

COEP NEWS FEED APP

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April 2019

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1 Abstract:

The project aims to launch a platform for the students and authorities of COEP where the app users can check the updates of the college. The main platform on which the project will be based is Android Studio .The main purpose of this project is to simplify the process which the people of COEP use to check the updates of college till date. The user interface will be very friendly consisting of an initial login process which will be definitely different for the teachers, other authorities and students of the college. The updates of college will include about the upcoming events of the college which will also contain registration links for the interested participants. The news about placement of all the branches will be updated by the authorities of the college. All the clubs can update about the various achievements of the college. Also, they can update new regarding their inductions.

Stages of the project are as follows:

- 1)Designing the map of project and function prototypes of the entire project.
- 2)Coding all the different functions required.
- 3)Designing the user interface.
- 4)Testing the functions and user satisfaction.

List of features:

- Different login for teachers, club heads, authorities and students.
- User friendly interface for freshers.
- Notifications of new updates.
- Reminder for upcoming events.
- News about achievements and placement.

Feasibility Analysis:

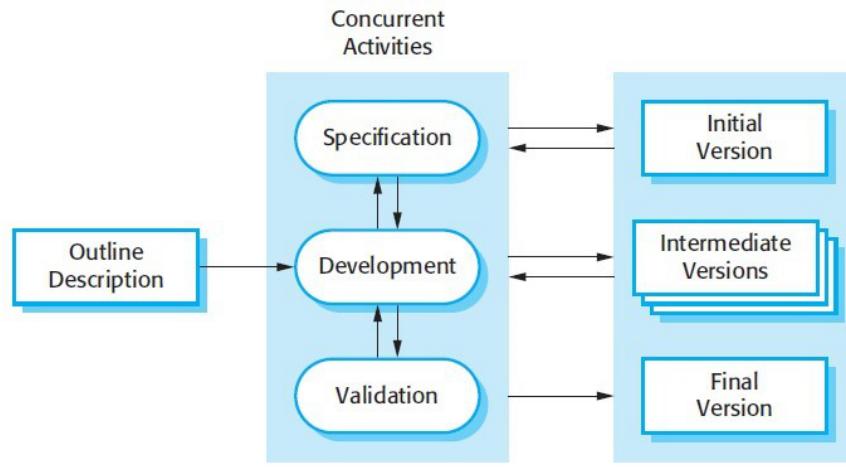
We need to test the android app for various types of situations experienced during the use of app. The testing and bug fixing can be done by user experience and also by guidance of teachers. The app will be completely feasible for the college because of its need for convenience.

Process Model:

The incremental build model is a method of software development where the product is designed, implemented and tested incrementally (a little more is added each time) until the Product is finished. It involves both development and maintenance. The product is defined as finished when it satisfies all of its requirements. This model combines the elements of the waterfall model with the iterative philosophy of prototyping.

Advantages of Incremental method:

- Generates working software during the software life cycle.
- Flexible – less costly to change scope and requirements.
- Easier to test and debug during a smaller iteration.
- Customer can respond to each built.



- Lowers initial delivery cost.
- Easier to manage risk

Application of the process model in the project:-

In this project we create the app, but we need to improvise it from time to time. Also we do have the major requirements at the beginning, which can be fulfilled and all the other requirements can be accomplished gradually. Therefore this model is appropriate for our project.

2 Software Requirements Specification

2.1 Introduction

2.1.1 Purpose

2.1.2 Document Conventions

2.1.3 Intended Audience and Reading Suggestions

2.1.4 Product Scope

2.1.5 References

2.2 Overall Description

2.2.1 Product Perspective

2.2.2 Product Functions

2.2.3 User Classes and Characteristics

2.2.4 Operating Environment

2.2.5 Design and Implementation Constraints

2.2.6 User Documentation

2.2.7 Assumptions and Dependencies

2.3 External Interface Requirements

2.3.1 User Interfaces

2.3.2 Hardware Interfaces

2.3.3 Software Interfaces

2.3.4 Communications Interfaces

2.4 System Features

2.4.1 System Feature 1

2.4.2 System Feature 2 (and so on)

2.5 Other Non-Functional Requirements

2.5.1 Performance Requirements

2.5.2 Safety Requirements

2.5.3 Security Requirements

2.5.4 Software Quality Attributes

2.5.5 Business Rules

2.5.6 Other Requirements

Appendix A: Glossary
Appendix B: Analysis Models
Appendix C: To Be Determined List

2.1 Introduction

2.1.1 Purpose

COEP news feed app is made for the students of college so that they can get updates about college easily, without visiting various other interfaces.

2.1.2 Document Conventions

Bold text has been used to emphasize section and sub-section headings. Highlights is to point out words in the glossary and italicized text is for used to label and recognize diagrams.

2.1.3 Intended Audience and Reading Suggestions

This document is to be read by our project managers. The SRS has been organized approximately in order of increasing specificity. The developers and project managers need to become intimately familiar with the SRS

2.1.4 Product Scope

This app can be used in real life college. It can be used by every student of college through id or username.

2.1.5 References

Nevonprojects.com

IEEE-projects.skiveprojects.com

2.2 Overall Description

2.2.1 Product Perspective

This product is new and it is self-contained product.

2.2.2 Product Functions

This app will be useful for every student of COEP mainly for Freshers. They can gather information about campus here. Also, this app provides updates about placements and events. Student can get to know about various clubs it may technical or non-technical.

