APPLY Experiment 2.   OOAD USING UML FOR YOUR TA (20 MARKS)
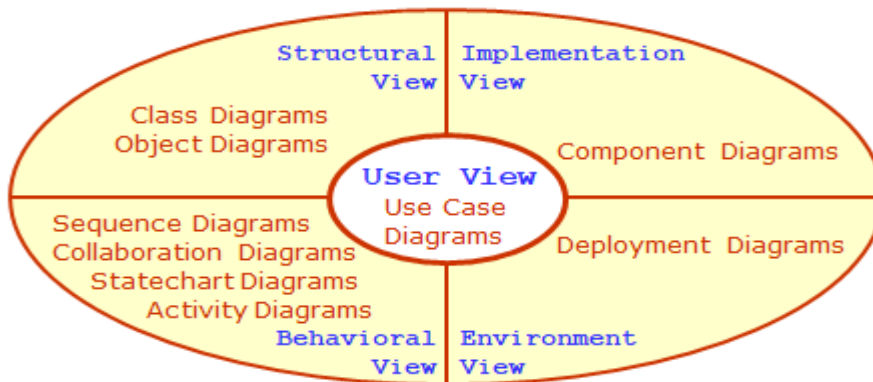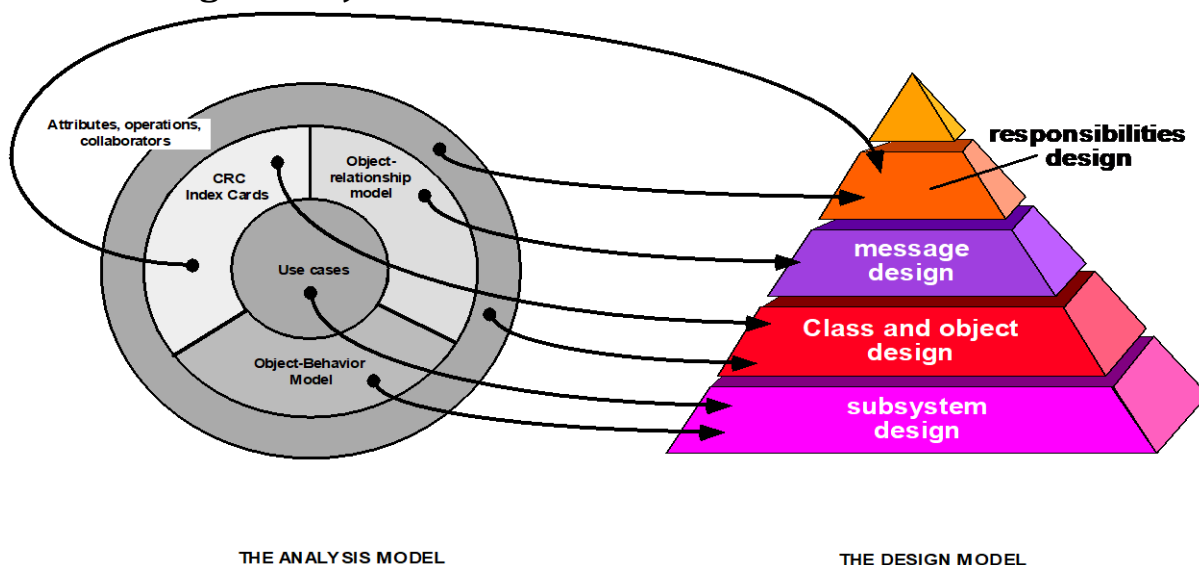
(i) Give structural view and   Behavioral view.
 (iii) Implement the project and illustrate implementation view.
(iii) Illustrate the environmental view with specifications.
Use the following dimensions for answering your experiment.

Map the analysis Model with design Model. Use the following dimensions for the design of object oriented software.

 Design the software architecture, algorithm and data structure design and authoring system for the given project.

Experiment No.2(TA CASE STUDIES)

Roll No.	Name	Topic
171071038	SAYALI MARUTI WAGH	Exam Cell Automation System
181070001	AGRAWAL YASH SATISH	Internet Based Discussion Forum
181070002	AJINKYA ANANT HAZARE	Dental Caries Detection System
181070003	AKSHAT NITIN SAVLA	Public Photography contest with Live Voting
181070004	AMBEKAR ADITYA KISHOR	Smart Cab System Using Barcode Scan
181070005	AMOGH KARANKAL	Clinic Management System
181070006	ANANTIM SUDARSHAN PATIL	Online Printed T-Shirt Designing System
181070007	WASNIK ANKUR DASHRATH	Career Guidance Project
181070008	BAN VEDANT BALASAHEB	Android Bluetooth Chat
181070009	BANDGAR SIDDHESH BALWANT	Image Search Perfection System
181070010	BHASHYA SHETH	Graphical Password to Avoid Shoulder surfing
181070012	DABADE KUSH TANAJI	Student Examination DataCard
181070013	DANDALE HARSHAL ARVIND	Cancer Prediction Using Data Mining
181070014	DESAI CHINMAY MAHENDRA	College Admission Predictor application
181070015	DESAI MITESH SANJAY	Detect irregular moving objects and tracking based on color and shape in real time
181070016	DHALKAR PARIJAT DEVENDRA	Internet Based Live Courier Tracking and Delivery System
181070017	DHOLAKIA SAGAR SUNIL	Human speed Detecction
181070018	DOSHI HARSHIL DHARMESH	Collective Face Detection
181070025	HUSAIN QASIM ALI SAIF	Search Engine using Web Annotation
181070026	ITANKAR PIYUSH	Online Court Room

	SHARAD	
181070027	JADHAV ROHIT RAMESH	The Cibil System
181070028	KALSHETTI ABHISHEK LAXMAN	Fingerprint Based ATM System
181070029	KANEGAONKAR SAURAV VIVEK	E commerce for Online Medicine Shopping
181070030	KAZI SAIF ASIF	Engineering College Automation and Scheduling System
181070031	KUNDURMUTT SAI SADASHIVA JAYDEV	Image Character Recognition
181070034	MANE ABHISHEK MILIND	Online Health Shopping Portal with Product Recommendation
181070036	MOHAMMED MEHDI ALIRAZA PATEL	Diabetic Retinopathy Detection from Retinal Images
181070037	NAVEEN NEHRU	Quality Checking Using Image Processing
181070038	NAYAK SIDDHARTH SATISH	Weather Forecasting
181070040	PANCHAL HEMISH JAYESH	Online Mobile Recharge Portal
181070041	PANCHAL YASHWIK RAJESH	Automated Canteen Ordering System
181070042	PANDEY SURENDRAKUMAR ANURUDDHAPRASAD	online Pizza ordering System
181070043	PANDHARE SANIL SHASHANK	Cloud based Local train Ticket System
181070044	PAREKH ARCHEEL PARESH	Online Visiting card Creation Project
181070045	PATKAR ADITYA KRISHNA	AI multi Agent Shopping system
181070047	PRASHAM PARAG GALA	Intelligent tourist System
181070048	PRATIK VIJAY BARAI	E Healthcare- Online Consultation And Medical Subscription
181070049	PREMSING MALESH RATHOD	Matrimonial Portal
181070052	RISHIV ARUN CHHABRIA	Online Law System
181070053	SANKALP VILAS GONGLE	Online Bakery Shop System

181070054	SANKHE ADVAIT MAHENDRA	Public News Droid
181070056	SARNAYAK DHANESH JITENDRA	Enhanced Library Management System
181070058	SHAH MOUNIL KAMLESH	Bikers Portal
181070059	SHAH PARTH RAKESH	Farming stock Trading application
181070060	SHENDE ANSHUL TUKARAM	College Selection Application
181070061	SHIVAMDHAR SHESHDHAR DUBEY	E- Authentication System Using QR code and OTP
181070064	SUNANDAN SHARMA	Online Loan Application and Verification System
181070065	TAILOR YASH RITESH	Video Survillance System
181070066	TANMAY SURINDRA BHAT	Online Diagnostic Lab Reporting System
181070067	TEJAS JHAMNANI	Education Assignment Dashboard
181070070	VAKHARIA PRIYESH RAJESH	Online Herbs Shopping
181070071	VICHARE ATHARVA AJAY	Cargo Booking Software
181070072	VORA ROHAN ROHIT	E- Learning System
181070073	YADAV VIRAJ MANOJKUMAR	Advanced Reliable Real Estate Portal
181070074	YOGESH RAHUL DESHPANDE	Efficient Doctor Patient Portal
181071011	CHAVAN SAKSHI RAJESHSING	Secure online Auction system
181071019	DURGE GARGI MANOJ	Online E-book Maker
181071020	GAMBARE SANJYOT RAMESH	Android Patient Tracker
181071021	GANDHI MONA BHUPENDRA	Railway Tracking and Arrival Time Prediction
181071022	GAWANDE RASIKA RAMDAS	Advanced Mobile Store Project
181071023	GUPTA RIYA RAKESH	Camera Motion Sensing Project
181071024	HRIM DEEPAK GANDHI	Military Access Using Card Scanning with OTP
181071032	LAD TANAYA JITENDRA	Face Recognition Attendance System

