

**CATALOGUE OF B.E. PROJECT**  
**REPORTS**

**BATCH 2014**

**BRANCH- INFT**

**ABSTRACTS**



**St. Francis Institute of Technology, Mumbai**  
**University of Mumbai**  
**2013-2014**

## *Introduction*

The Library and Information Resource Centre team is happy to bring out this catalogue listing B. E. Project Reports submitted by the 2013-14 batch students to the Institute. This document covers abstracts of 42 projects submitted by 2013-14 batch students and are listed in alphabetical order under each year by the project title. Each entry of the project provides the bibliographical details, such as authors (with Roll number), title, page numbers, year of submission, supervisor name and abstracts. Accession Numbers have been provided to enable the user to locate a specific entry in this catalogue.

Hope you will find this document useful. We would be happy to have your comments and suggestions, if any, to improve this catalogue further.

Updated on: 13/03/2015

Library and Information Resource Centre Team

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# **BIBLIOGRAPHIES OF PROJECT REPORTS- 2014**

## **1. TITLE: PROGAMER.**

**AUTHORS:** Bhanu Jalan 37  
Dinesh Gautam 34  
Jinesh Panchal 70  
Aakash Badiyani 08

**GUIDE:** Mrs. Shree Jaswal (Assistant Professor)

**ABSTRACT:** *Gaming has popularized to a great extent in today's generation, especially due to introduction of various gaming platform over pc, smartphones, Xbox, PS3 etc. We aim to create a platform on Android with high end graphics wherein users would get the fun experience of gaming while also get assured of learning and gaining knowledge of programming language java. The game will allow users to contest with their online friends, share scores, conduct championships etc. The users can solve small coding problems according to their preferences to proceed in the game. Coding will be done on the code editor provided along with the game. The system maintains complete users profile based on the skill levels acquired and also maintains rankings with various graphical charts. Thus this system makes learning a fun engaging experience.*

**ACC. NO.** PR896/402 INFT.

## **2. TITLE: ANALYTICS IN CRIME DETECTION.**

**AUTHORS:** Ruchika Bhanushali 10  
Mihir Kadam 41  
Raamesh Kandalgaonkar 45  
Niraj Khandhar 49

**GUIDE:** Ms. Winnie Main (Assistant Professor)

**ABSTRACT:** *Crime is something which happens every now and then. The rate of crime occurring in India is very high. In order to avoid or prevent all such crimes, we have built software which will help the user to analyze the situation of the given area with respect to crime. A Criminal database is a huge database. Moreover, analyzing this database without tool (manually) is quite a cumbersome task and time consuming. In this case, the FIR's in police station are too much in numbers and huge in sizes. With the help of this software, the actual time to analyze all the FIRs will reduce tremendously. Our project analyzes criminal database which will help users to detect particular pattern in crime. It will guide the users in analyzing*

which area will need more number of police or more security. Using our software application, the users can send awareness messages among the people by uploading the videos on YouTube. Also, for the awareness purpose the user of the application can send e-mails to the desired audience.

**ACC. NO.** PR897/403 INFT.

**3. TITLE:** AUTHENTICATION SCHEME FOR SESSION PASSWORDS USING COLORS AND TEXTS.

**AUTHORS:** Mr. Amit Badheka (07)  
Ms. Anuja Bandekar (09)  
Ms. Gayatri Gopakumar (35)  
Ms. Kadambari N (68)

**GUIDE:** Ms. Joanne Gomes

**ABSTRACT:** *Textual passwords are the most common method used for authentication. But textual passwords are vulnerable to eves dropping, dictionary attacks, social engineering and shoulder surfing. Graphical passwords are introduced as alternative techniques to textual passwords. Most of the graphical schemes are vulnerable to shoulder surfing. To address this problem, text can be combined with images or colors to generate session passwords for authentication.*

*The authentication scheme for session passwords using colors and text authenticates the user by session passwords. Session passwords are passwords that are used only once. Once the session is terminated, the session password is no longer useful. For every login process, users input different passwords. The session passwords provide better security against dictionary and brute force attacks as password changes for every session. The proposed authentication scheme uses text and colors for generating session passwords.*

**ACC. NO.** PR898/404 INFT.

**4. TITLE:** OTP SECURITY OVER NETWORK.

**AUTHORS:** Pradnesh Jogwar (38)  
Neha Khair (47)  
Shraddha Sarkhot (75)  
Chirag Shetty (78)

**GUIDE:** Mrs. Vandana Patil

**ABSTRACT:** *Authentication is the process of verifying the identity of a user. OTP is a one-time password play a vital role for authentication to make it more secure. Alpha numeric password is encrypted and decrypted using AES. Bitwise Algorithm is used to hide the data in*

other data format which is understandable only to the sender and the intended recipient. One Time Password (OTP) has been introduced as an additional security feature by many Banks to protect your account from online fraud. OTP is a six digit code sent to customers on email ID registered with Bank. The bank if notices any unusual behavior by any user or any transaction it generates an OTP and request user to type it. This OTP on the bank side is first encrypted using AES algorithm. The output from AES is then applied to bitwise algorithm which converts it into another format. Then this is sent to the users email account. The user then has to decrypt the encrypted format into the normal format by software made by bank. The user then again has to send the text received from here into software that will use AES algorithm again to decrypt and get the original OTP. The user then enters this OTP to claim that he is an authenticated user

**ACC. NO.** PR899/405 INFT.

**5. TITLE:** Color Trend Forecasting.

**AUTHORS:** Utkarsha Gaunkar 33  
Joicy Samuel 39  
Mugdha Mathkar 57  
Saloni Mehta 58

**GUIDE:** Ms. Amrita Mathur

**ABSTRACT:** *By analyzing the limitations of Inventory management in Fashion Industry, we present a new approach to manage inventory and thus, enhance decision making based on Most Frequent Algorithm. In our project, we will extract patterns from sales data to find out the maximum sold items in terms of color, gender and season. Our approach first collects sales data from the user. Then this data is classified into three groups i.e. Dead Stock, Slow Moving and Fast Moving stock. We then apply the algorithm to each group to obtain the pattern of the highest selling product in terms of color, season and gender. This will help the decision-makers to manage inventory as per the sales in the past year. Our project will use SQL queries and Most Frequent Algorithm. Our approach is efficient and can generate useful patterns from large stock data.*

