

CS551

Advance Software Engineering

Final Project Report

ASK UMKC Team #12

By

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User Manual

Introduction:

The main motto behind developing this project is to help the students who decided to know about the University of Missouri Kansas City(UMKC). When we decided to get into UMKC, we didn't know anything about the Kansas City place, about complete fee structure, accommodation, regarding subject enrollment etc. These are the few problems which we have faced when we came to Kansas City to join in UMKC.

So to help the new joining students and to help the already existing students we have developed this App. Not only Academic and Non-Academic student can ask anything, he can post his question in this application. Once his question gets posted some of the already existing students or school staff can answer those answers.

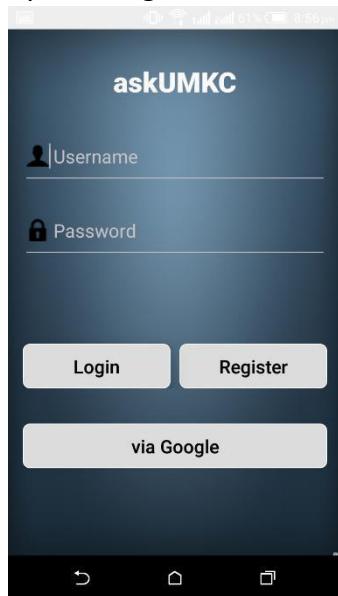
How to Use the Application:



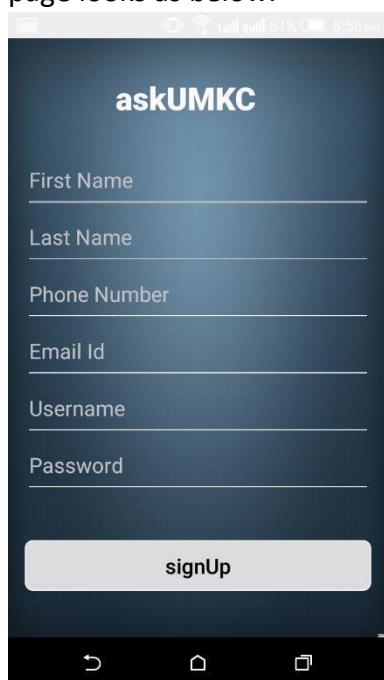
askUMKC is our app name. on clicking on this app it will navigate to navigation page.



- on selecting the app, it will navigate to login page as shown below. Here user can choose either his Google account details to login into the application or he can login by entering the credentials which he has created while registration.



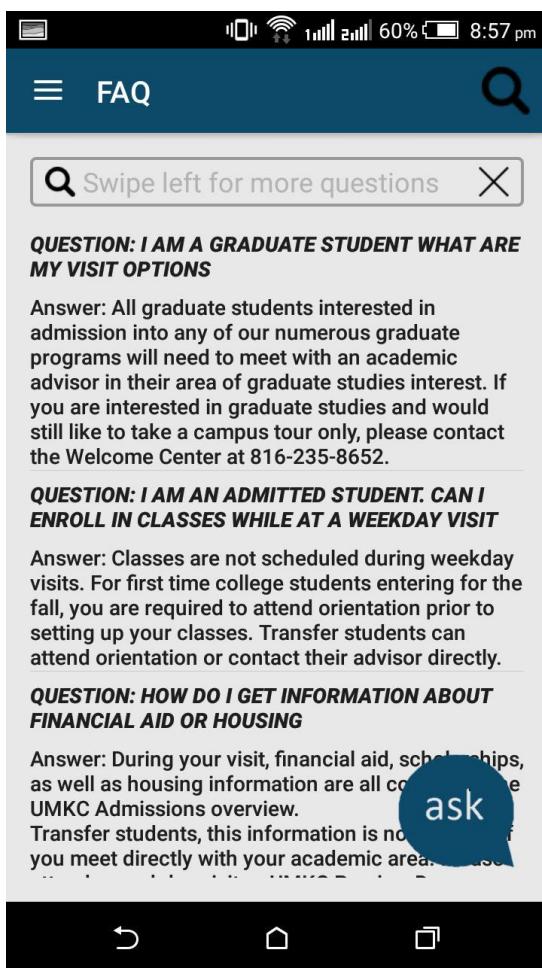
- For those people who have downloaded the app for the first time and who doesn't want to use their Google credentials, they have to register themselves. And the registration page looks as below.



Here all the fields are mandatory and he have to fill every detail. If he misses any field or if he

doesn't want to give any one of the field also the application doesn't allow him to register.

- Once he registers in to the application, he has to enter his login credentials to login into the application. Validation is done on this login page and user with correct credentials only can enter into this application. Once he enters his details he will be directed to the FAQ page where he can find the frequently asked questions. The screen looks as shown below.



There are multiple things which user can perform from this page. He can ask his question or he can read all the existed questions from this page or he can search for a particular question in this page and there are multiple options if he swipes left in the screen.

- If he wants to ask a question, the first thing he has to do is click on the ask symbol which is present at the bottom of the screen. He has to select one category from the categories present in this screen before he posts a question. And user can either enter the question on his own or he can say the question as we have included "speech to text"

feature in this screen which converts speech into text and on clicking the post button he can post his question.



Select a Category

Non-Academics

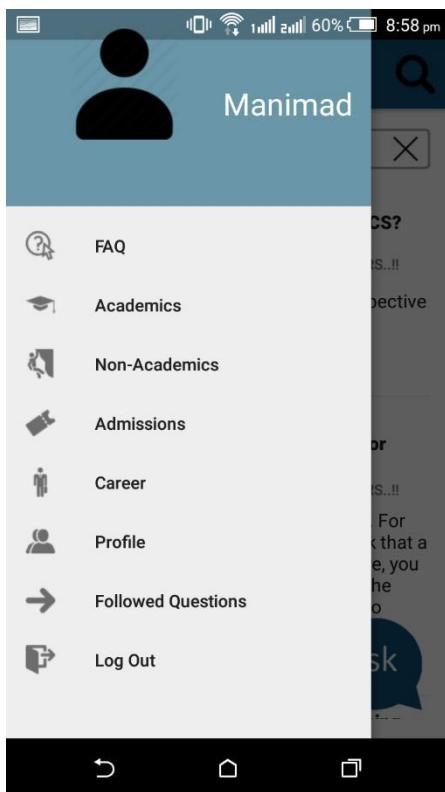
Question.....



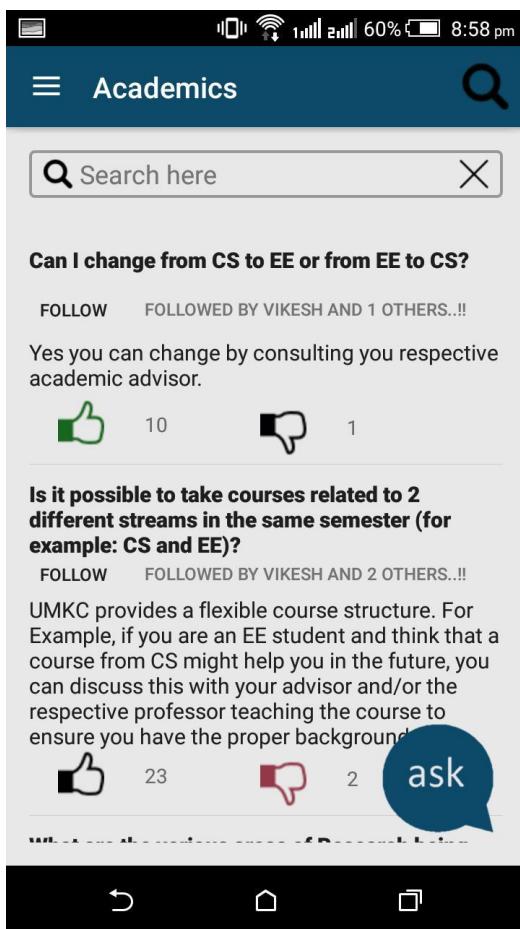
POST



If he wants to look for other questions, he can swipe left in the home screen page so that he will be shown below screen.