181071033	LEKURWALE DISHA RAMESH	Heart Disease Prediction
181071035	MANTRY PALAK ANAND	Improved Data Leakage Detection
181071039	NEHA MOHANDAS BHARSAT	Detecting E Banking Phishing Websites Using Associative Classification
181071046	PAWAR SHIVANI DEVESH	Automated Payroll with GPS Tracking and Image capture
181071050	RAIGADE SAYALI RAJENDRA	Fingerprint Based Voting System
181071051	RASIKA RAJU CHAVAN	Expression Identification using Image Processing
181071055	SARAKSHI SANJAY PHATE	Sentiment Based Movie Rating System
181071057	SHAH DEVANSHI NITIN	Crime rate prediction using K means
181071063	SHREYA DHANANJAY	Brain Tumor Detection Using Image Segmentation
181071068	THOKAL DEVARSHEE SANJAY	E-Governance Project
181071069	URANKAR KETAKI ANIL	Cloud Based online Blood Bank System
191070903	PATIL PRATHAMESH PRAMOD	Criminal Investigation Tracker with suspect Prediction
191070906	BABAR ANIRUDDHA VIJAY	Data Protection Using Hand gestures
191070908	RAUT ABHIJEET MAHENDRA	Filtering Political Sentiment in Social Media from Textual Information
191071901	NAIK ISHA MILIND	Secure Backup Software System
191071902	SRUSHTI RAJESH SHAH	Diagnostic Center Client Co-ordination System
191071904	DESHMUKH MANASI PRADIPRAO	Web Page Builder
191071905	BAGUL PRAGATI PRASHANT	Fake product review and removal of fake reviews
191071907	KALE GAURI SURESH	Sports Club Management
171070001	NITIN SHARMA	Online Travel Agency

Statement of Problems for above mentioned Topics

1)   Exam Cell Automation System

Currently Exam cell activity mostly includes a lot of manual calculations and is mostly paper based. The project aims to bring in a centralized system that will ensure the activities in the context of an examination that can be effectively managed. This system allows students to enroll themselves into the system by registering their names or by sharing details to admin. This is done by providing their personal and all the necessary details like Name, email, examination, semester, etc. The provided details are then entered by admin into the system to create their hall tickets and also creates login id and password for them. After creating the hall ticket, the system mails the link of soft copy to every student who have registered. Students containing link in the mail can view and print the hall ticket and also can login into the system using login id and password to modify or update their details like Phone number, email-id, etc. Admin is also responsible for generation of mark sheets for every registered student. There will be total three to six semesters where each semester contains maximum seven subjects. Admin can enter the marks of every student into their respective mark sheet using the system's GUI or via Database entry. Every student mark sheet will be created and printed separately. Thus on a whole it serves as a complete automated software which handles the every tedious and complex process handled during the examination times by the exam cell of a college.

2)   Internet Based Discussion Forum

Student centered learning and the creation of student centered spaces online are gaining credence in educational settings. We know that effective learning requires access to social and academic networks for both study material and emotional support; as such, online communities can offer a holistic knowledge construction, support mechanism, and recognize that affective activity is effective. Social forums, often called 'Virtual Cafes' or 'Common Rooms' can be set up for courses or for programs, depending on the student need. These spaces provide students to come together and discuss unlimited topics, including social activities and educational ideas. They are supportive spaces for students, most successful with large first and second year courses where students would not otherwise have the opportunity to communicate with others outside their own tutorial group. There are four entities will have the access to the system as follows admin, teacher, Student, Alumni. Admin manages the system by approving the threads added by the students, teachers and alumni. Admin can view all the threads and can mark a post as favorite, which will be listed at the top of all the discussion forums. Teacher, Student and Alumni need to register himself or herself by filling up basic registration details and create

a valid login id and password. All the entities have to login with their valid credentials in order to access the system. System allows teachers, students and alumni to create a thread/post which will be displayed among themselves and start a discussion be commenting/replying and also can like a thread/post.

3) Dental Caries Detection System

Dental disease can be detected using image processing. Image contains noise and other environment interferences. Here we proposed a method to detect dental caries from image. Images can be analyzed manually but may prone to error and time consuming. Diagnosis of dental diseases is conventionally carried out with the help of radiographic films. As a result of noise and other environmental interferences, use of radiographic films introduces errors. This system will help dental practitioners to identify the caries with ease. Here we make use of MATLAB and it performs caries detection. We used image pre-processing phase for accurate result. Image is prone to noise and other environmental interferences so we used many image pre-processing steps to remove noise and other methodology to detect caries accurately. Image Segmentation is used to detect dental caries so system can separate caries from tooth. It would be easy and accurate to detect caries. If caries are not detected, tooth is definitely healthy. We used image processing methodology to track caries. Finally based on the connected component, system detects caries. This system involves image processing steps and detection of dental caries.

4) Public Photography contest with Live Voting

We usually come across areas where a photographer can show his skills and win some award, but it was not properly portrayed. Using our System Admin / can conduct contest based on a topic. Admin can Choose the winner by 2 ways, No of Like on Photograph, Or Admin can directly select the winner. Admin can remotely view the images through, and select for best one, Photographer can register them self to this, so that they get notification of the completion (By Mail or SMS), Photographer's will be notified One week before the contest, If entries exceed the required, admin will first select top images and then users will vote for best one, One User will be allowed to vote for 3 photos only, Winner of the contest will be notified by (Mail or SMS), The role of admin is to check that images belong to that photographer only, and he has not taken it from other sources

5) Smart Cab System Using Barcode Scan

Smart Cab Barcode is a system that provides better service for Cab Drivers as well as Passengers. By using smart cab barcode, you can travel and pay using your travel card and all the payment will be done using this card. Here, we have an Admin who can register Drivers to this system by feeding details and his image into the system. Admin will also

register users using his details and image into the system he will get a unique code and traveler's card with this unique code, using which he can pay in future. Admin also has rights so add balance into the users account and he can view all details of User and Driver. Here, driver's role is to just scan the user's card and enter the amount and pick-up and drop location and that amount will be deducted from user's account and added into the driver's account. Driver would be able view his transaction history even for specified day. User can add balance into his account using online payment and also he can view details of his travel history.

6)   Clinic Management System

The project clinic management is a software developed to simplify the communication process between the doctor and the receptionist. The software would be operated by two admins one is doctor and the other is receptionist. Receptionist would be responsible for assigning token numbers to the patient visiting the clinic and save it in the database along with their details. These token numbers along with respective patient details are sent to the doctor. The doctor can thus view patient details and after checking up the patient, the recommended medicines for the particular patient are fed into the database by the doctor and are sent to the receptionist. The receptionist can then generate bill and feed into the database. The system also maintains patients history so that doctor or receptionist can view them anytime. The system can thus reduce complexity in maintaining patient's records.

7)   Online Printed T-Shirt Designing System

Online Printed T-Shirt Designing will have registration for new Users and login for Members. This software will have Admin Login which will check for new requests and orders, Member Login in which they can create customized designs using a wide range of Colors & Design, and can even place bulk orders for the same. The system first allows users to select tshirt design. After that the user may choose the desired color. The net step allows users to choose designs and text to be printed on the t-shirt. After the user finalizes the cost of design is calculated and the user may pay online for it. This Ordered T-Shirt will be delivered to their door steps. The Admin Login will accept requests to check design, approve Order, and create bills.

8)   Career Guidance Project

A Career Guidance System where students can see various career opportunities, the system shows various fields available after 12th, for graduation and also fields available after graduation. It also lists various colleges available where students can search colleges by their courses. Next the system allows users to give a test. It is actually a series of tests of various general questions. After test completion a score is calculated for each test. Based on those results the system manipulates and calculates the best career for that user. This result is then emailed to that user. The system also consists of an admin module. The admin can login to the system and enter colleges along with their specifications. The system also includes an ebooks page. Here user may click to read career guidance ebooks in their browser

9) Android Bluetooth Chat

The project Bluetooth Messenger is a system developed on android that will enable the users to create profiles and chat with the server with the help of the device's Bluetooth. Using the system one can create a profile, update their status message and even add a profile picture. The system requires both the device to be connected via Bluetooth. Every user can chat with this profile and can even transfer text files from one node to another. The communication process that the system exhibits is one-to-many that means users can only chat with the server and not with other users. Another useful feature of the system is that it maintains all the chat history so one can view it whenever required.

10) Image Search Perfection System

This innovative software system is built to effectively search images from an image database. While most of the images are stored and searched on the basis of Alt attribute associated with them this project allows users to search images based on the image pixels and pattern. The user does not need to store images along with an alt attribute or any text to define those images. Well these images are stored independent of any associated text data to describe the image. This software system allows the user to search for an image by uploading an image to search in the database and find the same or similar one based on the image itself. The software system detects pixel combinations and patterns in the target image and then compares this data to various images in the database using some sophisticated algorithms. This allows the user to effectively search for a particular image or similar images to it without typing any textual data to describe the image. This software system automatically detects the target image and accordingly gets results from the image database.

11) Graphical Password to avoid Shoulder Surfing

Since conventional password schemes are vulnerable to shoulder surfing, many shoulder surfing resistant graphical password schemes have been proposed. However, as most users are more familiar with textual passwords than pure graphical passwords, text-based graphical password schemes have been proposed. Unfortunately, none of existing text-based shoulder surfing resistant graphical password schemes is both secure and efficient enough. In this paper, we propose an improved text-based shoulder surfing resistant graphical password scheme by using colours. In the proposed scheme, the user can easily and efficiently login system. Next, we analyze the security and usability of the proposed scheme, and show the resistance of the proposed scheme to shoulder surfing and accidental login. The shoulder surfing attack in an attack that can be performed by the adversary to obtain the user's password by watching over the user's shoulder as he enters his password. As conventional password schemes are vulnerable to shoulder surfing, Sobrado and Birget proposed three shoulder surfing resistant graphical password schemes. Since then, many graphical password schemes with different degrees of resistance to shoulder surfing have been proposed and each has its pros and cons.