2.2.3 User Classes and Characteristics

Students and faculty of college can use this app. Students and faculty are expected to have basic knowledge about mobile to use this app. The user interface will be quite intuitive, so any advanced knowledge will not be necessary.

2.2.4 Operating Environment

Coep news feed app contain database in which Students login through id or username provided by college. If entered username or id is correct they can access the app. Database is used to store feedback or updates about any events, placements. The application will be based on Android Studio platform. Software requirement are as follows:

Microsoft Windows 7/8/10 (32-bit or 64-bit)

2 GB RAM minimum, 8 GB RAM recommended.

2 GB of available disk space minimum, 4 GB Recommended (500 MB for IDE +1.5 GB for Android SDK and emulator system image) 1280 x 800 minimum screen resolution.

JDK 8.

2.2.5 Design and Implementation Constraints

1.Synchronization

2.Communication protocol

3.Time requirement (Need to improve time to time)

2.2.6 User Documentation

This app will have user id and password to do login. The app will also have password recovery options. The types of users will be admin and students/client.

2.3 External Interface Requirements

2.3.1 User Interfaces

the user interface screen is described in table:

Screen Name	Description
Login	Log in to the app
Registration	Contain link for register any event
College info	Will contain college info
Help	provide help for new user
Logout	Logout from the app

2.3.2 Hardware Interfaces

This app can use on mobile phones only.

2.3.3 Software Interfaces

App contain user friendly Interface which will communicate user directly. Database contain information about college and various clubs, events. Admin has to update information about newly events time to time. Basic android application knowledge is sufficient for the users.

2.3.4 Communications Interfaces

User cannot edit any information in the app, developer or admin can edit or update information daily. It does not take long time. There will be attempt to share news and information via other apps in the phone.

2.4 System Features

2.4.1 System Feature 1

2.4.1.1 Priority

The list of features:

- 1)Different logins for teachers, club heads, authorities and students, HIGH PRIORITY
- 2)User- friendly interface for students. – High Priority
- 3)Notification of the new updates. – Medium Priority
- 4)Reminder of Upcoming events. – Medium Priority
- 5)News about achievements and placements. – HIGH Priority
- 6)User complaints – Low priority

2.4.1.2 Stimulus/Response Sequences

Successful Login – Will lead to the main homepage of the News feed app.

Updating info- Dialog box will appear giving us confirmation about the completion of task.

Links- clicking on registration links will open various other applications.

2.4.1.3 Functional Requirements:

Designing of the User Interface using android studio and java.

Testing of various interfaces according to situations and conditions faced during active app usage.

Coding of all the functions in java language.

2.5 Other Nonfunctional Requirements

2.5.1 Performance Requirements:

The app will have minimum requirement of RAM and mobile storage.

2.5.2 Safety Requirements

The access to the information database will be given only to the developers. This will ensure complete safety of the information and resources of the application, also there will be copyright content on the application developed by the team.

2.5.3 Security Requirements

There will be some security measures taken in order to provide security to the confidential information of the users. The users have to secure their login credentials that is user id and password in order to maximize security.

2.5.4 Software Quality Attributes

The app will be available to the students 24/7. They can update information from anywhere with active internet connection. The software will be completely feasible in the college because of its need and necessity.

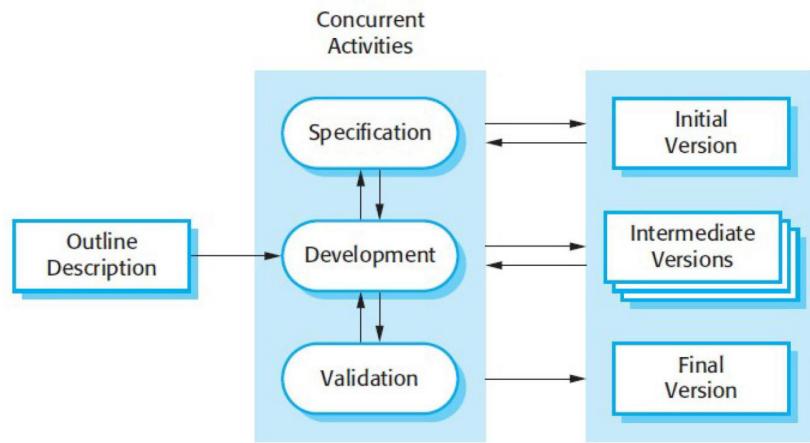
2.5.5 Business Rules

Students - Can check updates and register for events via links. /
Teachers – Can update important information regarding upcoming events. Can edit information in the future.
Club Heads - Can update information about various inductions and achievements on the news feed.
NO FAKE INFORMATION SHOULD BE UPLOADED ON THE NEWS FEED APP.

2.6. Other Requirements

Appendix B: Analysis Models

Incremental process model is used for our project



3 LITERATURE SURVEY

ABSTRACT

The project aims to launch a platform for the students and authorities of COEP where the app users can check the updates of the college. The main platform on which the project will be based is Android Studio. The main purpose of this project is to simplify the process which the people of COEP use to check the updates of college till date. The user interface will be very friendly consisting of an initial login process which will be definitely different for the teachers, other authorities and students of the college. The updates of college will include about the upcoming events of the college which will also contain registration links for the interested participants. The news about placement of all the branches will be updated by the authorities of the college. All the clubs can update about the various achievements of the college.

Also, they can update new regarding their inductions.

BACKGROUND

It is difficult to find the college day to day information at a single place. Also, the mailing system is somewhat outdated. People get notifications of the news very late through mails. For the new students it is hard to find the information like credit registration or club inductions. Our app is about news feed totally concentrated about our college. This app will provide all the information about all clubs, placements and about all the events going on in the college.