**ACC. NO.** PR900/406 INFT.

**6. TITLE:** M-GAS SEVA.

**AUTHORS:** Shweta Agrawal 02  
Rasika Khandaskar 48  
Purva Shinde 79  
Avani Vora 81

**GUIDE:** Prof. Grinal Tuscano

**ABSTRACT:** Conventionally, the LPG Gas providers provide their services either on the manual basis or by SMS booking system. While booking a cylinder by SMS a customer has to type the message in the specified format. Also the web portals do not give the complete information or say the basic information to the customers. Some of the company sites such as Indane, HP and Bharat Gas are complex and does not have proper GUI making it difficult for the user to search for the required information. It consists of the information of various products that the company provides. The user is not aware how to check the required information. To overcome this scenario considering only the delivery of gas cylinders & the bill of the connection we have developed an Android Application which would be comfortable for the customers to understand and use. The Android Application consists of various features which includes registration for new connection, booking for LPG cylinder, account updating facility, etc. Here we have developed an Android Application to provide in-depth services for gas agency of various companies using "M-COMMERCE". This application is highly beneficial for the customers of varied age groups. Even if someone does not know how to use a smart phone, he/she can take help of others and use the application easily. We have created this application is to provide the information about the services provided by the service providers, their benefits & how they can apply for it.

**ACC. NO.** PR901/407 INFT.

**7. TITLE:** Semi-automated tool for Relational Schema and Database normalization.

**AUTHORS:** Ashlin L Dias 22  
Gavin Ferreira 31  
Magnus Machado 55  
Larisa Pereira 73

**GUIDE:** Ms. Sonali Vaidya (Lecturer)

**ABSTRACT:** Database is an essential part of any software system today. Creating a database is a lengthy process consuming a lot of time and efforts. Moreover, the process of normalizing the database needs relative tools and expertise. Thus to eliminate these intermediate process, we have built a semi-automated tool, where one needs to simply draw the ER diagram and leave it to the software for generating relational schema and normalizing the database. Hence one requires less than the total time required to complete the database generation. Thus, improving the efficiency of the entire process and increasing the overall performance.

**ACC. NO.** PR902/408 INFT.

**8. TITLE:** Lossy Compression and Iterative Reconstruction for Encrypted Images.

**AUTHORS:** Khushboo Dattani (18)  
Ganesh Kadam (40)



Nikhil Kadam (42)  
Ajay Khavalia (50)

**GUIDE:** Ms. Purnima Tawde

**ABSTRACT:** *This work proposes a novel scheme for lossy compression of an encrypted image with flexible compression ratio. A pseudorandom permutation is used to encrypt an original image, and the encrypted data are efficiently compressed by discarding the excessively rough and fine information of coefficients generated from orthogonal transform. After receiving the compressed data, with the aid of spatial correlation in natural image, a receiver can reconstruct the principal content of the original image by iteratively updating the values of coefficients. This way, the higher the compression ratio and the smoother the original image, the better the quality of the reconstructed image.*

**ACC. NO.** PR903/409 INFT.

**9. TITLE:** SFIT APP.

**AUTHORS:** Puneet Bhat (11)  
Deepkumar Karia (46)  
Jay Thakar (80)  
Blaise Lopes (53)

**GUIDE:** Prof. Vaibhav Kala

**ABSTRACT:** *As mobile device become more like PC's they will come to replace objects we tend to carry around such as notepad, cameras, planners etc. In short we will be using them to accomplish our daily needs. There are many android application for colleges like Sikkim Manipal university, Amity University, which does not have better User Interface, better resources and better forums.*  
*In our daily college life we have to read notice boards for notices by colleges, we have to ask professors for the study materials, if there is any urgent notice some AUTHORS may miss to read notices. During festivals AUTHORS have to manually register for events, AUTHORS have to be notified manually. For any doubts student have to ask professors or can ask their friends.*  
*Our application SFIT APP falls into this category of Android application in which the AUTHORS can be in touch with college. Our application has better user interface for ease of use, it also has notification object to notify AUTHORS anytime. It also has Q&A object in which student can clear their doubts by chatting. It also got list of event option in which student can register for events going on in college. For student to download study material, we have added a Resource object in which the study material is uploaded for every class i.e FE,SE,TE,BE , in this way SFIT APP will be working.*

**ACC. NO.** PR904/410 INFT.

**10. TITLE:** GIS Image Analysis using Fuzzy Logic.

**AUTHORS:** Mr. Gareth D'souza (24)  
Ms. Pooja Kedar (43)  
Ms. Pratiksha More (63)  
Ms. Gauri Naik (65)

**GUIDE:** Mrs. Purnima Tawde

**ABSTRACT:** *Fuzzy logic is relatively young theory. Major advantage of this theory is that it allows the natural description, in linguistic terms, of problems that should be solved rather than in terms of relationships between precise numerical values. This advantage, dealing with the complicated systems in simple way, is the main reason why fuzzy logic theory is widely applied in technique. It is also possible to classify the remotely sensed image (as well as any other digital imagery), in such a way that certain land cover classes are clearly represented in the resulting image.*

*Geographical Information Systems (GIS) have been widely used today in various fields such as town planning military and land survey. These systems also have large scope in environmental analysis of a region. This system aims to address such environmental analysis issues by using GIS obtained images and image processing using of the same to classify them based on input colour channels and then carry out a further classification using fuzzy logic membership functions to determine land type namely vegetation ,crops ,urban and water bodies. Major advantage of this system is that it allows the natural description and comparison of past and present images to identify differences from an environmental perspective.*

**ACC. NO.** PR905/411 INFT.

**11. TITLE:** INTRUSION DETECTION SYSTEM USING DATA MINING.

**AUTHORS:** Nikhil Bhatewara(12)  
RinaldoLobo(52)  
VishwanMerchant(58)  
AmitMishra(60)

**GUIDE:** Mrs. Vandana Patil

**ABSTRACT:** *When securing a network, administrators have to use many different tools. For each operating system different applications have to be used, regardless they are doing exactly the same. Although functionality of them is similar, administrators have to spend a considerable amount of time to read documentation and learn how to use a new tool. To minimize this effort a specialized tool securing network and checking available services is needed. Intrusion Detection and Internet Services Failure Reporting System created to detect unwanted manipulations to computer systems, mainly through the Internet and checking all*