The alphabet used in the proposed scheme contains 16 characters, including 8 lower case alphabets from a to h & 8 numerical from 1-8. The proposed scheme involves two phases, the registration phase and the login phase, which can be described as in the following:

● Registration Phase:

The user has to set his textual password K of length L (4=L=8) characters, and choose one colour as his pass-colour from 8 colours assigned by the system. The remaining 7 colours not chosen by the user are his decoy-colours. And, the user has to register an email address for re-enabling his disabled account. The registration phase should proceed in an environment free of shoulder surfing. The system stores the user's textual password in the user's entry in the password table, which should be encrypted by the system.

● Login Phase:

The user requests to login the system, and the system displays a circle composed of 8 equally sized sectors. The colours of the arcs of the 8 sectors are different, and each sector is identified by the colour of its arc, e.g., the red sector is the sector of red arc. Initially, 16 characters are placed averagely and randomly among these sectors. All the displayed characters can be simultaneously rotated into either the adjacent sector clockwise by clicking the "clockwise" button once or the adjacent sector counter clockwise by clicking the "anti-clockwise" button once.

12) Student Examination Datacard

Each time we make an application or admission for a course or any other purpose to the university, we have to submit all the documents of all the previously appeared exams. Also the documents have to be attached with the form along with true copy done. All this requires lot of verification and also the form becomes complicated with so many documents attached. Sometimes the staff due to his negligence can make error in verification and can lead to errors. The "Student Examination Data Card system" will make a complete information detail about each individual student. It will contain all the examination results from his S.S.C. till date, which will include all government given examinations results in it. These results will be in the form of a scanned document. And the format will be very compressed one which won't require more storage space. The existing students can apply for the same and get their regarding card , and the one's in the S.S.C. currently can get their cards along with their results. The admin will get a list wise view of all the students with their UIN(unique identification number),which is unique for all the students. And he can view it also college wise , in that too department wise. The user of the card will get all the details of his exam results in the card, and also some other information about the courses completed or ongoing.

13) Cancer Prediction Using Data Mining

It might have happened so many times that you or someone yours need doctors help immediately, but they are not available due to some reason. The Cancer Disease Prediction application is an end user support and online consultation project. Here, we propose a web application that allows users to get instant guidance on their cancer disease through an intelligent system online. The application is fed with various details and the cancer disease associated with those details. The application allows user to share their health related issues for cancer prediction. It then processes user specific details to check for various illnesses that could be associated with it. Here we use some intelligent data mining techniques to guess the most accurate illness that could be associated with patient's details. Based on the result, the system automatically shows the result to specific doctors for further treatment. The system allows the user to view doctor's details. The system can be used in case of emergency.

14) College Admission Predictor Application

This project Engineering Admission Predictor System is a web based application in which students can register with their personal as well as marks details for prediction of admission in colleges and the administrator can allot the seats for the students. Administrators can add the college details and the batch details. Using this software, the entrance seat allotment became easier and can be implemented using a system. The main

advantage of the project is the computerization of the entrance seat allotment process. Administrator has the power for the allotment. He can add the allotted seats into a file and the details are saved into the system. The total time for the entrance allotment became lesser and the allotment process became faster.

15) Detect irregular moving objects and tracking based on color and shape in real time

Real time video detection allows user to scan through video frames and check for the desired rgb valued objects. Detect and track objects in real time. The steps are exceptionally straightforward:

- Take video frame from webcam
- Use separating by given color
- Discover objects by given size
- Discover greatest object

16) Internet Based Live Courier Tracking and Delivery System

Courier service providers usually have a very large network across countries. A courier goes through several places including distribution center, aeroplane, ship, road transport etc. At this time even the customer is conscious about where his package has reached. The customer can track his courier through a login where he may enter this courier number and track the location status of his package. Here we propose a dedicated courier tracking system where customers may check the status and location of his courier. Here every distribution channel including centre, airport terminal, rail, road terminal has a system operated by authorized people of that particular point of distribution. Each point of distribution has its login access. On login the person needs to make an entry of a package that reaches it. This data is directly uploaded to the main system that now keeps track of the latest location/status of the package through an active internet connection. The data stored on the server can now be used for live package status tracking by customers. Customers may login to the server in order to enter their unique courier tracking number. On entering the number system first gets the last recorded status of that particular package and shows this data to the user. The user may now track his package as and when needed. The system can be further improved by adding a barcode to every package so that every point just needs to scan the barcode instead of doing a manual entry of package number.

17) Human speed Detection

This speed detection system is used to detect the speed of a moving person in real time. This system uses video manipulation along with a frame differentiation algorithm to capture and detect the speed of a person. The system works as follows:

- The system captures videos with the help of a webcam or a recording device.
- Now this video is manipulated upon.
- A video is made up of frames. These frames are now separated.
- A frame detection algorithm now works on these frames. The algorithm stores pixel values for each frame.
- It then tracks the motion of the persons pixels as it moves from one side of frame to another through a set of frames.
- Since the frames move at a constant predefined rate, the number of frames required for the person to move from one end of frame to another determines his speed using some formula.
- Thus this system allows you to automatically detect the speed of a person using special algorithms and a simple web camera.

18) Collective Face Detection

This collective face detection project is capable of detecting faces by their names and identifying multiple faces in real time. The software system uses face detection algorithms to accurately identify and recognize faces in real time. We use a pc webcam to record real time video data and the system automatically detects and identifies faces in real time application. The collective face detection application is designed using C# and works as follows:

Application captures video data in real time.

- The user may bring his face in front of the camera and the system allows the user to get a snapshot of his face and enter his/her name.
- The system records this data and maintains it in its system.
- Similarly multiple users may record their data in the system.
- Now when the next time this system is activated it starts capturing real time video data again.
- As a previously registered user appears in the video, the system matches his face to previously stored records.
- The system then recognizes the user and displays the name of the user appearing in the video.

19) Search Engine using Web Annotation

When a user enters some words in a search engine, the system fetches automatically those pages which contain those words; this happens due to web annotation. Web annotation has

become one of the ongoing research topics. Here in this project we will apply web annotation on
pages or images. User must enter the image names he is searching for and the system will fetch those images which contain the same image annotation. Web annotation helps to create user friendliness. A web annotation which is associated with web resources such as web pages or images. With a Web annotation system, a user can add, modify or remove information from a Web resource without modifying the resource itself. Web annotations are visible to the users. We here proposed a system where users will enter search keywords of content or image. System will match the keyword with annotation if the system finds matching content or image. System will display those content and image to the user. We here used an effective algorithm to generate a query result page or search result records based on a user's query. Users can search any details faster. System is user friendly, any user can use the system.

20) Online Court Room

Online court room is a project implemented for conducting the trials of court online via chatting. Usually Indian court system takes long time to resolve a case as it requires many hearings. Both the parties, their respective counselor and the judiciary have to be present every day before court for the hearings. This becomes a little hectic for them and sometimes very annoying. Hence this project overcomes the issue of travelling and the hearings can be conducted over the internet. The judge, court reporter, both parties and their respective lawyers and witnesses are connected via Internet and the process can be carried out smoothly. The evidences can be produced to the judge by sending attachments. Any number of people can be connected into the chat conference. Also there is an online notepad provided where the reporter can record all the proceedings. Thus this project would saves time and resources.
This online system is developed on .net platform and supported by a Sql database to store user specific details.
Features:
- User and admin account: It has two accounts, member login and admin login. Judge is the admin and all others will be the members. Admin has the control of approving or disapproving the connection request.
- User registration: Users must first register them on the system.
- Chat process: Chat function is available so that members can also express their views in chat.

- Online Notepad: For recording the court proceedings and decisions the judge and the reporter are provided with this facility.
- IPC directory: There is a category available where all the laws under IPC are recorded so that the members can refer to it.

21) The Cibil System

A cibil system to keep tracks of peoples credit scores and dues. The system is similar to the real cibil system with an enhancement(Here the defaulter can view his status and can apply for improvement by good behavior). Our software system consists of admin login ,Cibil associates login and individual login. Here cibil associates are banks or companies who want to report faulty members. They may send faulty member data and this is passed on to the cibil admin. The cibil admin can view the data and approve it to be added after inspection. The system also consists of member login for which a member first needs to register. He can then check if he is listed in the black list and for what. The member may then apply for the removal along with the receipt of fine paid or other documents of proved good behavior. Thus the cibil system is a fully functional user friendly project

22) Fingerprint Based ATM System

Fingerprint Based ATM is a desktop application where fingerprint of the user is used as an authentication. The fingerprint minutiae features are different for each human being so the user can be identified uniquely. Instead of using ATM card Fingerprint based ATMs are safer and secure. There is no worry of losing an ATM card and no need to carry an ATM card in your wallet. You just have to use your fingerprint in order to do any banking transaction. The user has to login using his fingerprint and he has to enter the pin code in order to do further transactions. The user can withdraw money from his account. User can transfer money to various accounts by mentioning account number. In order to withdraw money user has to enter the amount he wants to withdraw and has to mention from which account he want to withdraw (i.e. saving account, current account) .The user must have an appropriate balance in his ATM account to do the transaction. Users can view the balance available in his respective account. The system will provide the user to view the last 5 transactions.

Features:
- Login: – User will login to the system using his fingerprint.
- Add Pin Code: – User has to scan finger and add pin code in order to do transactions.
- Withdrawal of cash: – User can withdraw cash by entering the amount he want to withdraw.

- Transfer of Money: – User can transfer cash to other accounts by entering the account number he wants to transfer.
- View Balance: – User can view balance which is available in his respective account.
- View Transaction: – User can view last five transactions.

23) E Commerce for Online Medicine Shopping

To provide computerized data storage facility. We can search easily any record. The new system requires less time for completion of any work. All the stock of medicine is update automatically in the new system. The system is user friendly and anyone having computer knowledge can handle it easily. Suitability for computerized data entry. Maintaining stock, Supplier information, Customer information & bill information are easy.