- He can select either Academics, Non-Academics, Admissions, Career, Profile, Followed Questions anyone from this page. For suppose if he selects the Academics section the app will navigate to the Academic screen which looks as below



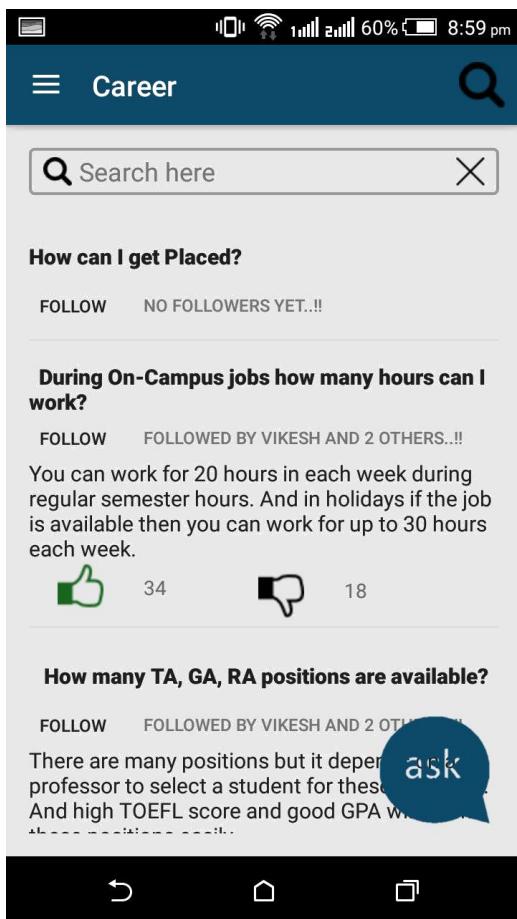
- Top of the screen we are showing in which screens he is. If he is in Career Screen, the heading will be "Career". Here he can search for academics related questions or he can post a question or he can read the answers and write his own answers. If he wants to answer any question from this section, he has to click on the desired question. On clicking the question, he will be re-directed to a screen where he can answer and the screen looks as below.

The screenshot shows a smartphone screen with a dark blue header bar at the top. On the left of the header is a small icon, and on the right are icons for signal strength, battery level (60%), and the time (8:59 pm). Below the header is a teal-colored section labeled "AnswerList". The main content area has a white background. At the top of this area is a question in bold black text: "How can I get information about financial aid or housing?". Below the question is a detailed answer in black text: "Answer: During your visit, financial aid, scholarships, as well as housing information are all covered in the UMKC Admissions overview. Transfer students, this information is not covered if you meet directly with your academic area. Please attend a weekday visit or UMKC Preview Day." Underneath the answer are two interactive icons: a green thumbs-up icon followed by the number "73" and a grey thumbs-down icon followed by the number "8". A horizontal line separates this from a blue rectangular button at the bottom containing the white text "WRITE YOUR ANSWER..!!". At the very bottom of the screen is a black navigation bar with three white icons: a circular arrow, a house, and a square.

On clicking the Write Your Answer button, he can answer to this question. If there are multiple answers to a particular question, all the available answers will be displayed here. In the Academics screen we are displaying only one answer to any question. He has other options like up voting the answer or he can down vote the answer. User can perform only one thing among both.



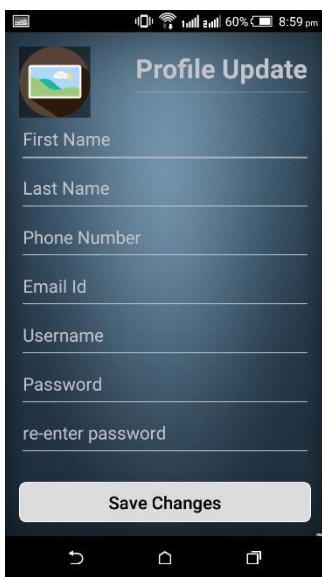
For suppose he wants to follow some of the questions which are related to career, he will be selecting the career screen and same as shown above for Academics screen, career screen will be displayed and he will have some more options to perform on this page like following and unfollow.



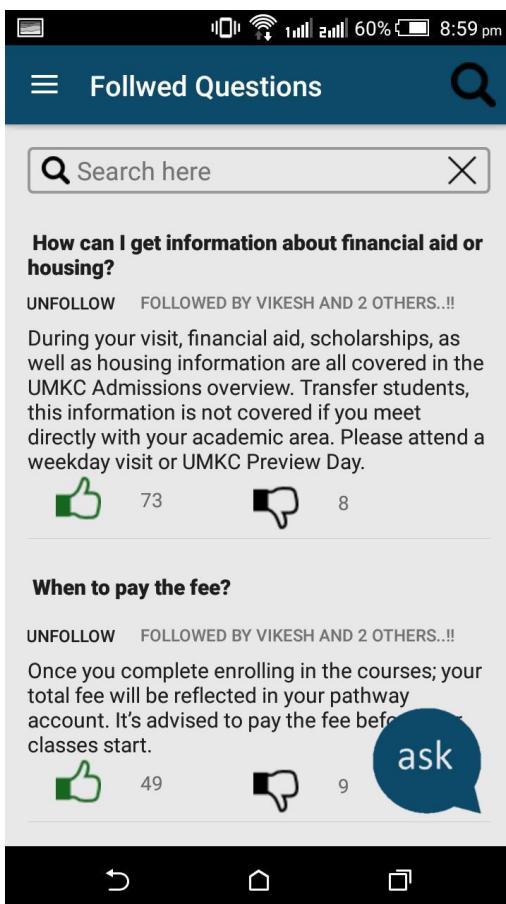
If he follows a question he will be sent a notification to his mail if someone answers the question which he followed. And if he wants to unfollow the question he can select unfollow option.



Everybody wants to change some of the details in the application like his first name, last name, phone number etc. so we have provided a profile update page where he can update his details. From all the existed details he cannot update his username and Email id which are saved permanently once he creates his account. Other than that he can modify any of his details. He can also upload his picture in the application. Below image shows the screen of the profile update page.



- If a user wants to see what are the list of questions he is following, he has to select the “Followed Questions” when he swipes the screen toward left. If a user selects that option below screen will be displayed where he can see list of questions he is following.



These are the questions where a particular user can see his followed questions.



Below screen show Non-Academics, Academics and Admissions screen.

The screenshot shows a mobile application interface. At the top, there's a dark blue header bar with a white 'Admissions' title. Below it is a search bar containing the placeholder 'Search here'. The main content area features a question titled 'Is transferability really an issue?'. Underneath the question, there are two small text blocks: 'FOLLOW FOLLOWED BY VIKESH AND 2 OTHERS..!!' and a detailed answer about academic requirements. Below the answer are two large, semi-transparent icons: a thumbs-up icon with the number '89' and a thumbs-down icon with the number '0'. A blue speech bubble with the word 'ask' is overlaid on the right side of the answer. At the bottom of the screen, there's a black navigation bar with three white icons: a circular arrow, a square, and a rectangle.

Is transferability really an issue?

FOLLOW FOLLOWED BY VIKESH AND 2 OTHERS..!!