*active services in secure network. Intrusion Detection System is based on Signatures and anomaly method detection.*

*An IDS (Intrusion Detection System) is a security countermeasure. It monitors things looking for signs of intruders. The most important activity of the system is intruder detection. IDS monitor packets on a network and compare them with a database of signatures or attributes for known malicious threats. This is similar the way in which most antivirus systems detect viruses.*

*An Intrusion Detection System(IDS) is software and/or hardware designed to detect unwanted attempts at accessing, manipulating, and/or disabling of computer Systems, mainly through a network, such as the Internet. These attempts may take the form of attacks, as examples, by crackers, malware and/or disgruntled employees. IDS cannot directly detect attacks within properly encrypted traffic*

**ACC. NO.** PR906/412 INFT.

**12. TITLE:** DATA MINING AND BUSINESS ANALYTICS FOR DISEASE PREDICTION AND MONITORING MEDICINE STOCK.

**AUTHORS:** Saville Correia 17  
Clementina Gurjar 36  
Fiona Lobo 51  
Kajal Patel 71

**GUIDE:** Ms. Nazneen Ansari (Associate Professor)

**ABSTRACT:** *Data mining is defined as sifting through very large amounts of data for useful information. The overall goal of the data mining process is to extract information from a data set and transform it into an understandable structure for further use. Business intelligence (BI) is a set of theories, methodologies, processes, architectures, and technologies that transform raw data into meaningful and useful information for business purposes. BI can handle large amounts of information to help identify and develop new opportunities .In health care industry, data mining plays an important role for predicting diseases. The health care industry, or medical industry, is a sector within the economic system that provides goods and services to treat patients with curative, preventive, rehabilitative, and palliative care. The applications can greatly benefit all parties involved in the healthcare industry.*

*In this system, we predict the occurrence of diseases by studying the background and external factors related to patient. This prediction will in turn help the health organization to maintain proper stocks of medicine and other facilities. Classification based data mining techniques such as decision tree, Artificial Neural Network, Clustering are useful for this type of massive data.*

**ACC. NO.** PR907/413 INFT.

**13. TITLE:** VIDEO SURVEILLANCE USING HUMAN MOTION DETECTION.

**AUTHORS:** Zoosabali Maknojia 56

Aishwary Nagarkar 64  
Romil Shah 77  
Ashish Padvi 69

**GUIDE:** Mr. Rohan Borgalli (Lecturer) & Mr. Pramod Shanbhag (HOD)

**ABSTRACT:** *This project is carried out to determine some of the basic human motion detection algorithm that had been founded or developed or even researched previously. This project report would bring a presentation of these algorithms for researchers to get a basic idea of performing an algorithm for human motion detection systems. The main algorithm being discussed here are those implementing image subtraction methods and foreground-background segmentation approach. The project report also aimed to give readers a main idea of the architecture of a human motion detection system in applications. This report is also written with the purpose of documenting the design and development of a prototype human motion detection system. Here, we presented some basic ways to perform a human motion detection algorithm and also a new way to consider for background updating using spatial information instead of temporal. The experiments carried out to evaluate the performance of the prototype system are attempted and its results being recorded in this project as well. As a conclusion, this project is aimed to researchers interested to research on the basic idea of human motion detection algorithm using image subtraction and foreground-background segmentation techniques.*

**ACC. NO.** PR908/414 INFT.

**14. TITLE:** Traffic and Road Condition Estimation using Smartphone Sensors.

**AUTHORS:** Joel Monteiro 62  
Vinit Nair 66  
Vishal Nair 67  
Heston D'Souza 25

**GUIDE:** Prof. Grinal Tuscano

**ABSTRACT:** *Monitoring road and traffic conditions in a city is a problem widely studied. Several proposed techniques require dedicated hardware such as GPS devices and accelerometers in vehicles or cameras on roadside and near traffic signals. All such methods are expensive in terms of monetary cost and human effort required. We propose a non-intrusive method that uses sensors present on smartphones. We extend a prior study to improve the algorithm based on using accelerometer, GPS and magnetometer sensor readings for traffic and road conditions detection. We are specifically interested in identifying braking events - frequent braking indicates congested traffic conditions - and bumps on the roads to characterize the type of road. We evaluate the effectiveness of the proposed method based on experiments conducted on the roads in Mumbai, with promising results.*

**ACC. NO.** PR909/415 INFT.

**15. TITLE:** MINING OF EDUCATIONAL DATA TO ANALYZE AUTHORS' PERFORMANCE.

**AUTHORS:** Dhanraj Amin 04  
Hycinta Andrat 05  
Anish Anto 06  
Renita D'souza 27

**GUIDE:** Prof. Kalpesh Kubal (Lecturer)

**ABSTRACT:** *The main objective of higher education institutions is to provide quality education to its AUTHORS. One way to achieve this is by discovering knowledge for detection of abnormal values in the results sheets of the AUTHORS, prediction about AUTHORS' performance and so on.*

*The process includes making sure the data mining target, collecting the data, preprocessing the data, classifying and generating the classification rule. The results of data mining can guide teaching scientifically and improve the quality of teaching. In our project, we justify the capabilities of data mining techniques in context of higher education by offering a data mining model for higher education system in the university. We are using various data mining algorithms to accomplish our objectives.*

**ACC. NO.** PR910/416 INFT.

**16. TITLE:** IMPLEMENTATION OF MySQL SHARDING AND REPLICATION USING ZOOKEEPER.

**AUTHORS:** Aakash Chandarana (15)  
Nikita D'cruz (19)  
Melissa Fernandes (30)  
Chrysilda Lopes (54)

**GUIDE:** Mr. Mahesh Mali (Asst. Professor)

**ABSTRACT:** *Sharding is a type of database partitioning that separates very large databases into smaller, faster, more easily managed parts called data shards. The process of creating and managing duplicate versions of a database. ZooKeeper is a centralized service for maintaining configuration information, naming, providing distributed synchronization, and providing group services. All of these kinds of services are used in some form or another by distributed applications. To implement sharding mechanism in MySQL databases to improve the response time and management of the shards in a distributed environment using zookeeper. Zookeeper will identify the query and send query to the master which has shard related to the query. Every master will contain replica of shard present in other masters. This will redirect the user to the replica in case the master goes down, providing user with smooth access to the data. We will first shard the entire data and place it on different masters. Replicas of each shard will*

be placed on all the masters. When the user fires the query, zookeeper will analyse the query and direct the query to the necessary shard and answer the query. In case one master fails or crashes, Zookeeper will direct the query to other master to access the required replica .In this process the user will not be aware of any failure and will get smooth and fast service.