24) Engineering College Automation and Scheduling System

This project uses a web application concept to facilitate the departmental system in educational institutes. It uses the most reliable way of uniquely identifying students through website. Such type of web application is very useful in school as well as in college for daily attendance. Through this web application, we can keep a systematic record of students details, mark sheet, attendance and defaulters list. This project enables the easy way of maintaining class attendance with fewer efforts. The system also generates a brief report of attendance from the database according to subject-wise or date-wise as required. A defaulter list can be generated through system. Staff and HOD has the option to take a print of the reports and defaulter list thus generated. Hence, this project introduces a manageable and systematic approach of maintaining student and staff records.

25) Image character Recognition

Optical character recognition is conversion of images of typed, handwritten or printed text into machine-encoded text from image. Here we come up with system where pattern of the image is extracted and image text is recognized. System will recognize the pattern and will detect the characters in image. And will display those characters as output. Since image can be scanned photos or other images. Apply image pre-processing steps in order to extract only text from image. Image patterns will be stored in another directory. The query image is compared with image patterns stored in database. If image matches with the pattern stored in directory, system will apply algorithm to detect the text and display those text as an output. User will input the image. Image pre-processing steps are applied on images.

Unwanted objects are removed. Bounding boxes is applied to text extracted. These text are in image format. These images are converted to characters. Character and number images are stored in directory. The extracted text image are separated by bounding box. Each bounding box will contain each character or number. Each character or number is resized to image stored in directory. Extracted image and existing character image feature is compared. After comparison characters are detected. Finally detected characters are shown in text format.

26) Online Health Shopping Portal with Product Recommendation

This project helps the users in curing its disease by giving the list of fruits and herbs that the user should consume in order to get rid of its disease. The main purpose of this project is to help the user to easily search for herbs and fruits that will be good for the health of the user depending on any health issue or disease that he/she is suffering from. This system helps the user to reduce its searching time to a great extent by allowing the user to enter its health problem and search accordingly. The admin can add fruits and herbs to the system and its information. This system also allows the user to view the selected fruit or the herb's description which describes how the fruit or the herb will help to improve the user's health. This system also allows the user to place order which will add the items to the user's cart and make payment for the same. The system also includes a module in which the user can search for the hospitals depending on the name of the disease that user enters. Thus, this system helps to to get food products best suited for user health to a great extent. System can recommended some product to the user.

27) Diabetic Retinopathy Detection from Retinal Images

Diabetic retinopathy causes blindness. Diabetic retinopathy is one of the eye disease which is caused due to retinal blood vessel extraction. Diabetic retinopathy affects blood vessels in the light-sensitive tissue called the retina that lines the back of the eye. It is the most common cause of vision loss among people with diabetes and the leading cause of vision impairment and blindness among working-age adults. Here we proposed a system where we extract retinal blood vessels for detecting eye diseases. Manually extracting the retinal blood vessels is a long task there are many automated methods are available which makes work easier. Here proposed an algorithm to extract blood vessels from images. We used filtering methods to remove noise and environmental interference from image. Local entropy thresholding and alternative sequential filter methodology has been adopted in this system. We had implemented this system in matlab. User will input retina image into system. System will apply filtering techniques. Image pre-processing steps are applied to get accurate result. System will remove all unwanted objects from image. System will apply algorithm to extract retinal blood vessels. Finally system will detect diabetic retinopathy.

28) Quality Checking using Image Processing

To check quality of any product is tedious task and time consuming. Here we come up with a system where image of the product is extracted and system will check product quality. Here we will check quality of biscuits. As food product quality is checked with more concern. We will propose a computer vision based quality checking system for the biscuit. System will identify whether biscuits are cracked or not. We will use MATLAB and image acquisition toolbox and image processing tool for implementing this system. User will input image of biscuit and will apply image processing techniques to check whether the biscuits are cracked or not. We use many filtering techniques as images are prone to environmental interference. Biscuit quality parameter values are provided as input to the system. Based on these parameter system will recognize biscuits which are cracked or not. Image will be converted to grayscale image. Grayscale image is further converted to black and white image that is image is digitized to 0 or 1. Image will further undergo many image preprocessing steps. We will apply a methodology to check whether biscuit is in shape or not .if image is not in biscuit pattern, system will mark that biscuit as cracked.

29) Weather Forecasting

Weather forecasting is the application of science and technology to predict the state of the atmosphere for a given location. Ancient weather forecasting methods usually relied on observed patterns of events, also termed pattern recognition. For example, it might be observed that if the sunset was particularly red, the following day often brought fair weather. However, not all of these predictions prove reliable. Here this system will predict weather based on parameters such as temperature, humidity and wind. This system is a web application with effective graphical user interface. User will login to the system using his user ID and password. User will enter current temperature; humidity and wind, System will take this parameter and will predict weather from previous data in database. The role of the admin is to add previous weather data in database, so that system will calculate weather based on these data. Weather forecasting system takes parameters such as temperature, humidity, and wind and will forecast weather based on previous record therefore this prediction will prove reliable. This system can be used in Air Traffic, Marine, Agriculture, Forestry, Military, and Navy etc

30) Online Mobile Recharge Portal

Online Mobile Recharge is a web-based application developed in ASP.NET to recharge mobile phones. The project focuses at providing an easy and reliable platform to recharge mobile of any telecommunication company through online without buying recharge card. The registered users of the system can recharge their prepaid mobile phones from anywhere at any time.The proposed project for recharging mobiles developed to automate the mobile recharging process. It roots out the manual card system of recharge and introduces a new and genuine online recharge process. The online mobile recharge system is beneficial to both the admins and users. Using the online application, the admin can add new operators, tariff plans, offers and update or modify the existing tariff plans. It helps the users in creating their account, and then recharging the mobiles phones at any time.

31) Automated Canteen ordering system

The main aim of this project Canteen management system is to provide fast services to their college students, Staffs etc. Usually People have to go to canteen and order the foods and they have to wait in queue for a long time to get the orders. But with the help of this you just have to follow a very simple process to order your stuffs. And you need not to wait in the long queue. This website will provide the list of different menu list with different categories. User can select any item from canteen and can order for it by using debit card payment or wallet Payment. Wallet Recharging available with debit card details or admin can add amount in user's wallet. Users have to register with valid details and OTP which will get sent to their mobile number to login with canteen. Users also get recommendation for food items, Trending food items. Canteen Management system manages the all details of food items which contains name, description, image, price etc. Admin can view the confirm order and update the status of the order accordingly. Customer can check their balance, order history and able to delete the order according to order status.

32) Online Pizza Ordering System

You must have ordered your pizzas on phone for home delivery. The process seems easy to use but at times there is miscommunication. As there is no visual menu shown during a phone call, the employees have to repeat a lot of things again and again to the customers. It's a time consuming process which at times irritates customers. Also it takes a lot of time of the pizzeria staff. It would be much more comfortable for the customers to have an online pizza ordering system. It would be hassle free for users as they can select the pizzas they want and make payment for it. Also it will reduce the purchasing time for customers. Let us look at another benefit of using this system. Suppose I go to a pizzeria and make order. Even after ordering pizzas from their outlet, I have to wait at least 15 minutes for my order to be ready. Wouldn't it be much more convenient if I ordered my pizzas before using

a mobile app or an online system and then it will tell me the time by which I have to pick my order from their counter. It would be great for me as I don't need to wait for my pizza. I need to reach there only when my pizza is ready. In a nutshell, we can say that improved and efficient services are provided to the customers by the inclusion of internet in your business. As a business point of view it gives you an edge over your competitors.

33) Cloud based Local train ticketing system

Build a unique and easy to use local train ticketing project for efficient robust ticketing system using cloud infrastructure. The system allows users to register and as soon as they register an account with unique id is created in the system. User may book tickets for western, central and harbor lines and fare is calculated according to station distance. The cloud server allows for handling a large number of users using efficient computing power. It allows for efficient and fast computing for ticket costs to numerous users at a time. This balance is later deducted from user's account. User may later recharge his account through admin.

34) Online Visiting card Creation Project

Online Visiting Card Creation Project will have registration for new Users and login for Members. This software will have Admin Login which will check for new request and orders, Member Login in which they can create visiting cards from selected templates. Users may even create their own customize card design and place for order. User is allowed to choose a card design first and even the user name, company contact no and other fields to print on the card. After user finalizes the order he may proceed to payments page. This Ordered Cards will be delivered to their door steps. The Admin Login will accept request to check design, approve cards request, and create bill.
Modules:
Admin
- View New Order
- View All Orders
Member
- Register
- Fill Information required to create card
- Create Card by choosing Design (or by Uploading Its own design)
- Select No Of Cards
- Place Order
- View the order.
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35) AI Multi Agent Shopping System

An AI multi agent shopping system where system is fed with various product details. The system allows user to register and enter his details about a particular product. The system records all the details provided by user and checks for various items matching his search. The system comes up with a list of items best suited for user needs. The system also suggests other related items that the user may like. The system suggests these items which are likely to be bought by the user based on his previous requirements. The system handles multiple users at a time and provides accurate results.

Modules:

- User Registration: User can register on the system and get his online account on site.
- User Login: User can login to system and check various furniture data online.
- Multi Agent Support: The multi agent guides and supports user through his entire shopping experience and sorts out products as per user preference.
- Product Categories: The electronic products are arranged and can be viewed in categories.
- Add to cart: Users can add products to cart.
- Custom Search: User may do a custom search. System takes user requirements and show products matching it.
- Related products: System also shows related products likely to bought by user.
- User Decision Consideration: The agent gets products as per user preference but leaves the final decision up to the user before making any payments.
- Credit card payment: After total bill is calculated user can pay via credit card online.