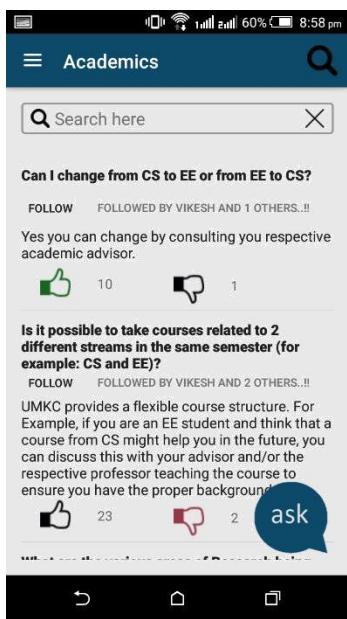
Yes, students are not as free to explore different academic areas due to general education requirements being so different between units. Many people are not sure exactly what area they wish to major in when they first begin their college education. By having common general education requirements, students will be able to more easily use these credits if they change their major. However, the changes to general education requirements will not have an impact on the degree of difficulty related to transferring between majors when it comes to the major requirements.

89 0

What if I did not receive my I-20 Yet?

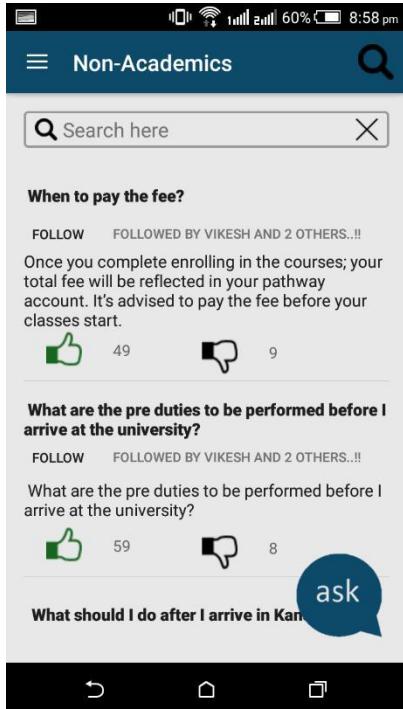
FOLLOW FOLLOWED BY VIKESH AND 2 OTHERS..!!

Above one is the Admissions page screen with list of questions which are related to Admission section.



This is the Academics screen.

- Below one is the Non-Academics screen.



These are the main steps or options which user can take to use this application efficiently.

There are no bugs from the features which we have developed in this application. We are Planning to improve some GUI part of the application. The application will be more useful and can be improved better if we have included message alert to the user along with the mail notification when someone answers the questions which user is following.

Team Collaboration

Use cases handled by Sravan:

Search operation. User should be able to search based on anything, question, answer, any category. As soon as “x” mark is touched, application will present a screen with some important questions from all the categories.

Parsing mongoDB data into list view in the home screen.

Each answer has some credibility. All users can update the correctness of an answer by selecting upvote or downvote. Based on the number of upvote's and downvote's user will be able to decide best answer in case of conflicting answers.

User can access side menu by swiping from left or by touching menu at top left corner. In the menu user can select different categories – Academics, Career, Financials, Non – academics and profile update, followed questions, logout.

Use cases handled by Vikesh:

User will have an option to follow questions. User should be able to see all the questions which he/she is following by pressing “followed questions” option in side menu.

User will get a gmail notification whenever an answer is given by others to the followed questions. Gmail notification will contain the question and all the answers given to that particular question.

By pressing a question on home screen detailed view of that question is presented in another screen where all the answers to a particular question can be seen. User should be able to add a new question and select ‘upvote’ or ‘downvote’ for answer.

Vikesh worked on updating and deleting documents in MongoDB.

Use cases handled by Architha:

Register page lets user create profile so that he/she can use application seamlessly. User needs to provide very basic details like name, email, phone number, username and password.

Creating a question, user should be able to create a question and user needs to select a category in which the question belongs to. User types a question and posts by clicking on “post” button.

Archita worked on creating data in mongoDB from android.

User will have an option to update his profile. Change name, phone number, password. User can update his/her profile image here.

Use cases handled by Manikanta:

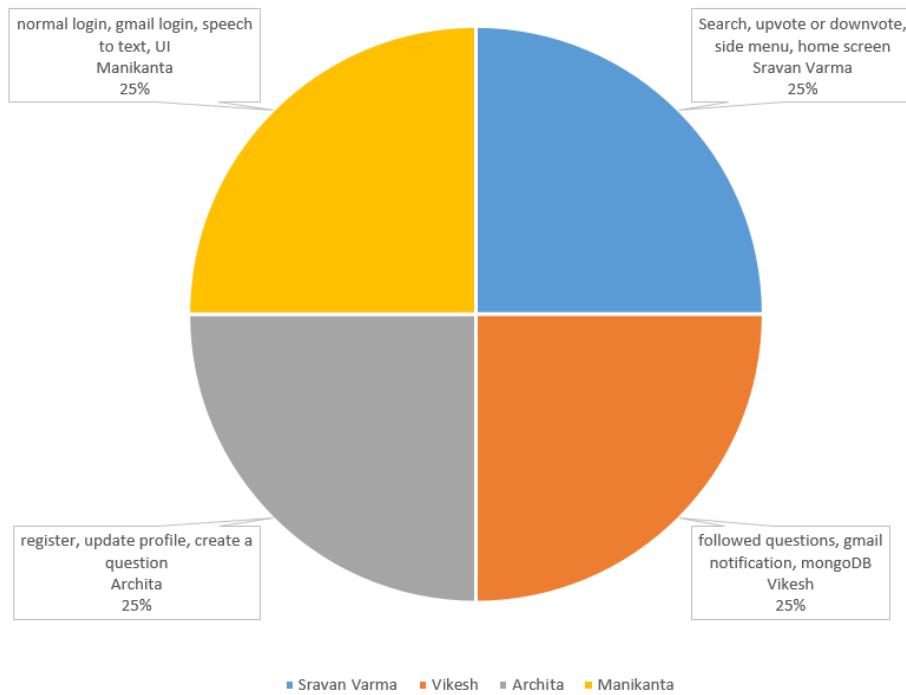
User will be able to login to application by providing username and password. Or user can login using gmail account. But profiles will be similar in both the type of login. User cannot create two profiles by using same gmail id.

User write a question by pressing ask question. User can use speech to text conversion option available to write a question. And can post it after checking it and editing it.

Manikanta worked on UI of the mobile application.

User will be able to select only one of the two options – ‘upvote’ and ‘downvote’. If user wishes to change his choice for a particular answer, then the count should be updated and choice needs to be updated in mongoDB.

Team Collaboration



ASE Project Increment1

Group# 12: Project “Ask UMKC “

Group Members:

- Sravan Kumar Appana
- Vikesh Padarthi
- Architha Mukka
- Manikanta Maddula

Objective:

Create an android application which helps students of UMKC in clearing their doubts in all domains like fees, course, sports etc. and answers are replied by other students or any other registered user.