**ACC. NO.** PR911/417 INFT.

**17. TITLE:** PSYCHOMETRIC ANALYSIS USING EMOTIONS.

**AUTHORS:** Parul Dua 29

Clinton D'Souza 23

Shweta Kamdar 44

Shaun Bothelo 14

**GUIDE:** Mr. Mahesh Mali (Assistant Professor)

**ABSTRACT:** *In recent years, text mining and sentiment analysis have received great attention due to the abundance of opinion data that exist in social networks such as Facebook, Twitter etc. Sentiments are projected on these media using texts for expressing friendship, social support, anger, happiness etc. Sentiments extracted from the text can be useful in understanding the behavior of the individual. Sentiment analysis may also help an individual to introspect his improvement areas. This project focuses on the usage of text mining for psychometric analysis. The aim is to extract useful information, about users' sentiments and behavior's with the help of the input they provide. This paper deals with the problem of sentence level use for emotion extraction. With the help of the dictionary created, individuals can be classified into the various categories (such as confident, depressed, happy etc.) based on the text extracted from the input.*

**ACC. NO.** PR912/418 INFT.

**18. TITLE:** AUDIO BUS GUIDE.

**AUTHORS:** Charita Almeida

Priti Mhatre

**GUIDE:** Ms. ULKA PADWALKAR

**ABSTRACT:** *Our project "Audio Bus Guide" basically guides people to get around big cities while travelling through buses. It is an android application that is basically developed for people who travel by bus. The basic idea is to help the people to get the buses of the locations where they desire go by just speaking our source and destination through their handset. It is a convenient application for all the android users that is going to give enormous comfort to people who use this application. We have seen that many times this happens that many people who travels by buses sometimes doesn't know the exact bus number which they can take to reach their destination. So they try to ask their fellow travelers who are waiting along with them*

on same bus stop. But many times this happens that they don't get proper response or even wrong information which adds to their problems. So our application is useful for them and as it is an android based application so wide range of users can use it as android phones are cheaper nowadays.

**ACC. NO.** PR913/419 INFT.

**19. TITLE:** AN XML CONTEXT-DRIVEN SEARCH ENGINE.

**AUTHORS:** Agnes Sunny 01  
Movina D'souza 26  
Veronica D'souza 28  
Shruti Patil 72

**GUIDE:** Mr. Mahesh Mali (Assistant Professor)

**ABSTRACT:** *In our project, we are implementing a search engine that uses context-driven techniques for answering XML keyword-based queries as well as Loosely Structured queries. A non-context-driven XML search engines build relationships among data nodes based solely on their labels and proximity to one another while overlooking their contexts of their parents, which may cause these engines to return faulty answers. So our project focus on overcoming these faults of non-context-driven XML search engines by building an XML context-driven search engine which answers XML Keyword-based queries as well as Loosely Structured queries by using the basic concept of how a data element context is determined by its parent, so we treat each set of elements consisting of a parent and its children data elements as one unified entity, and then use a stack-based sort-merge algorithm employing context-driven search techniques for determining the relationships between the different unified entities and thus get more accurate result.*

**ACC. NO.** PR914/420 INFT.

**20. TITLE:** Medical Assistance System.

**AUTHORS:** Nirav Desai 21  
Mihir Sanchala 74  
Nisarg Shah 76

**GUIDE:** Mr. Bhalchandra Gokhale

**ABSTRACT:** *In today's world where technology has progressed with the lightning speed, there is a need to create an electronic health platform, delivering 360-degree health services and products. Medical Assistance System is an example of such a platform. Its deployment will prove really useful for those who seek to keep their health in check at the comfort of their home.*

*This medical support system will help any user in getting a detailed report of their current health status and keep track of all the medicinal problems that have been faced by them as well as their other family members and use this data to generate a report using data mining algorithms. Therefore this system will not only save time in today's hectic world but provide all round access to the service.*

*Our project aims at improving the medical assistance to patients in remote areas or for patients having no access to doctor or in case of emergency. It provides medical supporting system which registers the details of patients and doctors. In case of emergency registered patients or unregistered patients are provided with medical helpline services depending on the severity of the problem the patient suffering from. It also includes online help for common questions asked by customers or patients about their health life.*

*As the this project is one of its type in India we try to explore this opportunity to enhance the medical system which in future may prove helpful for people of India specially people living in remote areas.*

**ACC. NO.** PR915/421 INFT.

**21. TITLE:** INDIAN PHOTOGRAPHY EDITION.

**AUTHORS:** Palash B Gandhi 31  
Raj Bhat 13  
Clinton D'cunha 19  
Frigen Dabre 80

**GUIDE:** PROF VAIBHAV KALA

**ABSTRACT:** *Textual passwords are the most common method used for authentication. But textual passwords are vulnerable to eves dropping, dictionary attacks, social engineering and shoulder surfing. Graphical passwords are introduced as alternative techniques to textual passwords. Most of the graphical schemes are vulnerable to shoulder surfing. To address this problem, text can be combined with images or colors to generate session passwords for authentication.*

*This scheme authenticates the user by session passwords. Session passwords are passwords that are used only once. Once the session is terminated, the session password is no longer useful. For every login process, users input different passwords. The session passwords provide better security against dictionary and brute force attacks as password changes for every session. The proposed authentication schemes use text and colors for generating session passwords.*

