Software Engineering Course Project List

Instructions:

1. Understand the project and figure out (or frame) detailed set of requirements.
2. Identify the set of requirements that can be implemented and that cannot be implemented. It would be helpful for interacting with the client.
3. Choose the project on your team strength and figure out the detailed set of requirements for a project.

Crime and hazards measuring website system

A website to help homebuyers and renters in a city to discover a property's crime and hazard profiles. Users are initially provided with Crime Safety and Hazard Safety percentile scores that present a quick overview of the address compared to the entire city. Users can choose to continue to search for other properties or dive deeper into the statistics on the other sections of the website.

Your Personal Nutritionist

Personal Nutritionist as the name, the system can act as your personal nutritionist while this system can be used also by nutritionist gaining a lot of information and help in many ways. APIs helps the System to get the information in many ways. The user can get details about a number of nutrients, vitamins etc of a fruit or vegetable. The user can add his recipes or get recopies using the API. The System basically helps the user in what to eat and which is good, what will help him and etc, the system will help him filter things easily. The System also allows the user to make a diet plan and remind him his food timings.

Workflow Management System for MNC

This project is very helpful for manage employee's workload; it consists of employee working details, employee leave details, employee designation details, employee experience details, software project information, number of resources allocated to the project, project completion details. Employee salary details, etc. This .Net application mainly works with three modules those are administrator module for manage the company, project engineer module for developing software application and project manager module for managing the project.

Online Faculty Staff Directory for Multi University

Online faculty staff directory empowers user to easily view college faculty details. Student can easily view different college faculty details anywhere required at any time as this application is handy. This system is built with effective graphical user interface which enables user friendliness. User can search faculty details and view their respective details such as name,

department, courses, area of expertise, and professional interest. This system reduced time and cost of user. Here there are two entities who will access this system i.e. admin and student. Admin is authorized to add and manage all the faculty details. User doesn't require any registration or login to access this system. User can directly search for faculty and view their details. Data in database are maintained securely without any maintenance cost.

Teachers Automatic Time-Table

This time table generation system helps to manage all the periods automatically and also will be helpful for faculties to get automatic timetable in their phone by using this application. This time table generator software also manages timetable when a teacher is absent, late coming or early going. Maximum and minimum workload for a faculty for a day, week and month will be specified for the efficient generation of timetable. This system has 2 modules namely Admin and Faculty. Admin has authority to manage course, faculty, classroom, create time-table, set lecture time slot and set subject time. Faculty has authority to login, view lectures, they get lecture reminder through SMS on their phone.

Android Campus Recruitment System

Android Campus Management system project which relates to HRMS department will maintain entire recruitment service and provide services for job vacancies. This project is a combination of two languages which are Java used to develop the android application and Asp .Net used for web portal for admin. This project allows companies to post job vacancies with respect to the subject on which they are looking for employs and job seekers need to log in to their account with given login and password and check job vacancies. Job seekers can check their job application status from their account.

Canteen Automation System

This system also prominently relieves the burden on the canteen's end, as the entire method of taking orders is computerized. Once an order is placed on the android phone, it is entered into the database and then retrieved, in pretty much real-time, by a desktop application on the canteen's end. Within this application, all items in the order are displayed, along with their equivalent options and supply details, in a summarizing and easy to read manner. This allows canteen staffs to speedily go through the orders placed by scanning the QR code from student's android phone and produce the needed items with minimal delay and confusion.

Bias Detector

With over 160 million reviews, Yelp is the go-to destination for many searching for reviews of local businesses. Yelp's 170 million monthly unique users put a lot of faith in the reviewers to

give fair, unbiased, impartial reviews of businesses. However, can all reviews really be trusted? Yelp reviews are not immune to reviewers' racial, gender and socio-economic biases, impacting the average ratings of businesses and unfairly affecting their owners' livelihoods.The Bias Detectors are here to set the record straight. Bias Detector is a free tool relying on AI and Natural Language Processing algorithms to identify biases. It empowers consumers to identify biased reviews to better inform their purchasing decisions with businesses in their area, and allows local businesses to be reviewed, and to earn, based on what the quality of their goods and services, not factors outside their control, like their race, or sex, or the rate of poverty in their area.