Introduction:

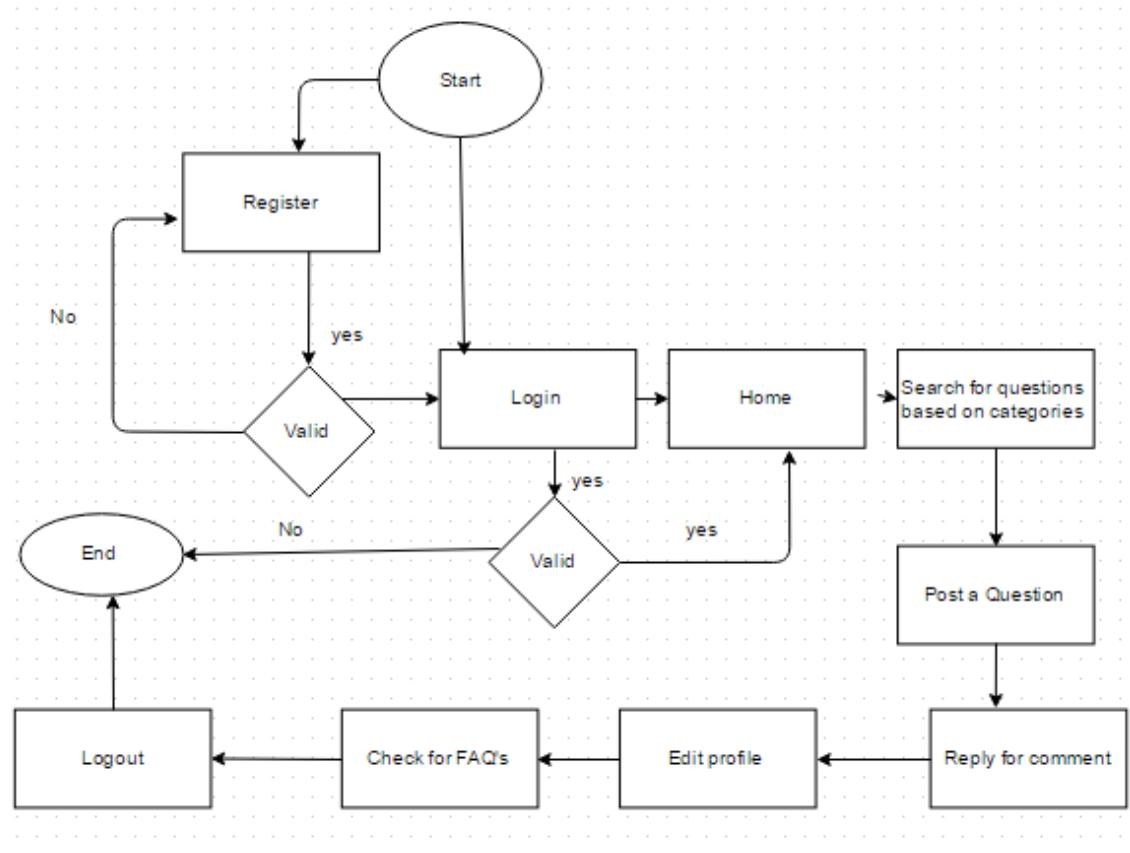
Name of the application “Ask UMKC”.

The App is about questionnaires which can be posted by any user and any registered user can answer the question. The questions need not to be in specific area like finance, course and sports etc., it can be of any topic related to university activities like events, career, etc. Any new student or a student who wants to join UMKC will have many doubts like ‘last date for paying fee’, ‘where is a particular event’, ‘Student associations ’etc. It is easy to drop a mail to the authorities asking for details but if answer is needed on weekends and on holidays, it’s difficult. But with this application answer can be found on any day and time.

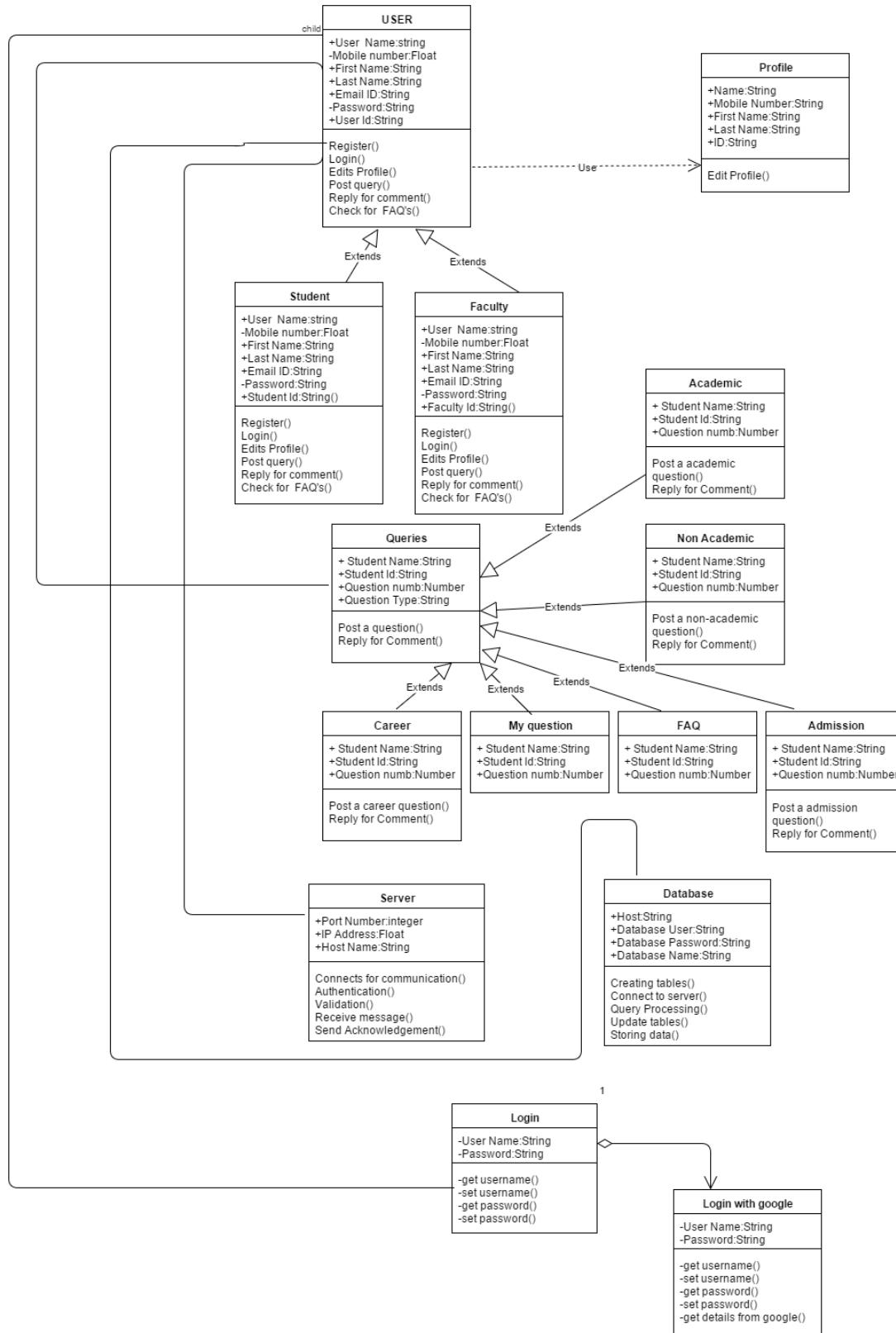
Users can login to app using their Google account or they can sign up for the account. After successful login, home page will contain questions displayed as a list in reverse chronological order. User can scroll to different questions. Clicking on a question will display complete question and answers given to them or user has a feasibility to answer. There is an up vote option to decide the authenticity of an answer. In the menu, user has options to select a category: ‘Academic’, ‘Nonacademic’, ‘Admissions’, and ‘Career’. Menu also has ‘update profile’, ‘logout from

application', 'My questions' and FAQ. User can ask a question from home page by clicking 'Ask' button.