**ACC. NO.** PR916/422 INFT.

**22. TITLE:** HOME AUTOMATION SYSTEM (USING VOICE COMMAND).

**AUTHORS:** Milbro Fernandes 10  
Alag Pereira 34



Brion Pereira 35  
Rihan Pereira 41

**GUIDE:** Ms. PurnimaTawde

**ABSTRACT:** *With emergence of technology the need of integrating these techs with our daily life is increasing. Mobile phones are converted into smart phones. Pc's are getting smarter etc. Personal assistant has also come in usage with Apple's SIRI and Google Now. Apart from this the Smart home concept is also emerging. There are many Automation systems for homes available in market. But these systems are mostly expensive and are rare to find in common market.*

*As an attempt to contribute towards this concept of smart homes we are coming up with an idea – HOME AUTOMATION (Using Voice Commands and Web Service). As we Know there are some similar types of product available in market but these products are expensive and are not meant for common people or instead Homes are to be developed keeping this products in mind. Whereas there are almost no product which is available that helps in making your home smart irrespective its structure.*

*The need of creating efficient, more user's friendly and more cost effective model has being our motto. In this Home Automation System we are going to use voice command as an input to the system and the system will control our home appliances for us. It's like talking to personal assistant and telling them to do a job for you, in this case its operating your home appliances. We think that this system would be a good alternative to the expensive product now available.*

**ACC. NO.** PR917/423 INFT.

**23. TITLE:** UNIVERSE the Convenient Computing.

**AUTHORS:** Chirag Lathigara 17  
Someshankar Ghosal 12  
Devansh jani 13  
Anurag Joshi 15

**GUIDE:** Winnie Main (Assistant Professor)

**ABSTRACT:** *Universe is a complete Desktop Operating System (OS) which will give support to all types of file systems including file systems with extension .exe, .tar.gz2 and .gz3 and Solaris file system also MAC operating system. It is a pure O.S for the convenience of the user like a middleware that can translate and run all types of file system on all operating systems. This project aims to integrate all file system implementations in one OS, through which user has a convenient way to use OS without being concerned of how the files will be executed. The Main objective of this project is to provide Standalone Operating System which includes all the functionalities of normal operating system and provide a compatibility layer which supports all file systems. This project will include all features of normal OS like Boot Loader to File Explorer and Complete Executable Environment. This is a revolutionary idea because all kernels*

*implemented on different O.S are different like monolithic and microkernel etc. This system facilitates communication between them though it is difficult to implement.*

**ACC. NO.** PR918/424 INFT.

**24. TITLE:** i-BUSINESS.

**AUTHORS:** Vinit Mehta 21  
Nikunj Sanghavi 59  
Sagar Sanghvi 60  
Chirag Sapra 61

**GUIDE:** Mr. Vaibhav Kala

**ABSTRACT:** *The advent of the i-Business application has made it possible to book order from an android enabled handset independent of the user's location. This requires the handset to have an active GPRS connection during the entire process from viewing the catalogue till providing the confirmation. It is important that the people involved in the order booking process have access to the most up-to-date version of the catalogue, kept vigilant on the various offers and their requests must be served fast in real-time. In this project we propose a application for viewing and ordering from the catalogue. This methodology is developed for the i-Business – Order Booking System project which aims to automate the processes of ordering, search different product from different company with preferences, view product reviews, product sells statistics of shop.*

**ACC. NO.** PR919/425 INFT.

**25. TITLE:** Automated Project Cost System.

**AUTHORS:** Rohan S. Shirodkar 73.  
Pallavi Sah 55  
Piyush Kukadia 16  
Ryan Pinto 46

**GUIDE:** Mrs. Grinal Tuscano (Assistant professor)

**ABSTRACT:** *Automated project cost system is software which enables any user to input the exact cost which occurs while dealing with any project. It is a systematic approach of storing all the project cost and other details related with the project. The software is a licensed one and is a property of BLUESTAR InfoTech Pvt. Ltd. The software aims at bringing all the erroneous type of software available in the market down and getting the optimal results to the clients by using this software. APCS is easy to use software which involves simple mechanism to do things at the most optimal range with a high level of accuracy and low probability of error occurrence.*

**ACC. NO.** PR920/426 INFT.

**26. TITLE:** EASY EXPLORAR.

**AUTHORS:** Nithin Xavier 23  
Ryan Lopes 18  
Kenneth Pereira 37  
Manoj Pawar 33

**GUIDE:** Prof.Ms.Shree Jaswal

**ABSTRACT:** *The whole idea how operating systems are designed is constantly changing. Different companies always strive to make their operating system more interactive and user friendly, along with keeping it simple. This is not a very easy task to be done, since operating systems involve various aspects such as the look of the icons, the browsers, etc. In this project we change the way in which we view files. The conventional thumbnail allows us to get a very brief knowledge of what the particular folder contains. Easy Explorer allows us to view more detail of the contents of the folder by a simple mouse hover. It allows us to do so without having to open the folder at all. In this project we make use of an open source explorer. Application of this open source explorer allows us to make the whole interface of an operating system more interactive and interesting. The necessary changes would be made in the main source code of open source explorer and thus giving us our final product 'Easy Explorer'. Easy Explorer would support media files like images, music and video. An additional 3 dimensional preview too would be there for viewing image files. The Easy Explorer system to be developed consists of an option where in the user can choose whether he wishes to view static preview of media files or dynamic previews.*

**ACC. NO.** PR921/427 INFT.

**27. TITLE:** Prediction of missing item-sets in a shopping cart.

**AUTHORS:** Ms. Kruti J. Rawal (Roll No: 51)  
Mr. Priyank P. Rege (Roll No: 52)  
Mr. Reynold F. D'mello (Roll no: 05)  
Mr. Milan S. Sidhapura (Roll no: 74)

**GUIDE:** Mr. Balchandra Gokhale (Lecturer)

**ABSTRACT:** *Identifying segments of customers and their behavioral patterns over different time intervals, is an important application for businesses, especially in case of the last tier of the online retail chain which is concerned with "electronic Business-to-Customer relationship" (B2C). This is particularly important in dynamic and ever-changing markets, where customers are driven by ever changing market competition and demands. This could lead to the prediction of 'churn', or which customers are leaving the company's loyalty. Also, the provision*