Buddy311: Facilitating Citizen Complaints

Buddy311 is the simplest way to report a problem in your city - period. Skip the confusing menus and waiting on hold and tell the city what's wrong by talking naturally to your smartphone assistant. Buddy311 also supports cities through AI and big data, classifying complaints automatically, helping governments spend less time processing requests and more time fixing problems for their residents.

Recepticon: The Recipe Optimizer

Food impacts several components of our daily life, from our health to our overall happiness. With the increasing ability of grocery store chains to accomodate online ordering and fast delivery, we feel there is a need to assist users to choose what they order in such a way that helps meet their needs in several key areas:

Nutrition, Budget, Personal Taste, Time

To do this, we have created an application which we call Recepticon. Users will leverage the application to quickly identify the grocery items and recipes that achieve their personalized mix of priorities. Interactive components of the application allows users to modify and choose recommendations.

Wilson

Wilson is a P2P Loan recommendation tool that uses the Lending Club API and economic data to generate a list of recommended P2P loans to add to your Lending Club portfolio. The recommendation also considers your risk tolerance, keeping your portfolio invested in loans that allow you to sleep at night. Wilson uses open data for smarter analytical investing. It is transparent and easy-to-use, keeping you in control as you increase your Lending Club portfolio yields.

uConserve Home Energy Dashboard

Our goal is to drive awareness and conservation of the world's natural resources through compelling analytics, insightful visualizations, and targeted, actionable conservation recommendations. The uConserve dashboard is the manifestation of our mission in the form of an in-home device and an application that allows users to see, understand, and intelligently change their resource consumption habits.

Melon AI: a sound-recognition app for the deaf and hard-of-hearing community

Approximately 5% of world population (or a staggering 466 million people) suffers from disabling hearing loss. We set out to create an impactful solution for this community that addresses some of their everyday needs. Our mobile application uses artificial intelligence to recognize key sound events of interest to this community such as car horns and baby where immediate alerts and continual logging is critical for the user. While the deaf community has benefitted from innovation in the app space, up until now its been mostly in the areas of sound amplification and text to speech/speech to text. This app is optimized for Android with low-latency so that it works in real-time for the user. The Melon AI app converts a sound wave (from the mic) into a melspectrogram image that serves as the main feature fed into a Convolution Neural Network that will then classify the sound into one of eight classes. Average inference time is about 15 ms so the user never has to worry about missing a beat and the app can also be synced with a wearable device.

Vehicle Optical Recognition Technology

This enables users to gather information about any vehicle they can see in a matter of seconds. Snap a quick photo in the app and it will provide the details about the vehicle make, model, year, user ratings and starting retail price. In addition, it will provide this same information for the 2 closest competitors so a user can do some quick comparison shopping.

Fingerprint and Face Detection Based ATM System

Fingerprint and Face Detection Based ATM is a desktop application where fingerprint of the user and face detection is used as a authentication. The finger print and face detection features are different for each human being so the user can be identified uniquely. Instead of using ATM card Fingerprint and face detection based ATM is safer and secure. The user can withdraw, debit or view money from his account.

Health Care Monitoring System

Here we are using an idea for continuous monitoring patient's health conditions. The health care scheme is focus on the measurement and monitoring various biological parameters of

patient's body like heart rate, oxygen saturation level in blood and temperature, where doctor can continuously monitor the patient's condition. And in any kind of imergency doctor will get immidiately notified about the situation.

Stock Market Analysis and Prediction

Our aim is to create software that analyzes previous stock data of certain companies, with help of certain parameters that affect stock value. And determine the values that particular stock will have in near future. Analysis of stocks will be useful for new investors to invest in stock market based on the various factors considered by the software.