36) Intelligent Tourist System

User Section:

- A login page will appear initially and the user has to login in order to continue
- If the user is new he/she will have to fill the registration form (username, password, email, firstname, lastname, etc.) current location of the user is obtained by the use of gps.
- These details will be submitted to an online database.
- After logging in, the user will get a screen with 2 tabs.

   Tab 1 :
   - it will contain a set of questionnaire which the user has to reply using radio buttons.
   - Based on the answer provided by the user, an intelligent tree algorithm will run and 1-3 best results will be provided from the online database

- Clicking on each result will provide the user with the description of spots/locations along with the pictures. The user will also have the option to view the exact location of the spot on Google map

Tab 2:
- This section allows user to make a manual search for various tourist locations by country, city area, name of place.

Admin Dashboard:
- Admin can operate the system from a web application through his browser.
- The system also consists of an admin dashboard where admin can login and enter places into the database with images, information, type of location and position on maps.
- Also admin can add edit the questionnaire for the user to fill.

37) E Healthcare- Online Consultation And Medical Subscription

The E consultation system is an end user support and online consultation project. Here we propose a system that connects patients to available doctors for online consultation and also allows doctors to email subscriptions in printable format. Our proposed system aims to build an environment where various patients needing doctor help at their home can consult doctors, send their images(for skin diseases/beauty related issues), chat with doctors, tell then their issues and discuss remedies. It also consists of a doctors login panel where doctor may login to the system and then see patient requests for consultations. The system then schedules those requests and serves them to doctor one after another. This allows doctors to chat with patients and discuss their problems. At the end of consultation the doctor may send them an online subscription in a printable word format so that they may directly print it and get medicines based on that prescription. The system will prove helpful to urgent cases that do not reach hospital, for emergency cases that do not have doctors in area, during late night emergencies and also for preliminary examination of patients.

38) Matrimonial Portal

This online matrimonial site is mainly developed to let individual find their potential matches for marriage according to their priorities set. This project allows the phrase 'Marriages are made in heaven' to be rephrased as 'Marriages are now made online'. This application allows to browse profiles of those who have registered themselves on this site. This allows individual to give their information such as Name, Gender, Religion, Caste, Marital status, Current salary, Occupation etc. This application also allows to upload photo

of the individual registering and also allows to upload kundali picture of the individual. The person looking for marriage can register and search for a profile that matches their requirement. This application allows individual to search by gender, age, religion, caste, marital status and also allows individual to view kundali which today is at highest priority in many caste. When an individual selects a profile which matches his or her requirement, it can the send an email indicating his or her interest and the email will be sent along with the sender's details. Thus this application allows individual to let others view its profile and also allows it to view others profile depending on the priority set.

39) Online Law System

There is a rise in the amount of crime in our country and most of the people are unaware of the criminal laws under IPC (Indian Penal Code). Therefore it becomes necessary to make the citizens aware of all kinds of laws put forth by our constitution against crime so that people come forward to register case against it. This project is executed especially for this purpose. The project online law system is a software system that contains all the laws of IPC so that people can come and search for the law for respective crime. The laws are categorized into different sections according to some keywords. There is also search option available where user can find or search according to his requirement by entering his query. There is also a facility available for users to get contact of lawyers. An enquiry form is also provided where user can ask their query and can also register case and the form is sent to the court authority. This project also contains information of all the respective courts in area for respective crimes.

40) Online Bakery Shop System

An online Bakery shop that allows users to check for various bakery products available at the online store and purchase online. The project consists of list of bakery products displayed in various categories. The user may browse through these items as per categories. If the user likes a product he may add it to his shopping cart. Once user wishes to checkout he must register on the site first. He can then login using same id password next time. Now he may pay through a credit card or cash on delivery. Once the user makes a successful transaction he gets a copy of the shopping receipt on his email id. Here we use user friendly interface to make the entire frontend. The middle tier or code behind model is designed for fast processing. And SQL serves as a backend to store bakery products lists data. Thus, the online Bakery shopping project brings an entire bakery shop online and makes it easy for both buyer and seller.

Modules:-
- User Registration: User can register on the system and get his online account on site.
- User Login: User can login to system and check various bakery items.

- Product Categories: The bakery products are arranged and can be viewed in categories.
- Add to cart: Users can add new items to cart.
- Custom Cake: User may order a custom cake as per his needed flavor, size, and shape on site.
- Dummy Credit Card Payment: After total bill is calculated user can pay via credit card online.
- Email confirmation: On successful payment a thank you message is sent to user.

41) Public News Droid

Public News Droid is an Advanced and Informative System helping the users to know the news, articles or any interesting things happening around their Locality. This System helps the local public to keep themselves up to date about the happenings around their vicinity or locality or in their City. There are 2 apps for this system to work; one for the admin and another for the user. The user is allowed to view the news only of his city while user can add news related to any city. Admin will monitor if any abuse or irrelevant or fake news added by any users and will take some action. The Front end used is Android Studio while backend as SQL Server. The user has to register into the system to use this app and can update his details as well.The latest news is shown first and so on, the user can also refresh the news resulting the latest one shown first and current news will be closed. The user can add a picture and a title related to the news.The user can use only 450 words to address the news. The Look and feel of reading the news is exciting and amazing as the system provides swipe to move to the next or previous news with transition effects.
- The user is updated with everything going around his city.
- The user is allowed to add minute to minute news which is not hyped but necessary that people should know.
- Easy to use.
- The news can be viewed only by registered users.
- The user can report to the admin if the news is not relevant or outspoken.

42) Enhanced Library Management System

This software project is a library management software system with all the basic as well as some innovative features for managing a library(ebook mailing and expiry notification via sms). It consists of a large database of various books available in the library. It also lists various books issued to respective readers. The system keeps track of all the books readily available and also the books that have been issued to various readers the time period for which the books have been issued. The system also handles ebooks database. If the reader needs an ebook, the ebook can be directly mailed to the client email id through the system

through a single click. Readers usually tend to forget the date to resubmit their library books so these books that have been issued to the reader and have reached their expiry date, an sms notification is sent to the reader automatically by the system to remind him about the book return date. Thus this innovative library management system provides an enhanced library functionality for this modern day world.

43) Bikers Portal

This is an online Bike and bike parts store that has listings of various bike along with their features. It also consists of Bike service Registration. This system allows user to buy bike, bike parts and inventory online. System allow user to check various articles submitted by user and even comment on them. Credit card payment facility is available. This system also consists of 'Rent a Bike' feature where user can ask admin for bike on rent. The visitor who visits the system must register himself by filling up personal details. After registration user can login to the system with his username and password in order to access the system. User can check various bike listing and can view each bikes feature. User can also check features of the bike as well as inventory parts, and accessories. User may select the product and can add the product to shopping cart. User can make payment through credit cards by clicking on credit card payment option. User must register himself for posting an article. This application is a combination of both sales and inventory management of the bike and bike parts. User can easily purchase bike or bike parts by using this system user does not have to come manually to shop to purchase the product. He can view the bike and bike parts in effective Graphical User Interface. User can view features of each product and can compare the products in order to purchase a better product.

44)   Farming stock Trading application

Farmer Trader Application is an android application developed for farmers/seller's and retailers. This application gives support to the village farmers who want to use this facility and who want to learn how it is possible and how they can use e-farming to sell their products.
If the farmers have knowledge of computer then they can directly register in the application and sell their product otherwise, they can contact company's computer professional who will schedule classes to teach them basics of computers and internet. They can know how they can open this site, register with it, and sell their products online etc. Farmer Trader Application is a project developed, which will help farmers from to sell their products to different cities through online system. Farmers can use this facility and can learn how it is possible and how they can use e-farming to sell their products. This application will act as unique and secure way to perform agro-marketing. The system allows farmers to sell their stock directly as a direct supplier throughout the country

without any middlemen so that, farmer earns optimum rates for his stock and also the customer gets it at lowered costs.

45) College Selection Application

The project college selector system is an application where students can find and enroll for different colleges that they want. This system is developed for students looking out for admission in best colleges. Also, it will help colleges to get more students being enrolled into the institute. The system will provide a list of colleges to students from which they can select their required college. On selecting the college, the system will ask for a test that student have to take to enroll themselves for admissions. Students have to take the test and the results are displayed on the spot to the student. The system also sends the result to respective colleges for evaluation purposes along with student's details. Hence the initial procedure of conducting an admission can be automated through this system. The system filters out the Colleges based on the Students merits where the student selects the course and gets a list of colleges based on Cutoffs and other validations. Students ca raise a query based on a particular course from a particular college and Admin will reply on that.
The features and modules of the project are as follows:

- Admin login: The system will be under sole control of an admin who provides inputs to the system. Admin will update or add/delete different colleges from the system.
- Student login: Any student can login into the system by creating an account. He has to provide all the required information that is needed by a college by filling out a form.
- College list and Selection: After creating a login into the system, each student can see a list of colleges along with their details. Student can select different colleges as per their preference.
- Test: On selecting a college, an online objective test will be conducted. After the test submitted by student the system calculates the test marks by comparing student's answers with original answers in database and provides result to students on the spot.
- Test result sent to colleges: The system sends these test results of every student to respective colleges selected by student via email. It also sends respective students details along with the result for evaluation purposes.
- Student feedback form: Students can also give their reviews about this system by filling up a feedback form in the system.