1. COLLEGE SOCIAL NETWORK PROJECT

Web application intends to provide a well-established web-based Social Network system between a job seeker and a recruiter. This documents a networking system scope, functionalities, requirements and feasibility. This project aims to develop a website which provides a Communication among peoples on network, which works quite like Social Media Site. This website also provides the features of writing and posting a post or any event all at one place. The main idea behind it is to share the job-related details posted by placement officer via adding a post which can be read by all the student as well as faculty using the website. This web application can be handled by the admin and manage student as well as faculty.

The following points were implemented in proposed system:

- Students can register and login into the system once their registration is approved by the admin.
- Once the student logged in into the system, he/she can write and post an article on various topic of his/her choice. Also, he/she chat with the other students.
- Students can also upload images with their post.
- All students can view News Feed posted by individual student.

- All the student registration will be approved/rejected by the admin as well as, all the post will be kept pending until admin approves/rejects every post.
- Admin Login has full authority on system, he/she can add/delete Faculty.
- Placement officer can create a list of students by specifying the department and criteria. List will include Basic Details, Marks and Backlogs.

2. AISAT COLLEGE APP

1.Authentication: This feature will give the user a secure and simple login screen. It will consist of two basic fields, Username and Password On successful entry the user will be provided with the administrator control page to control all the settings of the database and on unsuccessful login the user is directed again to the same login page with an error message.

2.The most important function of the notification is to provide important events and special occasions that are coming later. The application will provide up-to-date information. It should display the latest results of all times, and if it lags, the user should be notified. The application should be capable of operating in the background should the user wish to utilize other applications Also other users can simply get an overview about the college without signing in. They can get an overview about the college by accessing information about the college, location using gps, courses provided, gallery, facilities, departments etc. The facilities from which the guest users are exempted are college calendar and news and events. The signed in users have access to special features in the application Information about news and events conducted and to be carried out is listed in news and events. They will also receive notifications about the events that are to happen in the college on corresponding days from the college calendar.

3. AN ANDROID APPLICATION BAESD TEMPERATURE AND HUMIDITY MONITORING AND CONTROLLING SYSTEM FOR CHILD INCUBATORS

Preterm birth which is also known as premature birth means the birth of the baby at least 37 weeks gestational age. Premature infants are at greater risk for delays in development, hearing problems and problems seeing. These risks are seeing only in the earlier a baby is born. Preterm birth is the most common cause of death among infants worldwide. Almost four million babies die worldwide in the first month of life where as one million die on their first day. This paper presents a solution of wirelessly monitoring different child incubators at a time. Currently two incubators has been testified but ten incubators can be testified through this application system. The parameter values represent the actual and real time conditions without human error.

4. IMPLEMENTATION OF CHILDREN TRACKING SYSTEM ON ANDROID MOBILE TERMINALS

Recently in all over the world in every 40 seconds child becomes missing or kidnapped. The increasing prevalence of children wandering has many parents very concerned. We have to see and read many stories about children or students who are kidnapped or not reaching homes. Most of the stories have had tragic endings. This paper focuses on implementing children tracking location system for every child attending school. Designing a child tracking system to assure parents that their child is safe from suspicious actions and happy in school environment. The information of child being missed is sent to respective parents mobile, if they move beyond the coverage area. Also, when child wants to convey that they are in danger than they will press a panic button given on their school i-card. Mobile terminals have wireless local area network (LAN) and Bluetooth device. It adopts bluetooth communication among mobile terminals in every group to collect information and delivers to respective server using wireless LAN.

5. ANDROID APPLICATION ON E-TICKETING RAILWAY SYSTEM USING QR-CODE

Buying ticket is most challenging now a day due to increase in population, in the current ticketing facility we must take local railway ticket in the queue or use a smart card. There are websites for reservation of long journey tickets. This application deals with the development and implementation of a smart-phone application to buy the local railway tickets which is simple and easy to use. This application uses the station WIFI facility to book your railway tickets based on 3 location. It allows us to book our tickets only in ticket-counter areas. In this application ticketing information of the user is stored in the smart-phone. The main aim of the proposed system is to reform the current season ticket booking process (Ticket) for local traveling. I.e. with the help of this application travellers will able to book tickets and buy a pass through their mobile using Wi-Fi connectivity. The user can manage its account by viewing its account balance, so he/she can recharge it to avail uninterrupted service. It can also keep track of most recent tickets and pass bought. This is an effort towards queue less ticketing system and makes passengers utilize their time which they waste waiting in the queue.

6 PORTABLE SPEECH TO SPEECH TRANSLATION ON AN ANDROID SMARTPHONE: THE MFLTS SYSTEM

For US troops on grounds in countries like Iraq and Afghanistan, one of the key objectives, “Wining the Hearts and Minds” of the local population, presents a formidable challenge due to the language barrier involved. Employing human interpreter to address the issue has many of its own challenges, foremost availability of locals to willingly act as such. The MFLTS, a US Army project can allow soldier to be equipped with personal translation device running on Android smartphone. The goal of the research project was to allow for free-form

responses from both the soldier and foreign speaker. Initial prototypes ran on a full – fledged laptops which soldiers would carry in backpack, but once cheap and powerful smartphones entered the market , they used to carry it.MFLTS provides a better scope: avoid creating a one – off application that would tie the Army to one specific vendor, designing MFLTS as a framework allows easy writing of any applicatin that utilizes natural language processing components.