Early Outbreak Detection and Monitoring

Our outbreak identification and monitoring system brings together multiple global data sources to identify and track disease-related activities around the world. The goal is to provide a rapid identification system through daily monitoring and analysis of web-based news media and social media sources. Users can access a dashboard of current events and quickly view all of them or explore individual events in more detail.

Automatic Answer Checker

An automatic answer checker application that checks and marks written answers similar to a human being. This software application is built to check subjective answers in an online examination and allocate marks to the user after verifying the answer. The system requires you to store the original answer for the system. This facility is provided to the admin. Both the answers need not be exactly same word to word.

FakeRanks Faux Real

The “Fake News” phenomenon is very much talked about and has had far-reaching social impact, feeding rumors, fueling divisiveness and creating an increasingly polarized society. Project aims at classification of news source.

Where should you live?

Buying a home requires a lot of important decisions to be made. New services, such as 99acers, have helped, especially with understanding the valuation of properties. However, some decisions are still difficult due to a lack of key information. For example, for people who are relocating, families with children who are moving for better school districts, or people facing similar real estate options in different neighborhoods, there is a lack of services that provide them with the information which can help them to easily make decisions.

Restaurant Automation

Develops a computerized system to help restaurant personnel coordinate their activities and improve their services, and for the management to track business growth and create future plans.

Educational Networking Tool for College Students

Develops a website/app for students and faculty at different universities to become part of an academic community dedicated to education and learning from each other.

Job Fiction

"Job Fiction", a tool to help job seekers find Data Science jobs. Job titles for data science jobs vary from the obvious "Data Scientist" to the vague "BI Analyst". The term analyst may mean analyzing large data sets, or analyzing a call center request. "Job Fiction" helps you find best jobs matching your dream job description and your preferences, not just the job title or keywords.

Soybean(OR ANY OTHER CROP) Yield Prediction

Develop a software using Satellite Imagery to Predict Commodity Yields Assess the power of satellite images combined with weather data to predict yields and to do a comparative analysis of modeling strategies.

Diagnose Dementia Dx(OR ANY OTHER DISEASE)

Build a machine learning classification model to help primary care physicians diagnose their patients from all the available data, rather than from only their personal knowledge. Focuse on two distinct types of dementia: Alzheimer's Disease and Behavioral Varient Frontotemporal Dementia if you have chosen Dementia.

Ratings Reviewed

Reviews are ubiquitous; Amazon, Yelp, etc. depend on user reviews to engage people on their sites, plus the reviews are very helpful to the other users in deciding whether they want to use the services/products or not. But the star ratings can be very subjective. The experience of one user rating a particular business as 3 might be quite equivalent to another user’s experience who rates it as 5. Design a model that uses the sentiment contained in the written reviews from the Yelp Academic Dataset(you can use other dataset) and to produce a standardized star rating.

SmartCam

Surveillance cameras are common tools to monitor a home or business, but reviewing footage is tedious. Build a scalable system that harnesses ML to save home and business users, the

trouble of reviewing endless video footage. Reviewing of footage may include any kind of human activity, number of people in it, identity of them and so on.

The Naive Baker

Imagine a world where your kitchen helps you decide what to cook using your pantry and preferences. Build a project to let you explore new recipes with ingredients you already have at hand. Enter your pantry quickly using autocomplete and machine generated ingredient suggestions, then find out what you can cook! Use the filters to limit the amount of time you have, or to select the particular ingredients you feel like cooking with today.

Summary Bot

Design a bot that listens to/reads the conversation (chat) for some duration and then gives the user a summary so that the user doesn't have to read the whole chat.

Doctor decision helper tool

Design a system that helps doctors/hospitals in making best healthcare decisions for the patients.

Estate locator

Design a system to find/identify the potential neighborhood for real estate investment according
to user needs.