46) E- Authentication System Using QR code and OTP

In the proposed scheme, the user can easily and efficiently login into the system. We analyze the security and usability of the proposed scheme, and show the resistance of the proposed scheme to hacking of login credentials, shoulder surfing and accidental login. The shoulder surfing attack can be performed by the adversary to obtain the user's password by watching over the user's shoulder as he enters his password. Since, we have come up with a secure system schemes with different degrees of resistance to shoulder surfing have been proposed. In order to use this authentication system, user need to first register himself into this system by filing up the basic registration details. After a successful registration, user can access the login module where he/she need to first authenticate the account by entering the email id and password which was entered while registration. Once the email id and password is authenticated, the user may proceed with next authentication section where he/she need to select the type of authentication as QR (Quick Response) Code or OTP (One Time Password). Once the user selects the authentication type as QR Code, then system will generate a QR Code and send it to user's mail id over internet. If user select's OTP, then SMS will be sent on his/her registered mobile number. If the user passes the authentication, then system will redirect to the main page. The QR Code and OTP are randomly generated by the system at the time of login.

47) Online Loan Application and Verification System

Getting a loan is a very tiring and complicated process in India. It may take weeks even months for loans to get approved and people have to visit the loan office again and again for document and verification. Here our proposed project automates the loan process from both, bankers as well as customers side. Here customers may see various loans provided along with rate of interest and required documents. Here once the customer fills basic enquiry form, it reaches the bank server he gets a login id password.. The server administrator now can check it and select weather to go forward or reject the candidate. If he needs to go forward the banker may select to send customer to next stage. Now the customer gets stage 1 approval and needs to upload his scanned documents to the site through his login. Once the documents are submitted they are cross verified at the server and reply is sent to server. The system server also gets the person location and his image secretly by tracking the computer through which he submits documents to the bank server needed for bank verification. The bank may now cross verify customer details and also request extra documents by sending online alerts to the customer email. The customer just needs to upload needed documents online and can also track loan status. He gets an sms once his loan has been approved confirming the process.

48) Video Surveillance System

This is an innovative approach to video surveillance software project. We normally find video cameras in banks and other organization that continuously record and save the recorded video footage for days or months. This utilizes a lot of battery life and storage capacity to store these large video footage. Well this video surveillance software is an enhanced version of organization security that continuously monitors but only records unusual changes in the organization. These unusual changes may include theft detection or fire detection in offices. It may also include rodent detection in bakeries or restaurants after closing. As soon as the system catches any unusual activity it takes steps and informs the user by:

- Sending an sms to the user about an unusual activity.
- Sending an image of the activity to the users Email so that he may check the problem seriousness and react accordingly.

49) Online Diagnostic Lab Reporting System

The system is an online diagnostic lab manager application that brings up various diagnosis working online. Here patients are first allowed to register on the site and also login using registered details. Once registered with their address and contact details, the patients may now see a variety of tests conducted by the lab along with their costs. The system allows for CBC, Blood Glucose, KFT, LFT tests to be booked by patient. The tests also consists of parameters like Hemoglobin, WBC, etc. Now the system allows users to book any test needed. After successful booking system calculates costs and allows users to pay online. After payment the patient test is booked and the lab may now collected samples from patients registered address. After successful testing the user now gets a notification of test result through an email. The system allows admin to attach a copy of the report into the system and automatically email it to intended patient.

50) Education Assignment Dashboard

This helps Professor and Students to digitally move the assignments on one location over the server.
The key features of our solution are:-

- It helps us to keep track of the assignments assigned & uploaded by the different professors on various subjects.
- It also helps to keep track of the number of the assignments submitted by the students.
- Reports can be generated for various analyses.
- Moreover, it can work with files from a wide range of formats.
- It is a total assignment management system designed to help school and college faculties.

51) Online Herbs Shopping

This project helps the users in curing its disease by giving the list of fruits and herbs that the user should consume in order to get rid of its disease. The main purpose of this project is to help the user to easily search for herbs and fruits that will be good for the health of the user depending on any health issue or disease that he/she is suffering from. This system helps the user to reduce its searching time to a great extent by allowing the user to enter its health problem and search accordingly. The admin can add fruits and herbs to the system and its information. This system also allows the user to view the selected fruit or the herb's description which describes how the fruit or the herb will help to improve the user's health. This system also allows the user to place order which will add the items to the user's cart and make payment for the same. The system also includes a module in which the user can search for the hospitals depending on the name of the disease that it enters. Thus this system helps to cure the user's disease to a great extent.

52) Cargo Booking Software

Cargo booking software will manage the goods of Supplier (Admin) in the warehouse. This software will have Supplier (Admin) Login and Warehouse Login for different Warehouses. This product will allow the supplier to keep an eye on the goods that he has in Warehouses. The Warehouse Login will allow warehouse to accept goods, check condition of goods if its damaged then system will reorder the same good. And it will create a gate pass for the cargo. It calculate weight and others things of cargo, and will make entry of it. The admin has overall rights over the system and can moderate the process.

Modules:
- Admin Login
- Order cargo.
- Shift Cargo from one warehouse to another.
- View Reports.
- Track Cargo (Cargo is in which Warehouse).
- And all other things.
- Warehouse Login.
- Checking Weight
- Checking for damage
- If Damaged then reorder
- Storing Cargo
- View the order
- Dispatch cargo and create gate pass

53) E- Learning System

In this new era of electronics, we know the concept of e-learning which does not include the use of paper and pen. There are many advantages of e-learning system. In this e-learning system we can assign projects to students and can share documents and more easily. This system has three modules including student, faculties and Admin. Students can login, they have access to main menu, calendar, projects, documentation, to upload, view the things uploaded by the faculties, knowledge books, also send messages to faculties. Faculties can login and have access for viewing, uploading documents and projects. Admin can login and manage the faculties and student details and also view projects. This is how the new concept of e-learning came into existence, which is an easier and smarter system for colleges.

54) Advanced Reliable Real Estate Portal

We propose to build a real estate portal that allows users to post property for sale as well as search sort property and contact its dealers online. It also consists of an innovative feature that allows users to post reviews of the dealing process with a buyer after their deal. This allows the buyers to verify a sellers profile and view his past deal experiences from other user reviews on his profile. Every user on the portal has a profile that can be viewed by to check his past deals status.

A user may post bad reviews about another user he has dealt with if any payment issues are encountered during the deal. So users may now verify that particular user before dealing with him. The system consists of a user login, users may look for property as per area, Bhk, Location as well as other amenities like lift, furnished, semi-furnished etc. The system sorts property and displays results list as desired by user. Users may also post a property for sale along with desired price, location and contact details. The system also consists of a builder login where a builder may login and post his new project for those looking to buy new flats/offices.

55) Efficient Doctor Patient Portal

We here propose a doctor patient handling, managing system that helps doctors in their work and also patients to book doctor appointments and view medical progress. The system allows doctors to manage their booking slots online. Patients are allowed to book empty slots online and those slots are reserved in their name. The system manages the appointment data for multiple doctors for various date and times. Each time a user visits a doctor his/her medical entry is stored in the database by doctor. Next time a user logs in he

may view his/her entire medical history as and when needed. At the same time a doctor may view patients medical history even bore the patient visits him. This allows for an automated patient doctor handling system through an online interface. Our system also consists of organ donor module. This module allows for organ donation registration as well as organ search. The module is designed to help urgent organ requirements through easy/instant searches.

Modules :
- Admin Login: The system is under supervision of admin who manages the bookings made.
- User login/registration: Users have to first register themselves to login into the system.
- Medical History: System allows to update and view patient medical history.
- Doctor Search: System allows for doctor search through categories, name and location
- Appointment availability check: User can click on spaces to view the availability.
- Appointment booking online for date and time: Users can book appointment for their required date and time.
- Automatic cost calculation: The system calculates the total cost incurred for parking based on the time that user has asked for booking.
- Booking cancellation: User may even cancel their bookings by login into the system anytime.
- Email on appointment booking: When a user is successful in appointment confirmation and 'thank you' email regarding the slot booked.
- Feedback: The system has a feedback form, where user can provide feedback into the system.
- Organ Doner Registration: User who is going to donate organ has to register himself by filling the details.
- Organ Doner Search: User can search donar based on type of organ.

56) Secure online Auction System

Online auction however is a different business model where the items are sold through price bidding. Usually bidding have start price and ending time. Potential buyers in auction and the winner is the one who bids the item for highest price. We treat the fraud detection with a binary classification. For buying product online user have to provide his personal details like email address, license number, PAN number etc. Only the valid user will have authority to bid. This prevents various frauds according in online shopping.
- Only authorized and verified customer can participate in auction.
- Fraud customer or seller gets detect in early stages and measure to prevent it.

- Authenticate legitimate users can buy the product online very efficiently and securely with the help of this system
- The products for auction does not need any physical location
- The bidder can participate in auction from anywhere at anytime through online auction.

57) Online E-book Maker

Online E-Book Maker Project will allow users to create E-Book for free. This software will have Admin Login and Author Login. This system will allow the authors to make their E-Book without any problem and without any charge. Author will have to register if new member in the system. And existing member can Create new book or resume with old book. One Author cannot keep more than 3 incomplete Books, he has to complete 1 book atleast to start new one. Book will be created on basics of Title, Context, No of Pages in books.

Modules:

Admin
- Accept request from Author
- Check Author Details
- Checked for finished Books
- Make E-Books
- Can Process request by mailing the E-Books to authors

Author
- Register
- Fill Details
- Login and Choose
- New E-book or Resume Existing
- Enter Context of book
- Can pause e-book after completing contex
- And resume it.
- Can have E-Book in Word Or PDF format.

58) Android Patient Tracker

We propose to develop an android application to aid in dispensary patient data management and viewing. The system is aimed to help doctors to enter as well as view patient history as well as other patient details. Our system is a standalone system that can

be installed on doctor android phone to be used for further login. On installation the application allows a doctor to open application and enter the details of any patient that undertakes his service. The application allows doctor to insert various data fields regarding a patient including patient name, disease, medication provided, date of arrival, cost etc. The system saves this patient related data in the android phone. The doctor may now view this data as and when needed. The doctor may check the details whenever needed. The application allows doctor to search patients by name as well as date.