*of customized service to the customers is vital for a company to establish long lasting and pleasant relationship with consumers. It has also been observed that keeping old customers generates more profit than attracting new ones. So, customer retention is a big factor too. So, there is always a trade-off between customer benefits and transaction costs, which has to be optimized by the managers. The purpose of this system is to study, implement and analyze various Data-mining tools and techniques and then do an analysis of the sample / raw data to obtain a meaningful interpretation. Some of the data mining algorithms that have been used are vector quantization based clustering algorithms, and then an 'Apriori' based Association rule mining algorithm. The first ones are aimed at a meaningful segregation of the various customers based on their RFM values, while the latter algorithm tries to find out relationships and patterns among the purchases made by the customer, over several transactions. Existing research in association mining has focused mainly on how to expedite the search for frequently co-occurring groups of items in "shopping cart" type of transactions; less attention has been paid to methods that exploit these "frequent itemsets" for prediction purposes. This system contributes to the latter task by proposing a technique that uses partial information about the contents of a shopping cart for the prediction of what else the customer is likely to buy. Using the recently proposed data structure of item-set trees (IT-trees), we obtain, in a computationally efficient manner, all rules whose antecedents contain at least one item from the incomplete shopping cart. Then, we combine these rules by uncertainty processing techniques, including the classical Bayesian decision theory and a new algorithm based on the Dempster-Shafer (DS) theory of evidence combination.*

**ACC. NO.** PR922/428 INFT.

**28. TITLE:** Total security for system authentication.

**AUTHORS:** Ankit Salian 58  
Abhishek Shetty 68  
Bhagyesh Suryavanshi 75  
Milind Wadhvana 79

**GUIDE:** Mr. Bhavesh Pandya (Assistant Professor)

**ABSTRACT:** *In this paper [5], A highly severe menace to any computing device is the impersonation of an authenticate user. The most frequent computer authentication scheme is to use alphanumerical usernames and passwords. But the textual passwords are prone to dictionary attacks, eves dropping, shoulder surfing and social engineering. As such, graphical passwords have been introduced as an alternative to the traditional authentication process. Though the graphical password schemes provide a way of making more user friendly passwords, while increasing the level of security, they are vulnerable to shoulder surfing. To address this problem, text can be used in combination with the colours and images to generate the session passwords, thereby making a stronger authentication means. In general, session passwords are those that can be used only once and for every new session, a new password is engendered.*

*This paper [7] describes a method of implementing two factor authentication using mobile phones. The proposed method guarantees that authenticating to services, such as online banking or ATM machines, is done in a very secure manner. The proposed system involves using a mobile phone as a software token for One Time Password generation. The generated One Time Password is valid for only a short user defined period of time and is generated by factors that are unique to both, the user and the mobile device itself. Additionally, an SMS-based mechanism is implemented as both a backup mechanism for retrieving the password and as a possible mean of synchronization. The proposed method has been implemented and tested. Initial results show the success of the proposed method.*

**ACC. NO.** PR923/429 INFT.

**29. TITLE:** ENHANCING TEACHING AND LEARNING PROCESS USING DATA MINING AND LEARNING ANALYTICS.

**AUTHORS:** Avalon Saldanha  
Tejas Masurkar  
Viral Panchal  
Darshan Parekh

**GUIDE:** Ms. Nazneen Ansari (Assistant Professor)

**ABSTRACT:** *Data mining is defined as sifting through very large amounts of data for useful information. The overall goal of the data mining process is to extract information from a data set and transform it into an understandable structure for further use. Learning analytics is the field associated with deciphering trends and patterns from educational big data, or huge sets of student-related data, to further the advancement of a personalized, supportive system of higher education. The aim of this project is to improve the teaching and learning process of engineering colleges. This project is designed with the idea to evaluate AUTHORS and teachers perceptions on innovative teaching methods along with regards to various engineering subjects. Research clearly shows that disseminating innovations is necessary, but not sufficient to stimulate teachers to change their teaching practices in the right manner. Hence, a compelling assessment result is very important component to review various mythologies by both the teacher and the AUTHORS. In this system, we will be suggesting various innovative teaching methodologies which will be implemented in the educational institution. Based on the feedback given on each innovation by both the teacher and the student, this data will be mined to give the innovative technique that is helps both the teacher and the student. Classification based data mining techniques such as decision tree, Artificial Neural Network, Clustering are useful for this type of massive data.*

**ACC. NO.** PR924/430 INFT.

**30. TITLE:** ONLINE RESTAURANT ORDER MANAGEMENT SYSTEM.

**AUTHORS:** Nikhil Gharge  
Meville Pereira  
Rossom Pereira  
Vedant Tandel

**GUIDE:** Mr. PRAMOD SHANBHAG

**ABSTRACT:** *Every restaurant has counter where you can place your order and then make the payment. So every restaurant needs an employee for taking the order and processing the payment. Labor rates are increasing every now and then and it is difficult to find employees, hence to solve this problem we plan to design an "Online Restaurant Order Management System". At present, information and communication technology has been brought to a number of businesses in order to make the process more convenient or add to their values. Restaurant management can be more efficient with the help of technology. Both the owner and the customer will find it more convenient and hence values will be added from the good impression and the efficient administration and management of the entrepreneurs. This project provides a cost effective solution to managing orders, revenue and inventory.*

**ACC. NO.** PR925/431 INFT.

**31. TITLE:** ONLINE TPO MANAGEMENT SYSTEM.

**AUTHORS:** Alfred Dmonte 06  
Glenn Ddoti 07  
Clinton Fernandes 09  
Prasad Pereira 39

**GUIDE:** Mr. Pramod Shanbhag

**ABSTRACT:** *Training & Placement Portal aims at providing the Facility to automate and simplify the process of registration and generation of list of eligible AUTHORS for placement. This system provides facility to TPO regarding placement like collecting student records, registering the suitable AUTHORS, to check the number and percentage of placed & unplaced AUTHORS, and important announcements to other departments. The whole work is automated as well as on intranet.*