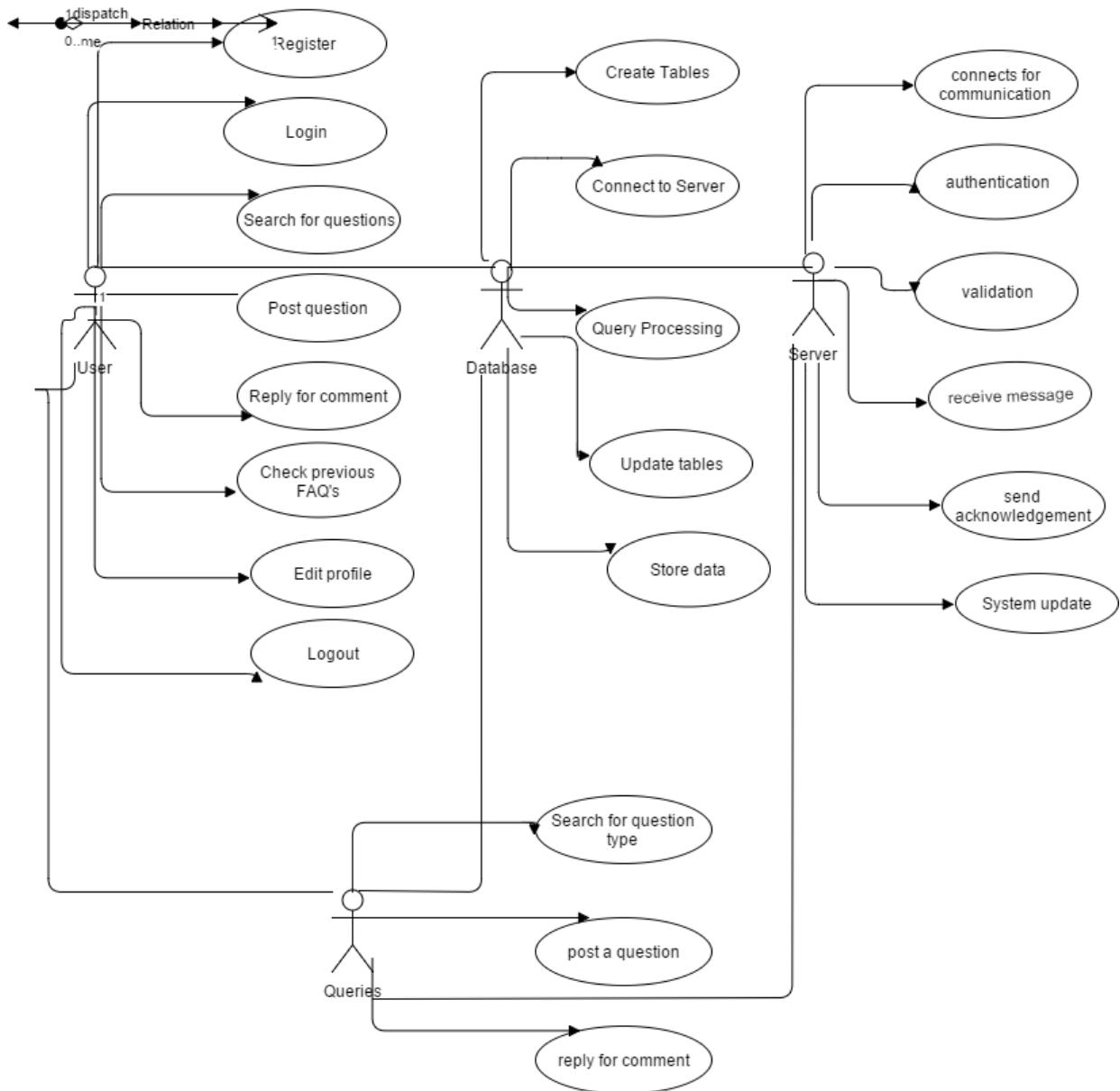
Architecture:



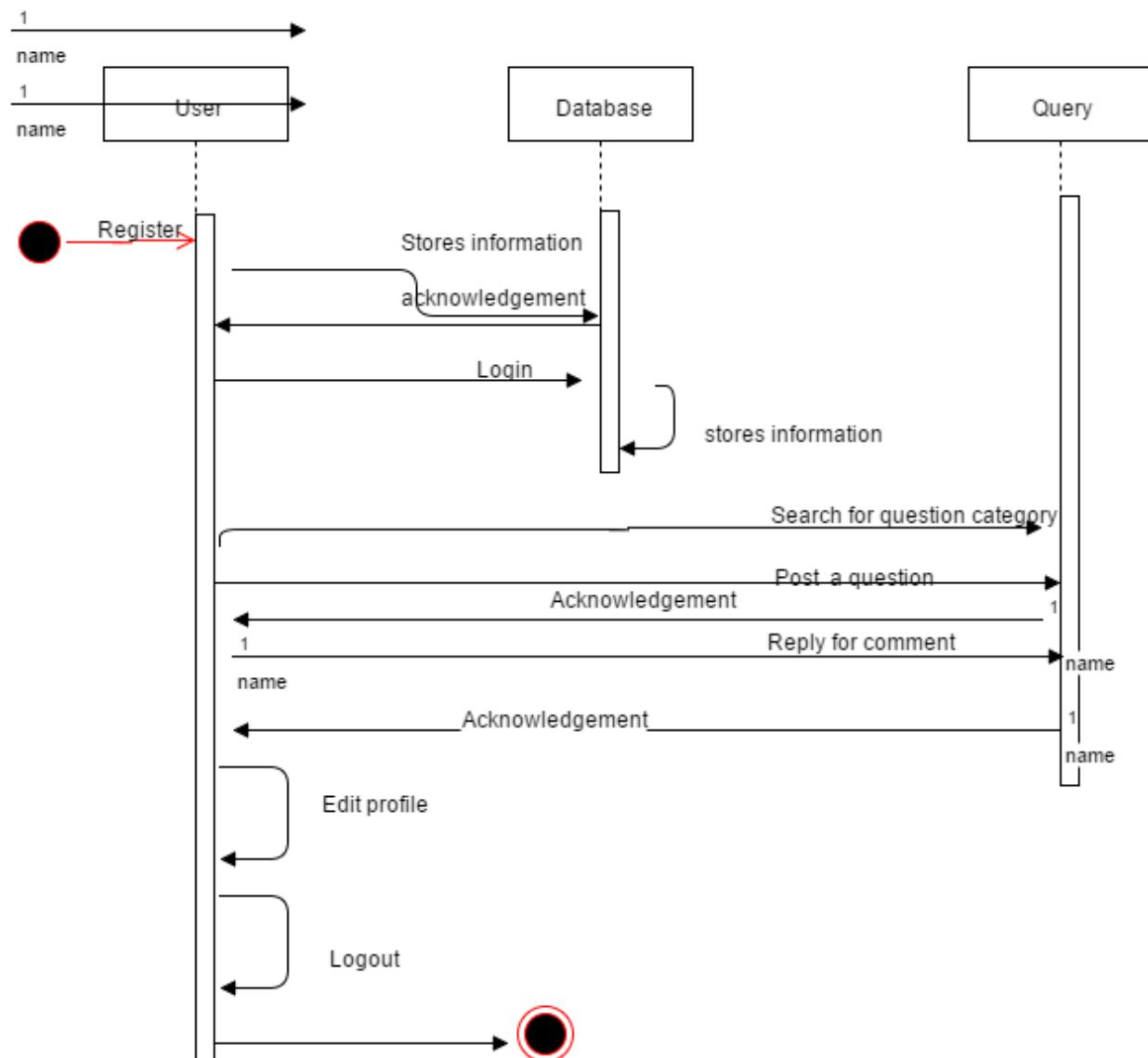
Class Diagram:



Use Case Diagram:

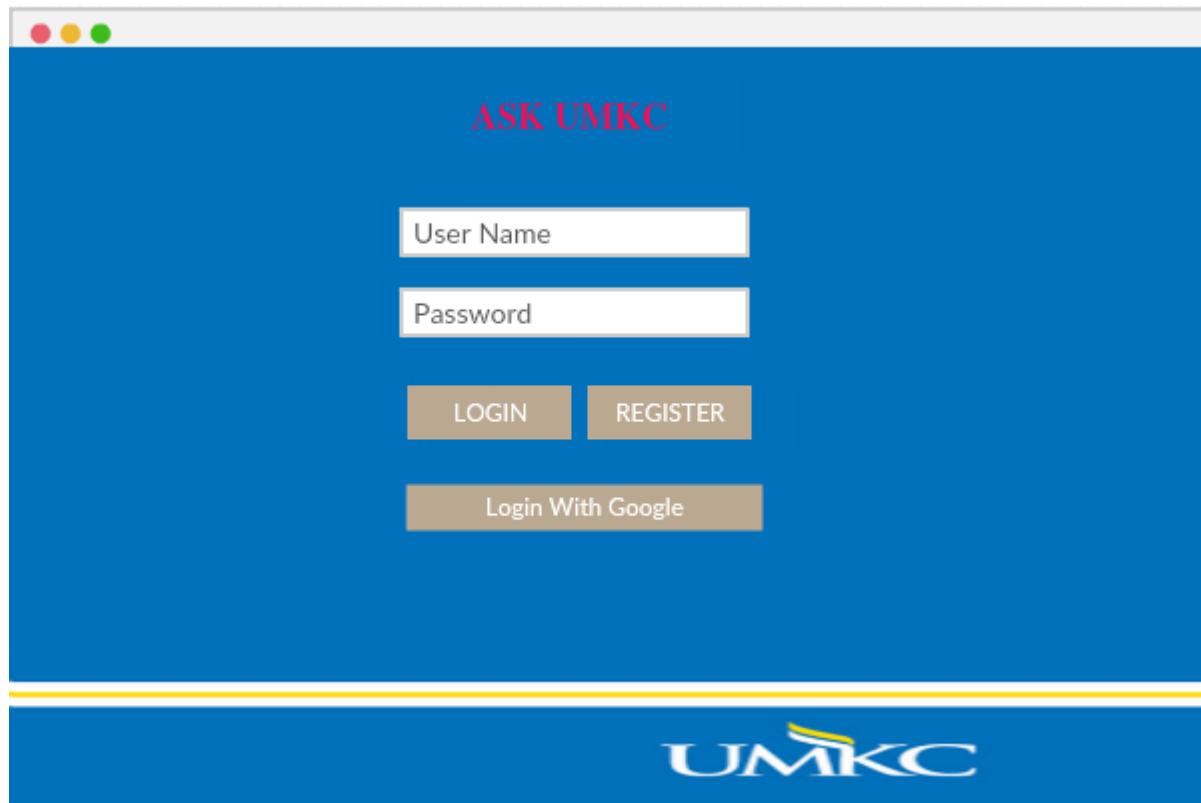


Sequence Diagram:



Wireframes and Mockups:

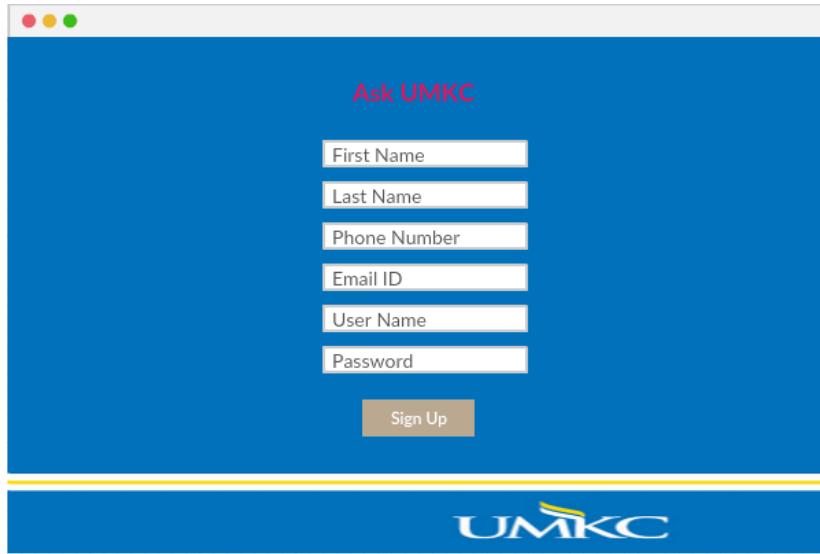
Login Screen:





User can login using google account or with the username and password. New users can register themselves with Register button that is available.

Register:

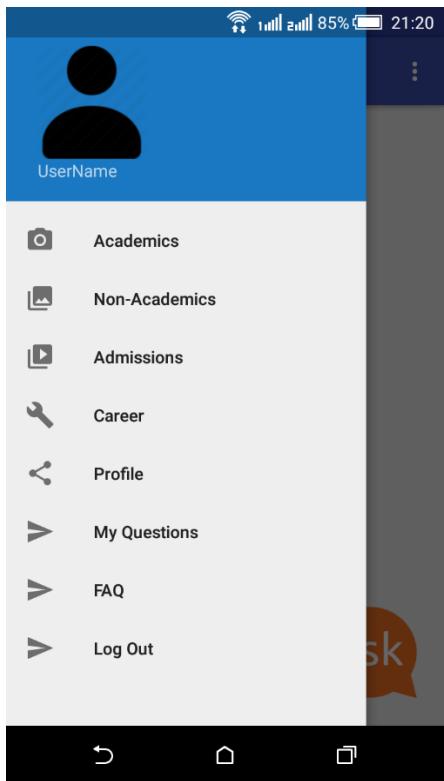
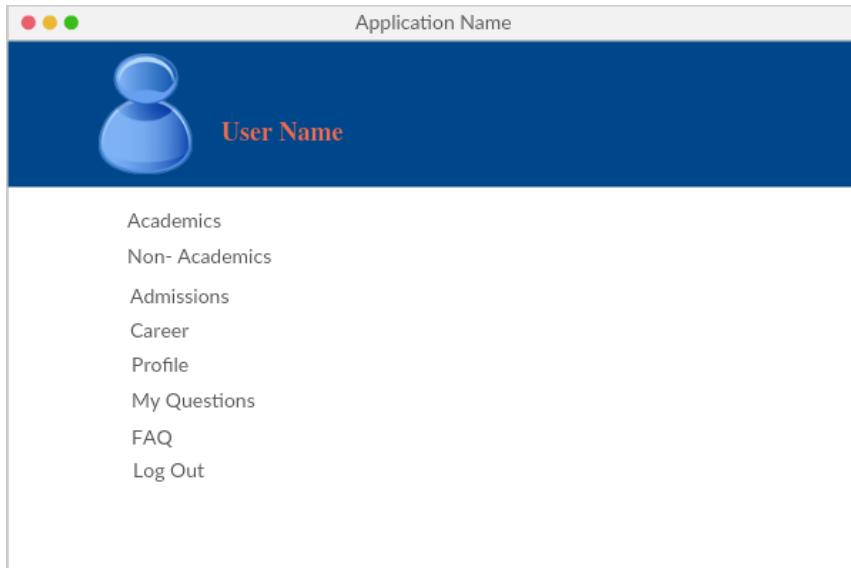


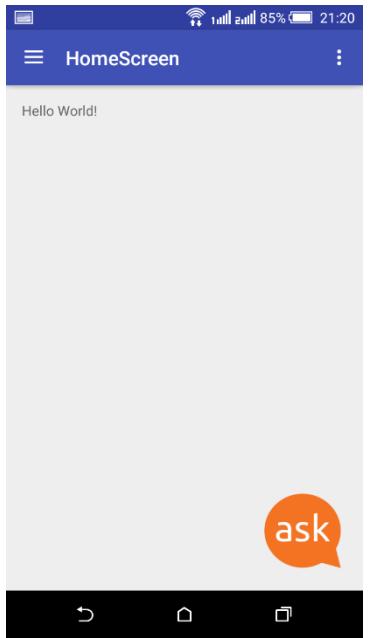


User who want to register, will have to fill a form containing basic information like, First Name, Last Name, Phone Number, Email Id, User Name, and Password. All the fields are mandatory to become a registered user. After successfully registering, user will be redirected to login page and user has to login to view home page.