Air Quality

Design a platform which collects toxic substance data and allows virtually any user easy access to their overall exposure levels of pollutants while providing the ability to drill down into specifics
with context, resources, and analysis seamlessly integrated into visualizations.

Renting system

Design a system where users can share the details of things which he/she wants to give for rent or request for same.

SmartDispatch

Fire and ambulance services across the country depend on technology to help save lives. That technology is sorely outdated, has caused dangerous delays and even cost people their lives. SmartDispatch aides emergency care dispatchers in distributing ambulances according to emergency service (EMS) distributions to improve response times, reduce cost, and reduce human error.

By bringing predictive analytics and automation to emergency call centers, SmartDispatch equips dispatchers with the tools they need to get their jobs done efficiently and effectively and to deliver the best care possible to people in need

SmartDispatch addresses three key obstacles dispatchers face.

How many calls will happen and where?

- Most dispatching systems in use today do not have any predictive components. However, many municipalities maintain records of emergency calls and response times that stretch back years. SmartDispatch leverages this historical data to predict the number of calls in a given area on an hourly basis, so dispatchers have a clearer understanding of what to expect.

Who should respond to each call?

- Dispatchers often rely on institutional and geographic knowledge of their regions to assign emergency units to calls. This means critical choices in sometimes life-threatening situations are vulnerable to human error and bias. SmartDispatch automates these choices and accounts for existing traffic conditions. Response times are minimized, and dispatchers can focus on other critical tasks.

Where should ambulances wait while not in service?

Unlike brick and mortar firehouses, ambulances and emergency vehicles don’t have fixed stations at which to wait while not responding to a call. Instead, planners and dispatchers must choose post locations for their ambulances. Currently there is no standardized process for selecting these post locations, nor is there an agreed upon system for updating these locations. SmartDispatch addresses these inconsistencies by assigning post locations that position ambulances nearest the areas with the highest concentration of predicted calls. Additionally, these post locations can be updated at any desired frequency.

FoodHUD

FoodHUD, the Food Heads-Up Display, is an easy-to-use web application where a user uploads an image of food and then receives the name of the food along with an estimate of the caloric content of the food for every 100 grams of it. We call this the "Caloric Density" of the food.This

app runs through via the Google App Engine. It uses a modified Keras network fine-tuned on the Food101 data set to predict the type of food in a picture. It then links that type of food to a caloric density value derived from the USDA Standard Reference.

Dynamic timetable system

Most colleges have a number of different courses and each course has a number of subjects. Now there are limited faculties, each faculty teaching more than one subjects. So now the time table needed to schedule the faculty at provided time slots in such a way that their timings do not overlap and the time table schedule makes best use of all faculty subject demands. We use a genetic algorithm for this purpose. In our Timetable Generation algorithm we propose to utilize a timetable object. This object comprises of Classroom objects and the timetable for every them likewise a fitness score for the timetable. Fitness score relates to the quantity of crashes the timetable has regarding alternate calendars for different classes.Classroom object comprises of week objects. Week objects comprise of Days. also Days comprises of Timeslots. Timeslot has an address in which a subject, student gathering going to the address and educator showing the subject is related Also further on discussing the imperatives, We have utilized composite configuration design, which make it well extendable to include or uproot as numerous obligations. In every obligation class the condition as determined in our inquiry is now checked between two timetable objects. On the off chance that condition is fulfilled i.e there is a crash is available then the score is augmented by one.

Question paper generator system

In this system we present a smart question paper generating system. In our system we allow administrator to input a set of questions and respective answers for option ticking. We also allow admin to provide weight age and complexity for each of these questions. After this the questions are stored in database along with their weight age. Now on question paper generating time the admin just has to select the percentage of difficulty. On this selection the system selects questions randomly in a way that their weight age makes up for 100 marks and according to difficulty that admin chooses the questions are chosen based on their complexity level. After this q paper is converted to pdf file and emailed to colleges on button click.