**ACC. NO.** PR926/432 INFT.

**32. TITLE:** LIFELINE- AN ANDROID APPLICATION.

**AUTHORS:** Gloria Pereira 36  
Sneha Sadaye 54  
Drashti Shah 62  
Prachi Shinde 71

**GUIDE:** Miss. Winnie Main (Assistant Professor)

**ABSTRACT:** *In the world today, lots of people die due to loss and non-compliance of blood. To find the blood of matching group within a short period of time is becoming difficult. Statistics show that over 90% of maternal deaths occur in Asia and sub-Saharan Africa, with India alone accounting for 20% of such deaths due to shortfalls in supply of safe blood which has a particular impact on women with pregnancy and delivery-related complications and with severe life-threatening anemia. There are also deaths due to blood loss during casualties. 'LifeLine' is an android application that addresses this problem using various techniques, web and GPS services. The location based services provide powerful mechanism for better search, query and grouping services based on the requirements of user. The application would retrieve summarized data from a traditional database and display that information on an android device so as to aid the user in getting the information within short span of time. The features of this application are (1) finding drug stores, (2) finding hospitals present in vicinity, (3) finding nearest blood banks with blood components like platelets, plasma, double red cells along with whole blood and (4) registering potential donors.*

**ACC. NO.** PR927/433 INFT.

**33. TITLE:** ALLTALK™- A Windows Phone Messenger with Cross Language Communication.

**AUTHORS:** Royston Pinto 45  
Shruti Shetye 70  
Akhil Abraham 77

**GUIDE:** Ms. Sonali Vaidya (Lecturer)

**ABSTRACT:** *In day to day life, messengers or chatting applications provide facility for instant messaging over the internet. Exchange of messages takes place in universally used languages like English, French, etc. where both the users know how to communicate in a common language. Hence we have implemented ALLTALK™ which is a Windows 8 phone based chatting application which makes cross language communication possible using mobile programming and networking technology. This application will enable the communication between two persons irrespective of the language each user wishes to use individually. The various modes of communication available in this messenger are through text. Due to the best processing power provided among the available smartphones and high battery life we choose to work on windows 8 platform. We implement the sending and receiving of messages with the help of TCP sockets since it is widely accepted communication protocol and ensures lossless sharing of messages. This application provides a facility which enables service providers companies to provide customer care services to their customers in their native languages without the need of employees being skilled in various languages. Thus we have successfully eliminated the language barrier and enabled ease of communication through this application.*

**ACC. NO.** PR928/434 INFT.

**34. TITLE:** Web Usage Mining Using D-Apriori.

**AUTHORS:** Anuja Phadtare (42)  
Isha Shah (62)  
Naini Shah (63)  
Preethi Shetty (68)

**GUIDE:** Mr. Ajay Pandit

**ABSTRACT:** *The enormous content of information on the World Wide Web makes it obvious candidate for data mining research. Application of data mining techniques to the World Wide Web referred as Web mining where this term has been used in three distinct ways; Web Content Mining, Web Structure Mining and Web Usage Mining. E Learning is one of the Web based application where it will facing with large amount of data. In order to produce the portal usage patterns and user behaviors, this project implements the high level process of Web Usage Mining using basic Association Rules algorithm call D-Apriori Algorithm. Web Usage Mining consists of three main phases, namely Data Pre-processing, Pattern Discovering and Pattern Analysis. Server log files become a set of raw data where it's must go through with all the Web Usage Mining phases to producing the final results. Here, Web Usage Mining, approach has been combining with the basic Association Rules, D-Apriori Algorithm to optimize the content of the E-Learning portal. Finally, this project will present an overview of results analysis and Web administrator can use the findings for the suitable valuable actions.*

**ACC. NO.** PR929/435 INFT.

**35. TITLE:** 3D PASSWORD AUTHENTICATION SYSTEM.

**AUTHORS:** Dhanashree Dalvi 03  
Chandan Mamtora 19  
Bhavini Shingala 72

**GUIDE:** Amrita Mathur

**ABSTRACT:** *Current authentication systems suffer from many weaknesses. Textual passwords are commonly used. Users tend to choose meaningful words from dictionaries, which make textual passwords easy to break and vulnerable to dictionary or brute force attacks. Many available graphical passwords have a password space that is less than or equal to the textual password space. Smart cards or tokens can be stolen. Many biometric authentications have been proposed. However, users tend to resist using biometrics because of their intrusiveness and the effect on their privacy. Moreover, biometrics cannot be revoked. In order to overcome above flaws we propose method of 3D passwords. 3D password which is more customizable and very interesting way of authentication. The 3D password is a multifactor authentication scheme. The*



*design of the 3D virtual environment and the type of objects selected determine the 3D password key space. While registering into system, the 3D password GUI opens up. This is an additional textual password which the user can simply put. Once the user has been authenticated using textual password, a 3D virtual environment will open on the screen. This 3D virtual environment contains several objects or items with which the user can interact. The user is presented with this 3D virtual environment where the user navigates and interacts with various objects. The sequence of actions and interactions toward the objects inside the 3D environment constructs the user's 3D password.*

**ACC. NO.** PR930/436 INFT.

**36. TITLE:** CDR & TOWER DUMP ANALYSIS.

**AUTHORS:** Scarlett Dias 04  
Oza Sagar 24  
Tanvi Raorane 50  
Suchi Shah 67

**GUIDE:** Prof. Kalpesh Kubal

**ABSTRACT:** *Crimes are on a verge. Cell phones are being used as the contacting medium amongst the people committing these crimes. Cases like Bank Robberies, House breaks, looting of jewelry, murder by a gang are a few categories of cases that can be illustrated. In such cases the crime branch tries to hunt for the suspicious cell numbers from the tower dumps and CRDs .Thus the analysis of the records help in unfolding of the clues evidences in cases where no situational witnesses are present. Performing analysis of the same they try to drive an association amongst the cell numbers. But the tower dump comprises of a huge database of numbers. Analyzing these databases is a difficult and time consuming task. The aim of the project proposed is to make this task easier and generate results efficiently. Instead of analyzing these databases manually the software will automatically analyze the data and find association and links amongst it. Our project makes the task of analyzing of both CDR and Tower Dump data easy and efficient. It provides various functionalities which have been developed from the perspective of the end users (the police who will use this for analyzing the records).*

**ACC. NO.** PR931/437 INFT.

**37. TITLE:** MUSIC RECOMMENDATION SYSTEM.

**AUTHORS:** Sahil Parker 32  
Jessica Picardo 44  
Nandit Shah 65  
Payal Shah 66

**GUIDE:** Prof. Vandana Patil

**ABSTRACT:** *With growing popularity of the web-based systems that are applied in many different areas, they tend to deliver Customized information for their users by means of utilization of recommendation methods. The recommendation Techniques: content-based, collaborative and by means of genetic algorithm are used in existing systems. They recommend user those items which are based on past history of the user but user's intention is not focused. This paper proposes Genetic algorithm for recommendation by generating new mutations by providing optimized solution every time and which is based on user's preferences.*