7. ANDROID BASED ERP (ENTERPRISE RESOURCE PLANNING) SYSTEM

In today's cooperate world, most of the companies work on ERP based systems. These systems are based on local area network. Now, if the director of company wishes to access to any data / report at remote location, it is not possible. To overcome this problem a new approach called Android based ERP system is presented here. This paper provides an approach which helps to maintain the data of ERP at centralized location and can be accessed from anywhere in the world through Android application. ERP is a software used for business management. Company uses ERP software to collect, store, manage 2 and interpret data from many business activities, including product planning, development and cost. This project involves the insertion as well as retrieval of data through android applications, which would be beneficial for the employee to insert data and for the director to retrieve data at remote location once the application is installed there.

8. ANDROID MOBILE APPLICATION FOR ONLINE BUS BOOKING SYSTEM

The fundamental aim to carry out this project is to create and design an Android Mobile Application of Online Bus Booking System; in order to transfer all their routine operations into an Application, which will allow serving customers up to their optimum satisfaction. To assist bus operators operations and marketing decision through timely decision making via Management Information System through the deployment of an Android Mobile Application of Online Bus Booking System.

9. A SURVEY ON SMART TROLLEY SYSTEM BASED ON ANDROID APPLICATION

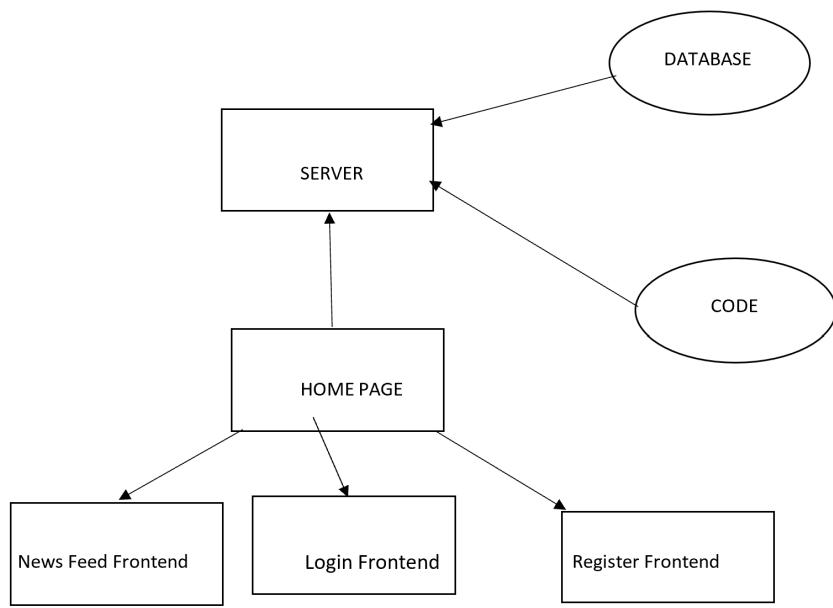
A shopping malls , super market ,Big Bazaars, D-Marts is a places where thousands of customers visit every day, where people get their daily necessities ranging from food products, clothing, electrical appliances etc. Huge rush is seen at mallson holidays, weekends, special offer and discount period. After total purchase one needs to go to the billing counter for payments, but the procedure using barcode scanner is a time-consuming process and results in long queues and delays for the customers. The aim of the research paper is to solve the above-mentioned challenge. The project proposes the customer to scan the

barcode of every product through the use of Android mobile, which they wish to purchase and drop into the shopping cart and proceed to checkout at the billing counter. With this system, customer will have information about every item. This saves time and manpower required in malls. Main objective is to reduce and eliminate time taken in billing counter in super markets by designing an android application which uses barcode scanners allow users to self-checkout and increase productivity. This paper explains the system of shopping by using the NFC (Near Field Communication) card technology for shopping. This paper provides an application which helps customers in scanning the product and provides centralized and automated billing system.

COMPARISON TABLE

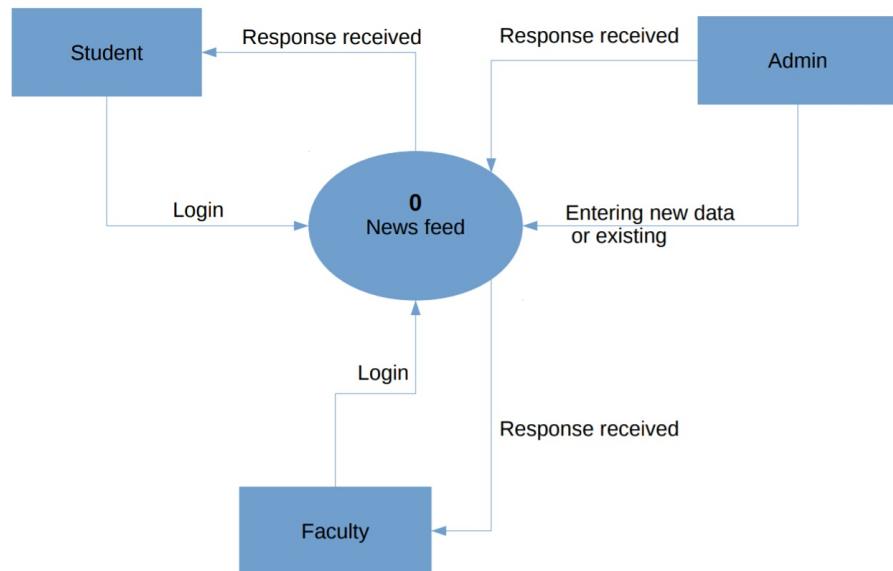
Features	College Sports Venues and Management System Platform Design and Analysis	Design and implementation of Online Booking System of University Sports Venue	Android Mobile Application for Online Bus Booking System
Login	Admin Through	Username and Password	Using Username and Password separate for Faculty and Students.
Reminders	No	No	No
Platform	PHP	Android App	Android App
Accessed By	Students	Students and Teachers	Students and Teachers
Authority	Admin has right over every post	Admin has right over every post	Teachers and Club Secretaries only can post content
Maintenance	Little bit difficult	Easily maintained	Effective and easy to maintain
Portability	Can run on any android operating system of version 2.3	Compatible for all android operating system version upto 4.2	Designed to run on android operating system version 2.3 or higher