Personality Prediction System Through CV Analysis

This will enable a more effective way to short list submitted candidate CVs from a large number of applicants providing a consistent and fair CV ranking policy, which can be legally justified. System will rank the experience and key skills required for particular job position. Than system will rank the CV’s based on the experience and other key skills which are required for particular job profile. This system will help the HR department to easily shortlist the candidate based on the CV ranking policy. This system will focus not only in qualification and experience but also

focuses on other important aspects which are required for particular job position. This system will help the human resource department to select right candidate for particular job profile which in turn provide expert workforce for the organization.Candidate here will register him/herself with all its details and will upload their own CV into the system which will be further used by the system to shortlist their CV. Candidate can also give an online test which will be conducted on personality questions as well as aptitude questions. After completing the online test, candidate can view their own test results in graphical representation with marks.

Human Speed Detection Project

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 person 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.

Online Mobile Recharge Portal Project

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.

Tornados Prediction systems for coastal areas (A part of Disaster management system, it can be combined or seperate, ie. Earthquake, TSunami, Volcano, etc)

Predict rains , tornados and other things that can directly/indirectly affect fishermen. Make automated announcements and track the on sea ships and alert cost guards for those ships, and also track other ships based on radar and other sensor readings.

Clinical research organization system

Clinical research is a branch of healthcare science that determines the safety and effectiveness of medications, devices, and diagnostic products intended for human use. These may be used for prevention, treatment, diagnosis of various diseases. Design a system that keeps track of production of such medicines from the drugs used in it. It should mange experiments processes and results of the medicines done on animals and human. Medicines must have passed all the tests needed by govt. of the country before start selling. Designed system should be able to track all the phases of this process and one should be able to decide what amount needed to be prescribed to patient based on the test results.

Warehouse management for food and other goods:

Design a system for warehouses & farmer. Warehouses are places where farmers can store their Goods, and send to market when it's needed. System should be able to keep track of goods storage processes, crop storage life, storage capacity of a warehouse, its location and other details. Based on these details farmer should be able to find his nearby warehouses. Future storage details should be available so farmer can reserve space for his crops in advance. Farmers should be able to decide what kind of vegetable to grow in advance based goods already stored and future reservations and crops eviction rates of nearby warehouses.

Fully Automated Product warehouse management system:

Everything is similar to any warehouse management system, just sensors and robots handles the tasks done by human in this case.

Near By NGO Finder

Design a system that can be used by donor for finding out NGOs in his/her city. System classifies the NGOs based on product they accept. Donor can choose amongst the NGOs depending upon the nature of product. System has other side too, which are NGOs. NGOs can register themselves and can also request users for products using notification to the users. NGOs provide detailed description in system about the how they have utilized product with pictures/proofs. System consist payment module through user can donate amounts.

Emergency Help Service

Design a system which provides help to people in the case of emergency such as natural calamities, accidents, women safety, etc. The device is configured with GPS and GSM modules in such a way that person in need can get the help by using a button on a device. Each team can design a system for different services i.e. emergency situations.

Farmer Subsidy System

Design a system which provides subsidy to the farmers based on previous grew crop, land area, soil details, etc. Farmer can request subsidy for water facility, to buy crop, to maintain farm,

etc. System should also give information about various kind of subsidy based on season and location. This system is used by the government to encourage farmers by giving subsidy.

Location Sharing System

Design a system to share the location of users between known people. Location can be of home, office, place where he/she usually go. This system is useful for people who shift from one location to another. It can also be useful for carpooling, flat renting, hanging out, to know recommended service providers, etc. Different teams may consider different usage of this system.

Sana Protocol Builder

We are building a simple to use web interface to aid doctors and other non-technical users in creating Sana documents. Sana documents are written in XML that define a medical procedure. These Sana documents are then downloaded by nurses and doctors in remote locations onto their phones with the Sana mobile application (already exists). The mobile application will then parse the Sana document and generate a questionnaire "procedure" that the nurse or doctor can follow and ask their patients.