59) Railway Tracking and Arrival Time prediction

It has happened so many times that you have been waiting on railway station for someone to arrive and you don't have any exact information about train timing and other stuff. So here we present to you a project on Railway Tracking and Arrival Time Prediction. Using this system user's can get the information about train timing, and is it on time or not, and other information. In this, system will track the train timing at what time train departed from a particular station and pass these timing details to other station's system where it will display the timing according to train departed from previous station. If system will find any delay in train due to signal it will automatically update the train timing in next station and will be displayed to viewers.

In this system there is an admin module, who enters the detail about trains and its timing and these details will be passed through internet server and is fetched by the system on other stations, and there is other system that shows train information to the viewers on platform. Second system will get all the information of all trains but will automatically select the data that refers to particular station and shows that information on screen. For example if an admin at Mumbai station enter information about Delhi station Chennai station system will not be effected, but Delhi Station system will show the information about train. This system works like – when train is departed late from a station, admin will enter details about departure and its time, and this information goes in real time on internet server and retrieved on other system through internet server and shows the details on screen. Station masters on every station have a login wherein them may update train arrival time at their station when it arrives. This second System is installed on various locations on station for viewers to view the information. Admin will add information like train departed from station, expected arrival at destination, delay in the train schedule, etc. This project publishes real-time train schedule events to subscribing multiple client applications.

60) Advanced Mobile Store

This is an advanced mobile store that adjusts according to user choice and ensures most profitability using artificial intelligence. It provides user with an easy and beautiful GUI and

shows him a list of products, once the user sees a product and goes through it, the system learns about users choices. Once the user selects a phone, the system remembers the choice for that particular user. Next time the user logs in, the system shows appropriate recommendations for that user along with other products. Once the user wants to buy a mobile phone the system also shows him some mobile covers and mobile accessories for that particular mobile so that he can add it to cart as well. The system bills the user. Billing using credit card system. After billing an email is also sent to the users registered email id. The system also has an admin account that shows when visitors visited the site, which products they saw, their bill amount and when the logged out.

The following are features of this system:
- Users may login/Register on the system.
- Users may see mobile phones and add products to cart.
- The system remembers every users choices.
- Next time the user logs in, the system shows him appropriate recommendations.
- Once user selects a mobile, the system shows him various covers and accessories for that particular mobile phone.
- Once user adds all products and clicks checkout, credit card payment process appears.
- On successful payment an email notification is sent to that users registered email id.
- Admin Module shows data for various visitors.

61) Camera Motion Sensing Project

A motion sensor project that detects motion and sounds an alarm accordingly. This software system is designed in C# that constantly monitors an environment using a camera and sounds an alarm and even records images of the motion taking place as soon as it takes place.

The project works as follows:
- The user first needs to set a security code.
- As soon as the user sets the code and activates the system, monitoring starts.
- The motion detector algorithm now constantly monitors the environment to check for any movement.
- As soon any movement takes place in front of the camera the alarm is activated.
- Now the system sounds its alarm and even takes photos of the motion taking place.
- The user now needs to deactivate the alarm by entering the security code again.

62) Military Access Using Card Scanning with OTP

Military access is the most secure access provision and needs to be kept that way considering national security issues. Usual military authentication and authorization techniques consist of one way authentication techniques with just one form of authentication, namely password or smart card or biometric. Here we propose a two stage authentication/authorization technique for secured military access to authorized personnel. The first stage is a card scanning system, each authorized personnel must have a smart card. On card scanning the system also asks of an additional 4 digit code associated with it, on entering the right code the personnel goes to the next stage of authentication. On the next stage, system generates a one time password and sends to the mobile phone registered to that particular card scanned. The personnel now needs to entered the password sent on his mobile phone for the next stage of authentication. After he enters right OTP user is granted access inside. The system is a very secure access mechanism for military and other secure authorization fields. The system may be further improved by adding face recognition authentication of third stage authentication to this system.

63) Face Recognition Attendance System

The system is developed for deploying an easy and a secure way of taking down attendance. The software first captures an image of all the authorized persons and stores the information into database. The system then stores the image by mapping it into a face coordinate structure. Next time whenever the registered person enters the premises the system recognizes the person and marks his attendance along with the time. It the person arrives late than his reporting time, the system speaks a warning "you are xx minutes late! Do not repeat this."

64) Heart disease Prediction

It might have happened so many times that you or someone yours need doctors help immediately, but they are not available due to some reason. The Heart Disease Prediction application is an end user support and online consultation project. Here, we propose a web application that allows users to get instant guidance on their heart disease through an intelligent system online. The application is fed with various details and the heart disease associated with those details. The application allows user to share their heart related issues. It then processes user specific details to check for various illness that could be associated with it. Here we use some intelligent data mining techniques to guess the most accurate illness that could be associated with patient's details. Based on result, the can contact doctor accordingly for further treatment. The system allows user to view doctor's details too. The system can be used for free heart disease consulting online.

65) Improved Data Leakage Detection

Data leakage detection techniques are built for users to track if data has been leaked and the trace the sources of data leakage. Many times we come across cases where leaked data is found at unauthorized places. For example we may find sensitive data stored on an unauthorized laptop or website. At such a time it becomes important to trace the source of data leakage. For this purpose we propose an improved data leakage detection technique to trace back sources of unauthorized leakage by using a strategy of data allocation across various agents. The strategy allows user to transfer data to users by considering receivers as agents who are allocated data along with some id based undetectable alterations. These alterations allow our system to trace back the source of leaked data as soon as it is found on any unauthorized sources. In this system we propose to indentify data leakages by storing data as per agents. Our system is designed for detection of data in (.txt,.jpg &.bmp) formats.

66) Detecting E Banking Phishing Websites Using Associative Classification

There are number of users who purchase products online and make payment through e-banking. There are e- banking websites who ask user to provide sensitive data such as username, password or credit card details etc often for malicious reasons. This type of e-banking websites is known as phishing website. In order to detect and predict e-banking phishing website. We proposed an intelligent, flexible and effective system that is based on using classification Data mining algorithm. We implemented classification algorithm and techniques to extract the phishing data sets criteria to classify their legitimacy. The e-banking phishing website can be detected based on some important characteristics like URL and Domain Identity, and security and encryption criteria in the final phishing detection rate. Once user makes transaction through online when he makes payment through e-banking website our system will use data mining algorithm to detect whether the e-banking website is phishing website or not. This application can be used by many E-commerce enterprises in order to make the whole transaction process secure. Data mining algorithm used in this system provides better performance as compared to other traditional classifications algorithms. With the help of this system user can also purchase products online without any hesitation.

67) Automated Payroll with GPS Tracking and Image capture

This system is a combination of web as well as android application where the user will be using the android application and admin as well as HR will work with web application. This application is meant for field work users. The user will have this application in his android phone, when the user will login to the system his image will be captured and his GPS

location will be send to the admin where admin will view image and GPS location in web application. After Login, GPS location of the employee will be tracked automatically by the system and send to the admin after every 5 minutes .When user logout the system again the image will be captured as well as GPS location will be send to the admin. In order to keep track of the attendance as well as payroll of the field work people, this system plays a major role. The role of the admin is to add new employee by entering his personal details and admin will provide the employee with identity number and password to the user so that he can access the application in his android phone. Admin can view the GPS location of the employee by entering Employee Identity Number as well as Date. Admin can check the salary of the particular employee by entering date and employee ID. Admin can view latitude and longitude of the GPS location sent by the employee. Admin can change the password of the employee. When the HR login to the system he can check the GPS location of the employee by entering employee ID and date. HR can check salary of the particular employee by entering employee identity number and date. This application helps admin and hr to easily check the salary of the employee. Since GPS location of the employee is tracked, so employee will not attempt to add proxy attendance.

68) Fingerprint Based Voting System

Fingerprint Based Voting Project is a application where the user is recognized by his finger pattern. Since the finger pattern of each human being is different, the voter can be easily authenticated. The system allow the voter to vote through his fingerprint. Finger print is used to uniquely identify the user. The finger print minutiae features are different for each human being. Finger print is used as a authentication of the voters. Voter can vote the candidate only once, the system will not allow the candidate to vote for the second time. The system will allow admin to add the candidate name and candidate photo who are nominated for the election. Admin only has the right to add candidate name and photo who are nominated. Admin will register the voters name by verifying voter. Admin will authenticate the user by verifying the user's identity proof and then admin will register the voter. The number of candidate added to the system by the admin will be automatically deleted after the completion of the election. Admin has to add the date when the election going to end. Once the user has got the user id and password from the admin the user can login and vote for the candidate who are nominated. The system will allow the user to vote for only one candidate. The system will allow the user to vote for one time for a particular election. Admin can add any number of candidates when the new election will be announced. Admin can view the election result by using the election id. Even user can view the election result.

69) Expression Identification using Image Processing

There can be number of expression to explore emotions. Propose a system where emotions can be analyzed and studied about emotions based on expression recognition technology. Here You have to work on images. Images are prone to noise so you have to use image pre-processing methodology to remove noise from image and to get accurate result. Filter is used to remove noise from image. Image is given as input to the system.

70) Sentiment Based Movie Rating System

We usually come across movie rating websites where users are allowed to rate ad comment on movies online. These ratings are provided as input to the website rating system. The admin then checks reviews, critic's ratings and displays an online rating for every movie. Here we propose an online system that automatically allows users to post reviews and stores them to rate movies based on user sentiments. The system now analyzes this data to check for user sentiments associated with each comment. Our system consists of a sentiment library designed for English as well as hindi sentiment analysis. The system breaks user comments to check for sentimental keywords and predicts user sentiment associated with it. Once the keywords are found it associates the comment with a sentiment rank. The system now gathers all comments for a particular movie and then calculates an average ranting to score it. This score is generated for every movie in the system. The system also sorts and displays top rating movies as per analysis and calculates a top ten list automatically. This provides an automated movie rating system based on sentiment analysis.