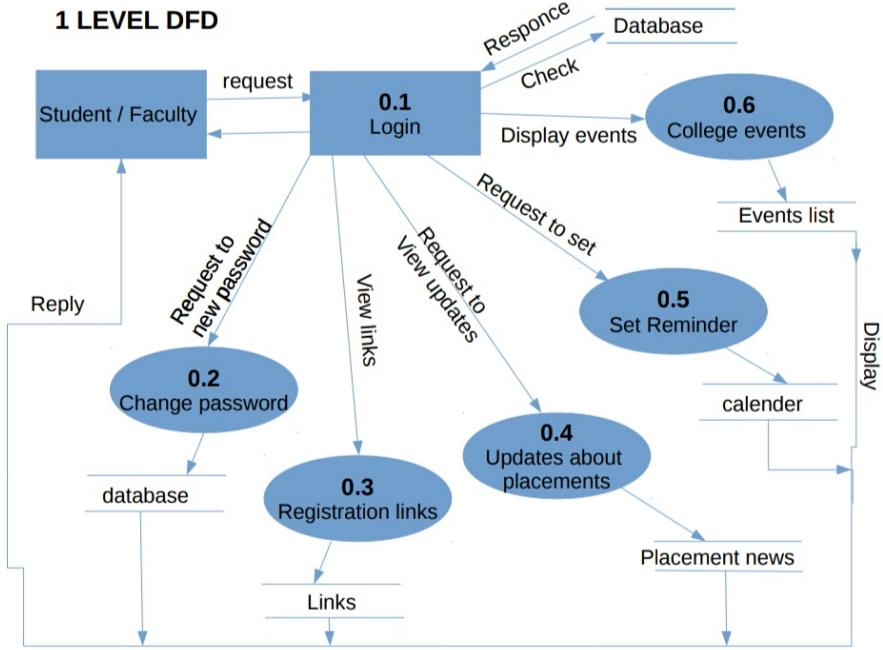
4 Architecture Diagram



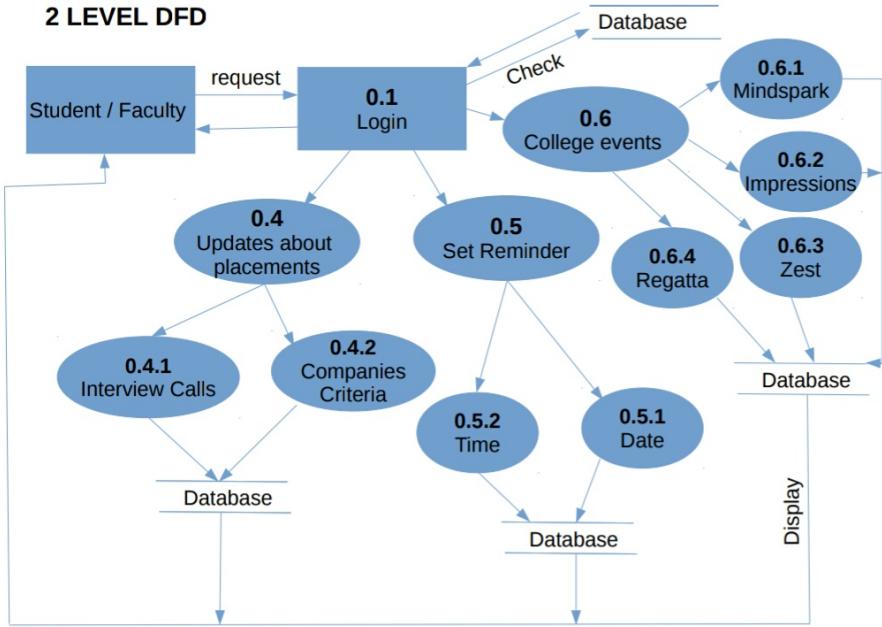
5 Data Flow Diagram

0 LEVEL DFD



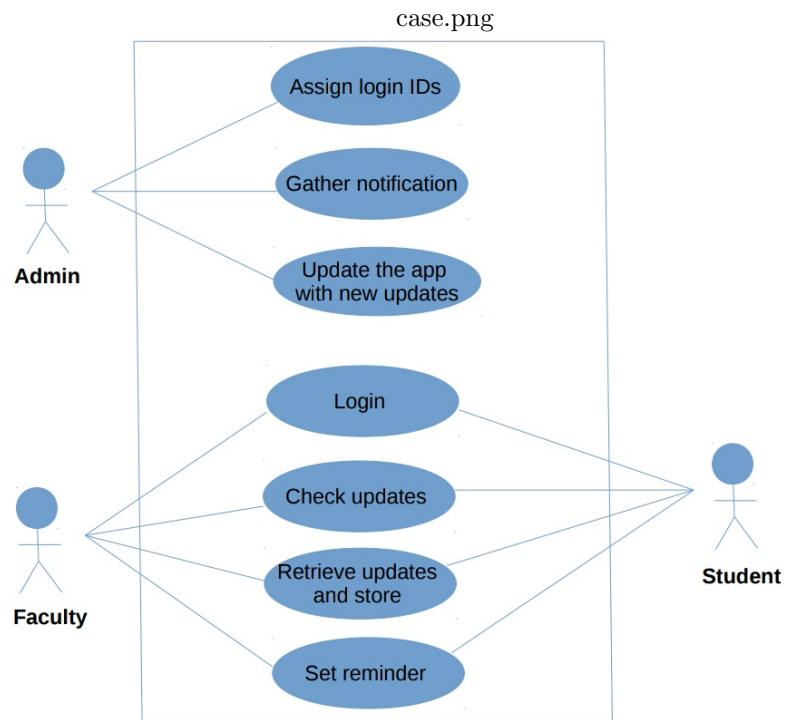


2 LEVEL DFD

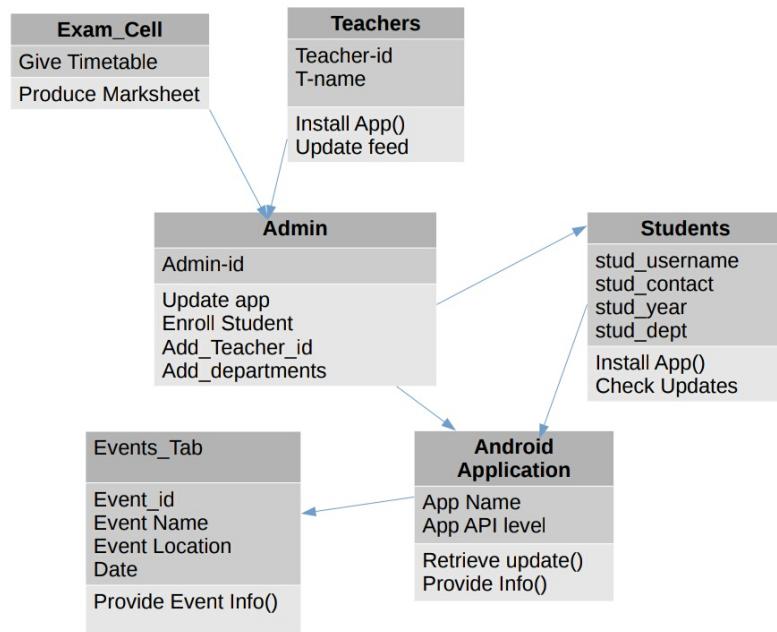


6 UML Diagrams

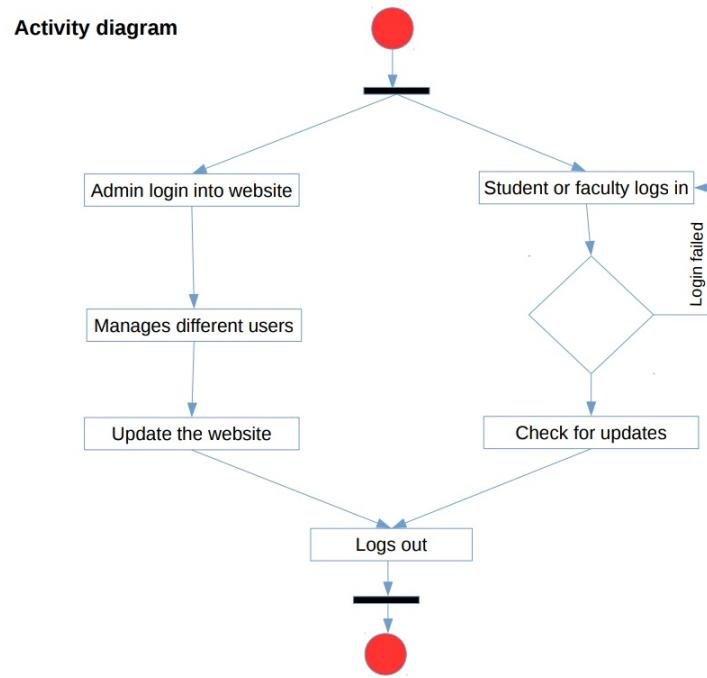
6.1 UML Diagram



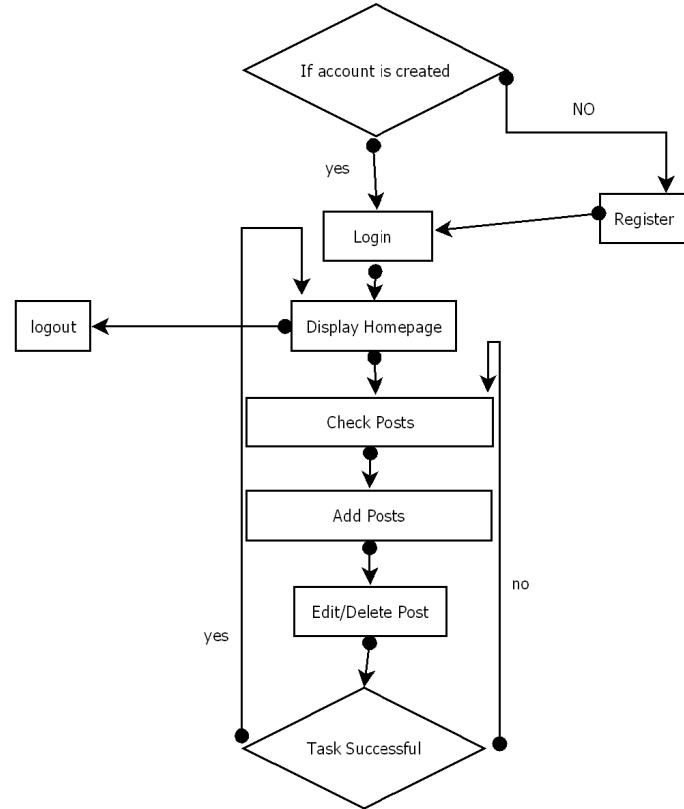
6.2 Class Diagram



6.3 Activity Diagram



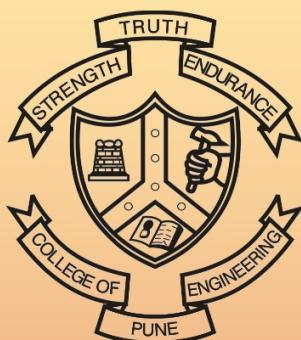
6.4 State Diagram



7 Implementation

15:44

83%



 Email:abc@coep.ac.in

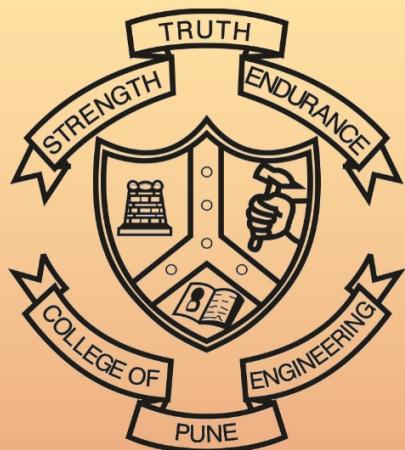
 Password

LOGIN

Don't have an account.Need new account.

15:44

83%



Email: abc@coep.ac.in



Password



Confirm Password

25

CREATE ACCOUNT

About

*COEP News Feed App
is an android applica-
tion for the students of
COEP to stay updated
with the news of the
college.*

*Login with your COEP
email accounts and
use the services of the
app. #StayConnected.
Version 1.0.0*