Personal Information Banking

Personal Information Banking aims to give consumers complete control over their personal data. From collecting new information, to aggregating information from current data sources, we want to create a more complete profile of consumers. We generate value for consumers by allowing them to control who accesses their data, and compensate them when their data is used.

A self hosted API for web metadata retrieval

You are working towards making a service that returns metadata from a web page. If a user or web page wants to display data from a web page without linking to it or pasting all of its contents, this service can return a summary of information found on that URL with an appropriate thumbnail from it. The goal is to provide a free and open source API that can be expanded to be used in mobile applications in the future. There is currently no free and open source application that provides this service. Our product intends to incorporate caching to allow for better performance.

A quality checking tool

A software bug is a defect in the software. As a result, the functionality of the software might get altered and disrupted. Some bugs are easy to find whereas others are almost impossible to figure out as the code having these bugs may never get exercised, or their execution may not result in observed failures. Static Code Analysis (SCA) tools try to find bugs by analyzing the source code using some static analysis techniques which do not require executing the code. Different static analysis techniques such as syntactic pattern matching, data flow analysis, model checking and verification theorems have been used by these tools to discover a wide range of bugs. While intending to help quickly identifying bugs in the program, these tools however, usually generate an unduly enormous number of warnings due to the use of

underlying approximate analysis techniques. This information overload can easily hinder the potential benefits of such tools. Understanding the warnings and their categorization can help to perceive the strengths and limitations of these SCA tools. Our project aims to develop a tool which automatically filters the false alarms generated by the SCA tools, which will help testers to only concentrate on actual errors.

Automated Itinerary for Your Next Trip

ITIPlanner is an Android application that provides you with an itinerary for your next trip based on your interests. The application optimizes for prominence of attractions and distance travelled throughout the trip. It also allows you to easily share the itinerary among fellow travelers and access your plans offline avoiding a roaming data plan.

SportsAPI:

Public API for developers to access sports data SportsAPI is a well documented and flexible public API for developers to query up to date players and games data for various sports league. The query able stats are available for NHL, NBA, and MLB as a JSON output. It enables developers to build applications on top of sports data easily and cheaply relative to the tools available to them today which are either closed to the public or costly. It is suitable for developers for fantasy sports, which is a growing trend in today's sports, gaming, and betting market, as well as fantasy sports players looking to take the next step to ensure their victory.

Food & Symptom Tracking

What a person eats has a direct impact on their health. Bowls combines food and symptom tracking with data visualization in attempt to aid users in identifying causal relationships. Users track foods they eat at their desired level of granularity and symptoms they experience separately. The Bowls app presents this data in the form of charts and dashboards, and allows the user to filter data according to their needs in order to help determine potential food sensitives.

A location based social network for mobile

This project is an APP application that provides the ability to create and join local groups called "flocks" via their Smartphone. These groups will allow the user to easily discover and build groups with people in their immediate area without having to send specific join instructions to every potential member. This has a number of potential use cases, from creating groups at the start of pub crawls to creating interest groups at conferences.

News aggregator (Tagged News)

Tagged News is a website for users to have discussions on various topics. Users can submit links to other web pages and each such submission generates a thread for other users to post their opinions on the link. The website has a convenient user interaction system; Users can reply to each other's comments and can up-vote or down-vote on topics and comments. The website encourages an organized conversation between users and aims to create a good online community.

Predict: League of Legends Game Analytics

An analysis tool for the popular online game League of Legends. The system is designed to help players analyze previous games and, using personalized trends, generate suggestions on the optimal way to approach a current game or how best to improve in the future.

DegreeAudit

DegreeAudit is a software tool to automatically check if a student transcript meets graduation requirements. It comprises a domain specific language for defining graduation requirements for each department/programme at a university, as well as translators to encode the degree audit question for a specific student in Boolean logic. The analysis returns reasons justifying its conclusion as to whether the student transcript meets the degree graduation requirements.