Home Page:

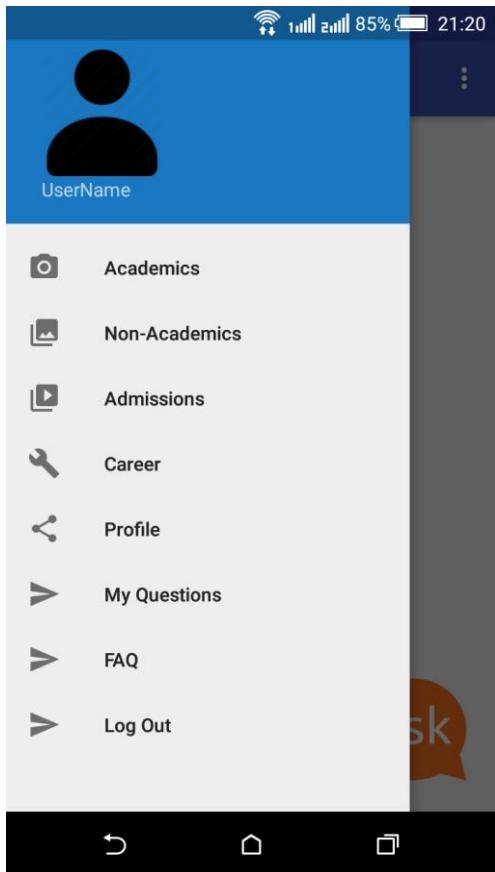
After successful login user will be redirected to home page where user sees all questions in a list view. User can scroll down to several questions. Questions are presented in reverse chronological order. Home will have menu option as shown in below image. Questions are divided into several categories and presented in menu. Menu will have options to ‘update profile’, ‘My questions’, ‘FAQ’, ‘Logout’. User can ask a question by touching ‘Ask’ button on home page.





Question:

Selecting a question launches a screen where user can see question and answers given to them. User can add an answer here in same page. Here user will have option to up vote an answer.



Profile Update:

User can update various details of his profile like photo, password etc as shown in below screens.



First Name

Last Name

Phone Number

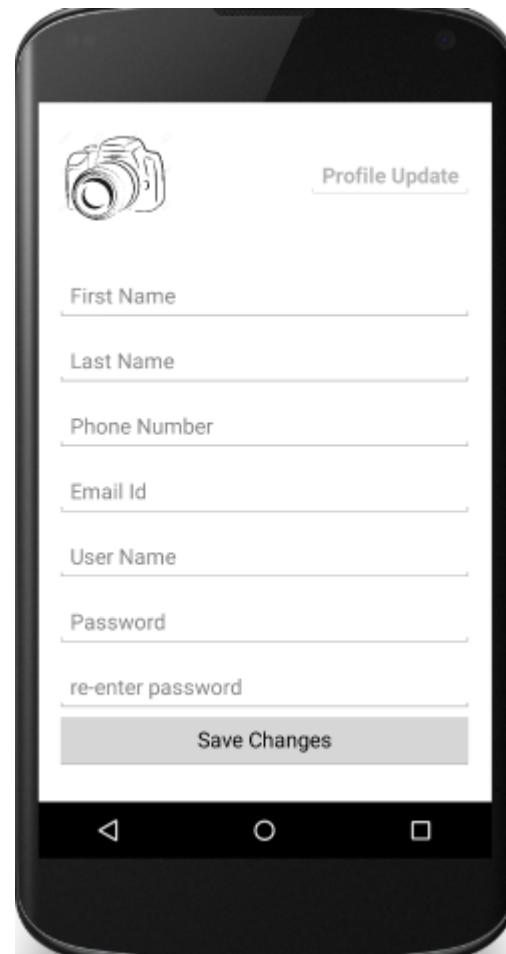
Email Id

User Name

Password

Re Enter Password

save Changes



Ask question:

After touching 'Ask' button in home page, user will be redirected to ask question screen. Here user will have different views to add question, add category.

System requirements:

Operating System: Windows /Linux/Mac OS X

RAM: 2 GB RAM (takes lot of time to run, so 4 GB recommended)

Hard Disk: 400 MB hard disk

Data Base: Mongo DB (can alter depending upon future enhancements)

Servers: Amazon Server (can alter depending upon availability of free online sources)

Software's: Java Development kit (JDK) and Android SDK

Screen resolution: 1280 px * 800 px minimum

Additional: 1 GB space is required for android SDK, images and cache data

Contribution of Team Members:

Each and every team member contributed almost equally. Discussed the ideas and each and every person created one of the requirement documents- Architecture, Class Diagram, Use Case Diagram and sequence diagram. Each and every one created project and package with same names and developed wireframe and mockup screens. Those screens are integrated into single project.

Concern:

There must be a server to validate certain issues like forgot password and sending notifications.

ASE Project Increment2

Group# 12: Project "Ask

UMKC" Group Members:

- Sravan Kumar Appana
- Vikesh Padarthi
- Architha Mukka
- Manikanta Maddula

Introduction:

Name of the application “Ask UMKC”.

The App is about questionnaires which can be posted by any user and any registered user can answer the question. The questions need not to be in specific area like finance, course and sports etc., it can be of any topic related to university activities like events, career, etc. Student who wants to join UMKC will have many doubts like ‘last date for paying fee!’, ‘where is a particular event?’, ‘Student associations’ etc. It is easy to drop a mail to the authorities asking for details but if answer is needed on weekends and on holidays, it’s difficult. But with this application answer can be found at any time.

Objective:

An android application which help students of UMKC in clearing their doubts in all domains like fees, course, sports etc. Answers can be replied by other students or any other registered user.

Features:

Users can login to app using their Google account or they can sign up for the account. After successful login, user navigates to a page with ask button and when滑动 left in home page, app displays various fields like 'Academic', 'Nonacademic', 'Admissions', 'Career', 'update profile', 'My questions' and FAQ. User can select a particular field to question and answer. When a particular field is selected, questions are displayed as a list in reverse chronological order. User can scroll for

different questions. Clicking on a question will display question and multiple answers for it. User has a feasibility to answer in the same page or the user can use the ask button in home page for posting a question and answer. There is a vote up option to decide appropriate answers for every question.