71) Crime rate prediction using K means

Crime rate is increasing now-a-days in many countries. In today's world with such higher crime rate and brutal crime happening, there must be some protection against this crime. Here we introduced a system by which crime rate can be reduced. Crime data must be fed into the system. We introduced data mining algorithm to predict crime. K-means algorithm plays an important role in analyzing and predicting crimes. K-means algorithm will cluster co-offenders, collaboration and dissolution of organized crime groups, identifying various relevant crime patterns, hidden links, link prediction and statistical analysis of crime data. This system will prevent crime occurring in society. Crime data is analyzed which is stored in the database. Data mining algorithm will extract information and patterns from database. System will group crime. Clustering will be done based on places where crime occurred, gang who involved in crime and the timing crime took place. This will help to predict crime which will occur in future. Admin will enter crime details into the system which is required for prediction. Admin can view criminal historical data. Crime incident prediction depends mainly on the historical crime record and various geospatial and demographic information.

72) Brain Tumor Detection Using Image Segmentation

Brain tumor at early stage is very difficult task for doctors to identify. MRI images are more prone to noise and other environmental interference. So it becomes difficult for doctors to identify tumor and their causes. So here we come up with the system, where system will detect brain tumor from images. Here we convert image into grayscale image. We apply filter to image to remove noise and other environmental interference from image. User has to select the image. System will process the image by applying image processing steps. We applied a unique algorithm to detect tumor from brain image. But edges of the image are not sharp in early stage of brain tumor. So we apply image segmentation on image to detect edges of the images. In this method we applied image segmentation to detect tumor. Here we proposed image segmentation process and many image filtering techniques for accuracy. This system is implemented in mat lab.

73) E Governance Project

This e governance system is a demo system on automating the entire government system. Separate accounts for members of various houses. Top account access and control to the Prime minister.
- A separate section for various departments.
- Online acts and notice publishing section.
- Ability of authenticated members to comment on those acts.
- An administrator account to highest authority for moderating these discussions.
- Separate G2C [Government to Citizens] section
- G2E [Government to Employees] section
- C2G [Citizens to Government] section
- G2B [Government to Business] section
- G2G [Government to Government] section

74) Cloud Based online Blood Bank System

The software system is an online blood bank management system that helps in managing various blood bank operations effectively. The project consists of a central repository containing various blood deposits available along with associated details hosted on windows based cloud server. These details include blood type, storage area and date of storage. These details help in maintaining and monitoring the blood deposits. The project is an online system that allows to check whether required blood deposits of a particular group are available in the blood bank efficiently using cloud server. Moreover the system also has added features such as patient name and contacts, blood booking and even need

for certain blood group is posted on the website to find available donors for a blood emergency. This online system is developed on .net with azure cloud platform and supported by an Sql database to store blood and user specific details.

75) Criminal Investigation Tracker with suspect Prediction

We here propose a criminal investigation tracker system that tracks the investigation status of criminal cases with logs and also predicts primary suspects. The system is proposed to help agencies like CBI, CID and other such bureau's to sped up investigation process and track status of multiple cases at a time. The system keeps logs of a case which includes case summary, people involved, disputes, past criminal history of those involved, Items recovered on scene and other details. The system realizes the type of case, allows admin to update the status of investigation, upload more images of crime, items found on scene etc. This allows authorized officers to check case status and look into its status online and also update any important info as and when needed. The system also consists of a suspect prediction algorithm. Based on type of case, property, land, love or other entities involved the system studies past cases, it studies past criminal records of those involved and based on this data it provides suggestions of suspected persons in a logical order. The system is designed to aid investigation teams to work collectively on cases, coordinate and also speed up the process by suggesting logical suspects based on data provided.

76) Data Protection Using Hand Gestures

In this project, a sequence of gestures are used to decrypt a encrypted file based on technique called image processing using Gabor wavelets is proposed. We have proposed to use the Gabor wavelet and Radon transform together to derive hand pattern features and edge detection which covers the information in different directions. Now in image matching phase the image stored in the database is compared with the detected one sequentially till it matches a sequence in the database comparison is done by matching the features of the detected pattern with existing ones. Users can execute the lock utilizing any number of gestures from the database of accessible gestures. Indeed, redundancies are permitted. Because of encryption, information is secured from harm and robbery.

77) Filtering Political Sentiment in Social Media from Textual Information

Social media is now playing a vital role in influencing people's sentiment in favour or against a government or an organization. Therefore, to understand the sentiment of any posting in social media, an efficient method is an ultimate necessity. We have analyzed some facebook postings to understand political sentiments. In any politically motivated posting there are some dominant keywords. At first, we have prepared a dictionary

consisting of unique words collected from political or non political posts or comments and then trained using Naïve Bayes algorithm based on probability theory. To identify the sentiment expressed in a new post or comment, we have extracted each word of the posting and then matched those with the dictionary words for classification.

78) Secure Backup Software System

Using Software backup system, users can store files, documents, images, videos through windows application in a secured manner. In this user can store documents and files in any format which is kept in a separate folder made for each user. The stored folder is only accessible to the authorized users who can access their own folder. It's a windows application, where all the file details store in SQL Database. If the user found to be unauthorized by the admin, then admin can block a user and also can unblock it whenever required.

79) Diagnostic Center Client Co-ordination System

Diagnosis centres need to maintain good relations with their clients. There is always a database of clients maintained in every diagnostics centre. The database includes client contact details as well as his tests done. It includes data like contact numbers, name, address, email etc. Clients may conduct various tests at the diagnostic centre including blood test, urine test as well as cholesterol, liver and kidney tests. The system must be capable of evaluating patient bills and providing them in printable format. The system also allows admin to store and update patient data for existing and new patients. Since every client must be working for some or the other organization and many organizations have contracts with diagnostics centre to provide discounts to their employees, the system tracks this information too. Now the system also keeps count of the number of tests undergone by a patient in a year. After 10 tests in a year the system provides 5% discount to the patient from the 11th test in a particular year. The system also allows admin to sort out tests frequency and search particular patient records. Company wise discount rates are fed in to the system.

80) Web Page Builder

There are number of coding languages available in order to build web pages. So there is need to know any one coding language to build a web page. This innovative software application allows users to build web pages without knowing any coding language. It is specifically designed for the internal use for companies. This software helps to build/design graphical Web pages. This software is embedded in a website for professional

use, and will be available for customers to tailor web pages as per their need. This system helps the user to build web page with effective graphical user interface. User doesn't have to work specifically for GUI. System will display various webpage template user can select any template according to his preference. This system will save time of the user and will help the user to concentrate on main functionality required in their webpage. This system will provide user with professional webpage templates they can select the templates based on the requirement and functionality. Here in this system user can build whole website by just selecting the content and images required in their webpage. User can design each and every web page in their websites according to their preference by selecting the content and images. User can even specify position of the content to be placed. When user logins to the system, system will display various templates to the user. User has to select the template. System will display various pages of that template. By clicking on particular page he must specify the content and images that needs to be placed in the webpage. User can place the content and can view the template simultaneously. Once the user clicks onto the submit button system will generate the website. System will send code and .rar file to the user's email ID. User can build custom websites easily using this application. User doesn't have to know any coding languages to build web pages. With the help of this system user can work on main functionality required in their web page.

81) Fake Product Review Monitoring and Removal of fake reviews

As most of the people require review about a product before spending their money on the product. So people come across various reviews in the website but these reviews are genuine or fake is not identified by the user. In some review websites some good reviews are added by the product company people itself in order to make in order to produce false positive product reviews. They give good reviews for many different products manufactured by their own firm. User will not be able to find out whether the review is genuine or fake. To find out fake review in the website this "Fake Product Monitoring" system is introduced. This system will find out fake reviews made by posting fake comments about a product by identifying the IP address along with review posting patterns. User will login to the system using his user id and password and will view various products and will give review about the product. To find out the review is fake or genuine, system will find out the IP address of the user if the system observes fake review send by the same IP Address many a times it will inform the admin to remove that review from the system. This system helps the user to find out correct review of the product.
System works as follows:-
- Admin will add products to the system.
- Admin will delete the review which is fake.
- User once access the system, user can view product and can post review about the product

- System will track the IP address of the user.
- If the system observes fake review coming from same IP address many a times this IP address will be tracked by the system and will inform the admin to remove this review from the system.

82) Sports Club Management

A club management system project that provides and manages various club activities such as member registration, registration for various regular and vacation batches and more. The sports club management system software is a .net built system that manages the entire club activities and provides respective functionality for various types of visitors. This system is built with respect to managing a cricket club. It allows normal users to avail for club membership, book the ground at for desired days and even enroll for various activities in the club. The sports club management system is built keeping in mind various various daily activities of a cricket club and the software automates all these club functionality for easy operation of the club.

83) Online Travel Agency

The most important part of the online travel agency project is its database. The database is full of Buses, Trains, Airplane timings and availability. Online travel agency is a web based project where a user may search and apply for a travel service or package. The system allows the user to check various travel destinations and choose his destination accordingly. The software system checks for user choice and then queries the database for various available mediums to travel to that destination. The system then loads all that data and puts those choices in front of the user. The user can now choose various ways to reach his destination. When the user chooses the Bus, train or Airplane option, the system also allows the user to book tickets to the destination for the desire day and timings. Thus this software system automates the working of a travel agency and allows users to check and book his holidays online through this website. One more important functionality available in this project if needed is that the receipt of holiday booking is sent to the users mobile phone on successful booking of his holiday. This feature is optional and can be provided in the project if needed.