15:44

83%



@rathidevеш37

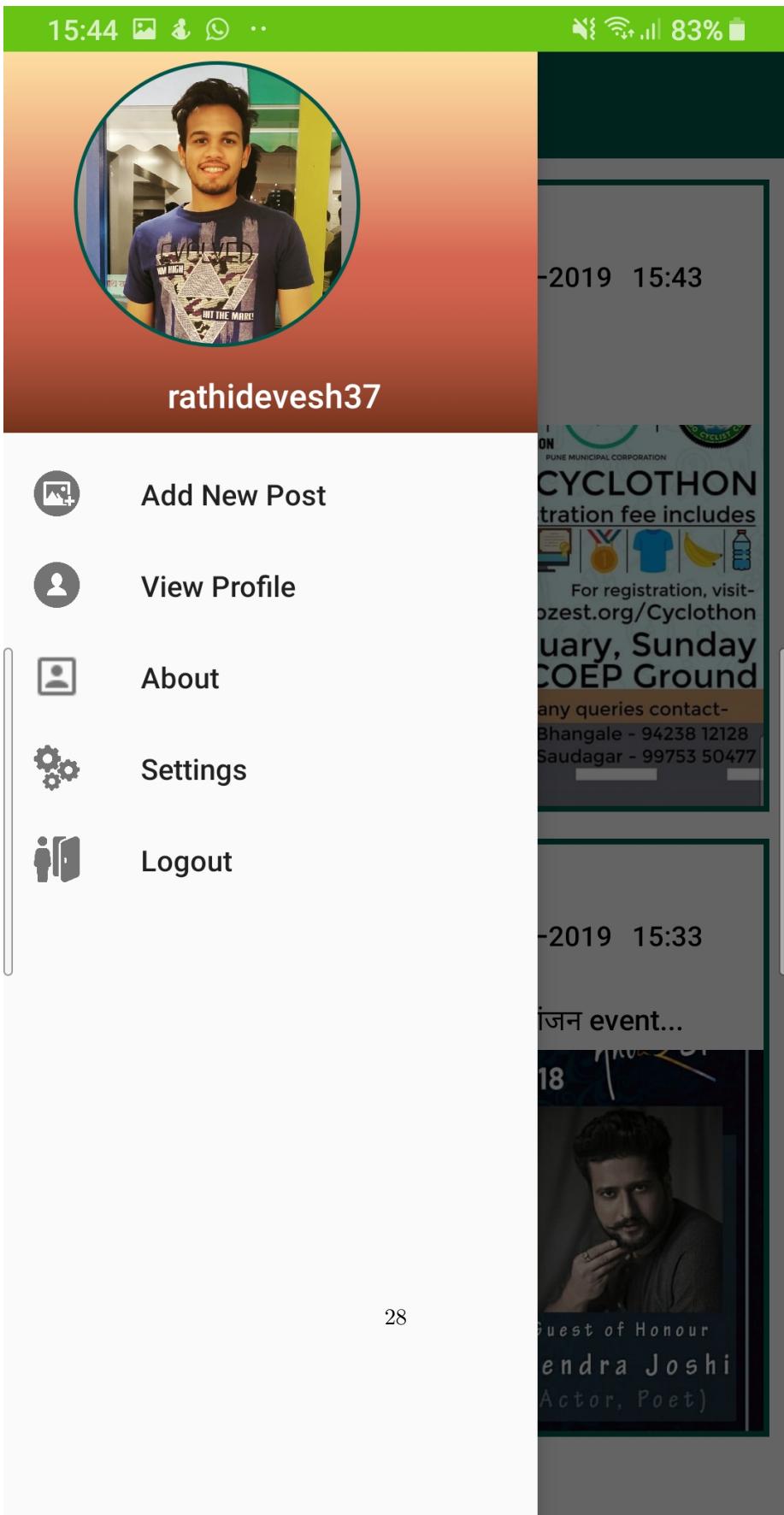
MIS:111608055

Branch:IT

DOB:11/08/1998

Year:TY

Gender:Male



15:44 83%

Home

 **rathidevеш37**
has updated a post 15-April-2019 15:43

Enjoy the sports fest of our college!
#Zest19



Powered by FinIQ The Financial Engineering Company In association with IDEAS A SAS COMPANY CYCLOTHON PUNE MUNICIPAL CORPORATION
15 Km - OPEN CYCLOTHON
Registration fee includes
For registration, visit- www.coepzest.org/Cyclothon
13th January, Sunday
COEP Ground
For any queries contact- Rohit Bhangale - 94238 12128 Rohit Saudagar - 99753 50477

 **SohmPatil**
has updated a post 15-April-2019 15:33

Please attend this very interesting काव्यांजन event...



Annual Social Gathering'18
कविसंमेलन् २०१८
काव्यांजन
दुर्गा काव्यस्थापनी ...
Guest of Honour
Jitendra Joshi
(Actor, Poet)
13 March 29
3:30 pm
Main Auditorium

8 Project Estimation

8.1 Lines of Code

2700 lines of code

8.2 COCOMO Model

Efforts:- 3 Persons 8 Months of Work

Project Type:

Organic-

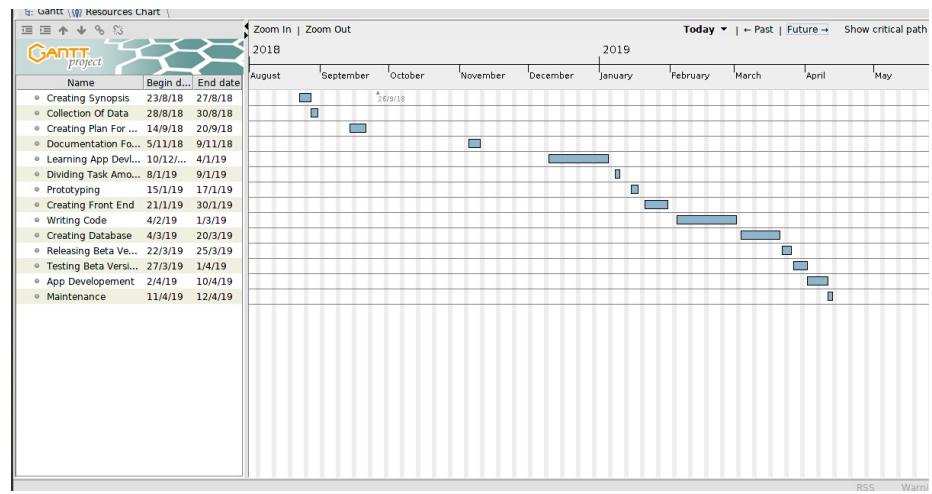
A software project is said to be an organic type if the team size required is adequately small, the problem is well understood and has been solved in the past and also the team members have a nominal experience regarding the problem.

Basic cocomo model $a = 2.4$, $b = 1.05$

$$E = a(KLOC)^b$$

$$E = 9619.293901$$

9 Project Scheduling Executed



10 Testing

10.1 Unit Test Cases

Test case no.	Test case	Input	Output
1	Registration	Fill the details	Registered successfully
2	Log in	Enter User name and password	Log in successfully
3	Add post	Add post	Post added successfully