**ACC. NO.** PR932/438 INFT.

**38. TITLE:** GLOBAL EMAIL CLIENT.

**AUTHORS:** Priyanka Buti 01  
Swamini Chaudhary 02  
Elroy D'souza 08

**GUIDE:** Mrs. Shree Jaswal (Lecturer)

**ABSTRACT:** *Electronic mail, commonly known as email or e-mail, is a method of exchanging digital messages from an author to one or more recipients. Modern email operates across the Internet or other computer networks. Some early email systems required that the author and the recipient both be online at the same time, in common with instant messaging. Today's email systems are based on a store-and forward model. Email servers accept, forward, deliver and store messages. Neither the users nor their computers are required to be online simultaneously; they need connect only briefly, typically to an email server, for as long as it takes to send or receive messages. Email facility is provided by Email Service Provider (ESP). ESP provides email servers to send, receive, and store email for other organizations and/or end users. An ESP may provide the service to the general public for personal email or it may provide the service only to its members (e.g. subscribers, employees of a business, college alumni associations, professional organizations, etc). The most common Email Service Provider includes Gmail, Yahoo, Hotmail, Rediff, AOL etc. Global Email Client aims at providing a single view for all the different Email Service Provider. Global Email Client consolidates emails from different service providers and provide its users a single login to view the emails from different ESP.*

**ACC. NO.** PR933/439 INFT.

**39. TITLE:** Library Management Application.

**AUTHORS:** Hardik Poojary 47  
Riddesh Ravindranath 53  
Ankit Saigal 56  
Jeffie Joseph 78

**GUIDE:** Bhavesh Pandya (Project Guide)

**ABSTRACT:** *The library management system that we are creating is a web application. This project will help the library staff to manage the activities in the library more efficiently. These activities will include issuing of a book by a student or by a member of the faculty, returning the book in the stipulated time, etc. One can also reserve a book via this application if he/she needs the same urgently and will not be able to reach the library for some reason. A unique feature of this application is that a notification will be sent to the student or faculty by the administrator just before the return date. Also the status of a book can be known i.e. a student who desires to issue a book that is unavailable can come to know who the holder of the book is and request him/her accordingly.*

**ACC. NO.** PR934/440 INFT.

**40. TITLE:** Web Application SQL Injection Preventer.

**AUTHORS:** Nikita Punyarthi 101092  
Nilam Jawal 12105  
Prathamesh Palande 101091  
Siddharth Prabhu 101090

**GUIDE:** Prof. Amrita Mathur

**ABSTRACT:** *Web sites are dynamic, static, and most of the time a combination of both. Websites need protection in their database to assure security. Many software systems have evolved to include a Web-based component that makes them available to the public via the Internet and can expose them to a variety of Web-based attacks. One of these attacks is SQL injection, which can give attackers unrestricted access to the databases that underlie Web applications and has become increasingly frequent and serious. In an SQL injection attack, an attacker might insert a malicious SQL query as input to perform an unauthorized database operation. This tool presents a new highly automated approach for protecting Web applications against SQL injection that has both conceptual and practical advantages over most existing techniques. From a conceptual standpoint, the approach is based on the novel idea of positive tainting and on the concept of syntax-aware evaluation. From a practical standpoint, our technique is precise and e-client, has minimal deployment requirements, and incurs a negligible performance overhead in most cases. We have implemented our techniques in the Web Application SQL-injection Pre-venter (WASP) tool, which we used to perform an empirical evaluation on a wide range of Web applications that we subjected to a large and varied set of attacks and legitimate accesses. WASP was able to stop all of the otherwise successful attacks and did not generate any false positives.*

**ACC. NO.** PR935/441 INFT.

**41. TITLE:** GamEd- AN EDUCATIONAL GAME FOR LEARNING.

**AUTHORS:** Anagha Narvekar (22)  
Noopur Parikh (31)  
Manjiri Phatarpekar (43)  
Anita Yadav (80)

**GUIDE:** Ms. Nazneen Ansari (Associate Professor)

**ABSTRACT:** *Games have been used throughout time as an instrument of instruction for all different aspects of life. Puzzles to learn logic, mathematical games to enhance basic math skills, and even reading games to increase reading ability have all been used successfully to teach children the basic skills that they will need in life. It logically follows, then, that using computer games is an effective way to teach computing skills. The benefits of teaching algorithms by games are numerous, beginning with its potential to reverse a growing trend of lack of computer science popularity, and continuing to provide a fun learning environment in which students can approach abstract topics in a visual manner. Learning should be fun. When a student is doing something that he deems as fun, he is able to grasp its concepts much more effectively, because he has a desire to learn more about it, and to work harder at it. There isn't a student in the world that would object to homework if it were a fun experience; instead they would yearn for more. Thus, we are building a game that will teach educational concepts from the students' syllabus as well as provide a good gaming experience. This game will allow students to enhance their knowledge and gain better understanding of the subject without them losing interest in the subject.*

**ACC. NO.** PR936/442 INFT.

**42. TITLE:** BLUETOOTH CHATTING SYSTEM.

**AUTHORS:** Nimish Paranjape 29  
Girish Pande 28  
Harikrishna Pal 25

**GUIDE:** Prof. Ulka Padwalkar

**ABSTRACT:** *Bluetooth chatting is an innovative approach to the mobile world. This application shows use of Bluetooth in terms of chatting. Means persons can chat via Bluetooth. The main midlet has just a list which has two values server and client. By selecting one of these two values, the corresponding instance is created. Midlet is used to initialize the connection. It does following thing at here. First, it starts the application and search the Bluetooth device. It sends the signal to the server class. Second, it can run, pause and stop the application. Third, it shows alert using set Alert function on every changing. Server class goes active when it go signal from the midlet class. It sends the hello world string with the string to the other devices. Client class works to respond the other Bluetooth device server.*

**ACC. NO.** PR937/443 INFT.

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