Application-bharo:

An automated tool for insurance system In our daily life, we have to fill at least one application form (e.g., job, education, health, medical, insurance) and it would also be frustrating to fill the same information again and again. Application-bharo is a tool to automatically application forms based on the user information present in any of the forms. This also allows the user to fill some new information and automatically save that information in the Application-bharo database (to be made available in the next session). In this version, the tool provides functionality to automatically fill application for multiple insurance agencies.

CVMaker:

CV automation and resume parser CVMaker gives you the next level of resume management. It consists of CV templates which users can use to generate his/her CV. The tool also includes a parser that automatically parses the resume uploaded in some specified format, store the parse information and help to generate CV.

MineData:

Identify Knowledge Pattern MineData is a tool implements three data mining algorithms. This tool helps to analyze the algorithms and identify knowledge patterns from the database and the datasets uploaded to the tool through a set of query. Also, the tool automatically scrutinizes the datasets attributes depending on the input of the algorithm and shows the results. The query able stats for each algorithm are available as a JSON output.

Algorithmic APP for Visualization

As a computer science student, it is important to understand all the basic types of algorithms so that one can use them properly. You need to understand the details of the algorithms involved so that you'll be able to predict if there are special cases in which the software will produce unacceptable results. However, understanding the algorithm and its complexity in a real-time scenario is very difficult. Our aim is to develop an android APP which provides visualization for each of the implemented algorithm for a given application scenario.

E-Commerce Price Comparison

When a user is interested to buy products from the online shopping portals then the user have to search and compare for the product in each and every portals. The aim is to develop an android APP that automatically compares a product price available in different shopping portals.

CPC: Code to Pseudo-code converter

For a given problem description, the pseudo-code is developed based on the steps need to be computed and then converted to the code. However, writing the pseudo-code is very difficult in comparison with the restricted natural language text and also difficult to understand. CPC is a tool which automatically converts the submitted code (in any programming language) to the standard pseudo-code format.

AutoAttendance:

APP for automated attendance in Lab/Lectures This project is an APP application that provides the students an option to automatically mark attendance in the lecture and lab sessions. The instructor opens the sessions for a specific duration and students have to automatically mark the same. AutoAttendance reduces the time of marking attendance and encourages proxies.

Online Tendering

An API collates all such information that are trending on the internet. An interactive APP need to be developed that can customized by the user for different set of categories like health, horoscope, news, sports etc.

CourseGame:

Bonus point for the course In a course, 14 weeks are there to complete the course curriculum. Several assignments are given to the students for each topic in the course. An android APP game is developed having 14 levels one for each week where student will play the game in his/her smart phone. The students will move from one level to another when one level is completed. The portal for the admin needs to be developed who can set the questions on each level, how marking should be done and the rules for playing the game.

Programming: Programming Club

Programming APP is an android application manages all the activities performed in the club. The functionalities like asking questions, posting reviews, forums, examples, and schedule need to be maintained in the data, and so on. Every week challenging questions need to be posted by crawling from competitive programming portals. The well known algorithms need to be illustrated along with their implementation in C or Java.

StartAPP for StartUP:

Automated Crawling Tool StartUP app is an informative application which guides you how to getting started with a StartUP, where you can get funding or where you can get incubation. After having an idea there are many challenges ahead faced by the entrepreneurs? This app acts as a medium which provides guidelines and a set of instructions which can help budding entrepreneurs at a very early stage.

ComplaintAPP for citizens

Complaint APP facilitates citizens to post their complaints in making the private/government services better so that the obstacles or difficulties can be solved with less effort and within a short time. The main idea is to use social networking platforms for registering the complaints and getting responses for the same. Therefore the barriers between travelers and officials can be removed will be able to communicate quickly and easily.