4	Update account profile	Edit profile	Profile updated successfully
5	Logout	Click on icon	Logged out Successfully
6	Edit post	Click on Edit icon	Changes saved successfully
7	While creating new account	Enter password with at-least 6 digits	Record saved
8	Enter email-id	Enter email-id with (@coep.ac.in)	Record Saved
9	Confirmation of password	Enter same password twice	Account created
10	Enter Mis	Enter 9 digit number	Record saved
11	Enter year	Enter any year from(FY SY TY BTech)	Record saved
12	Upload profile photo	Click on upload profile	profile photo uploaded
13	Refresh	Pull down the screen	Refreshed
14	Setup Activity	Fill the details	Can Access App
15	Delete Post	Tap on the post and delete button	Record Deleted
16	About Page	Read the details	Can get Details
17	Post Description	Enter details of post	Read post details
18	View Profile	Tap on View Profile	Can get Details
19	Settings	Enter Gender	Can know male or female
20	Settings	Enter Date of Birth	Can get birthday details

10.2 Integration Test

Test Scenario	Test case	Expected Result	Actual Result
Starting app	Synchronization in homepage	Positive	Positive
Network scenario	Verify the interface link between network	Should work with even low speed	Worked with moderate speed
Database	Database consistency with live active users	Database should not crash	Database did not crashed

11 References

1. <https://www.ieee.org/>
2. <https://nevonprojects.com/>
3. <https://www.ijaret.org/>
4. <https://www.androidauthority.com/>
5. <https://www.projectsgeek.com>
6. <https://www.educba.com/>
7. <https://www.udacity.com/>
8. <https://www.udemy.com/>