Existing Services or API:

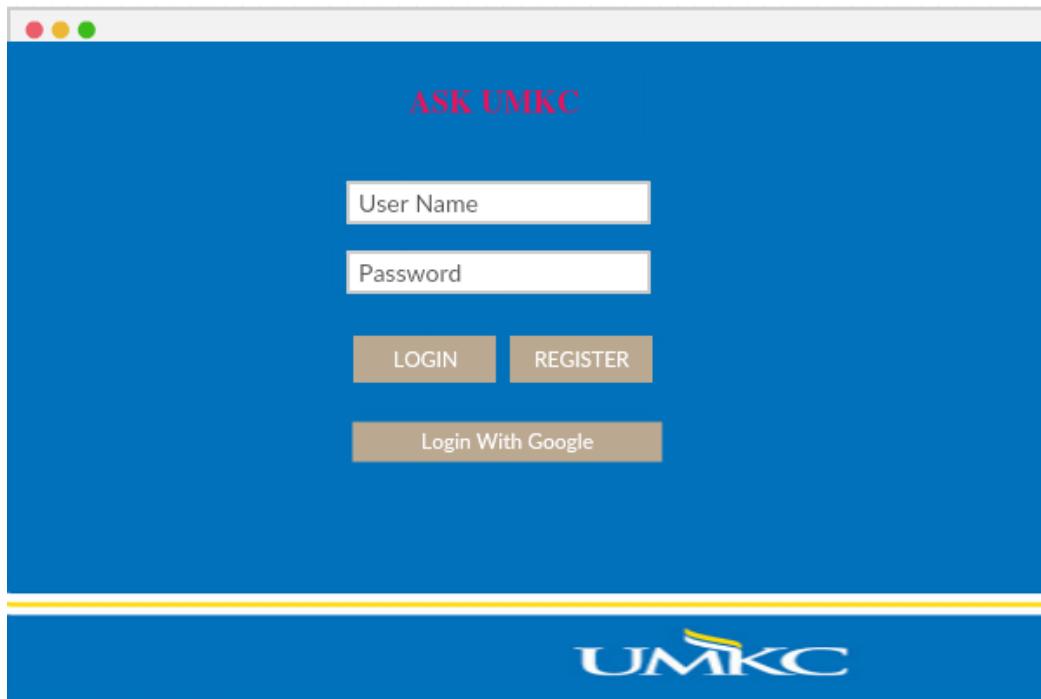
User can sign in to the application using their Google account. Mash up of Google sign in with the application is achieved with the following API:

<https://www.googleapis.com/auth/userinfo.profile>

Design of features:

Wireframes:-

Login Screen:



Register:

Ask UMKC

First Name

Last Name

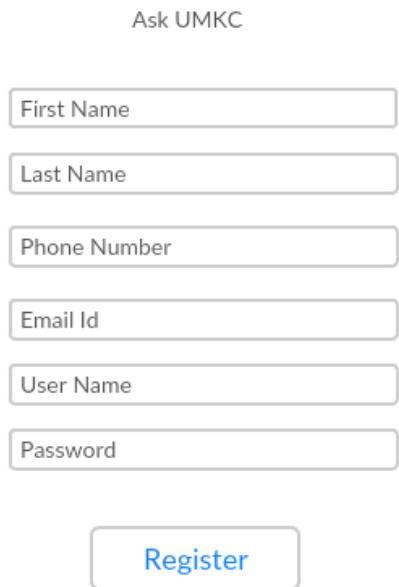
Phone Number

Email Id

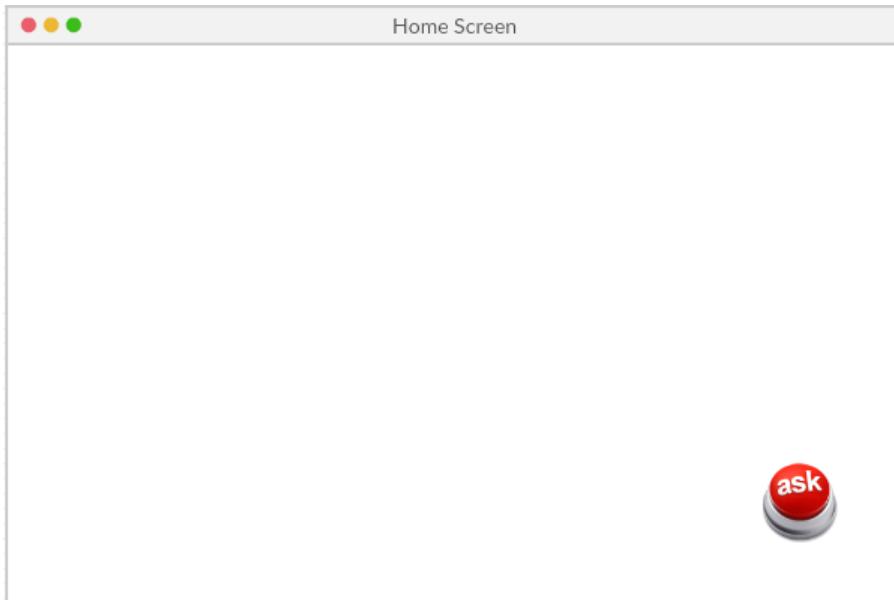
User Name

Password

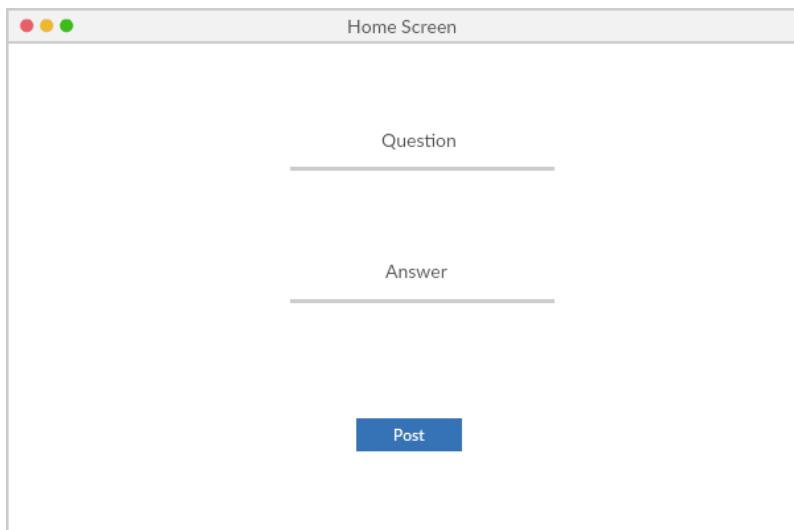
Register



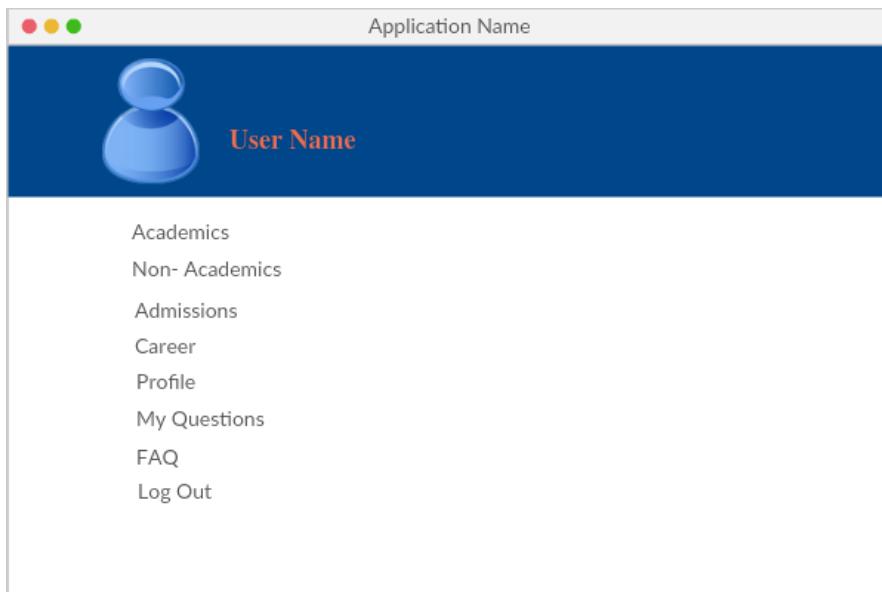
Homepage:



Ask question:



Categories:



Profile update:



First Name

Last Name

Phone Number

Email Id

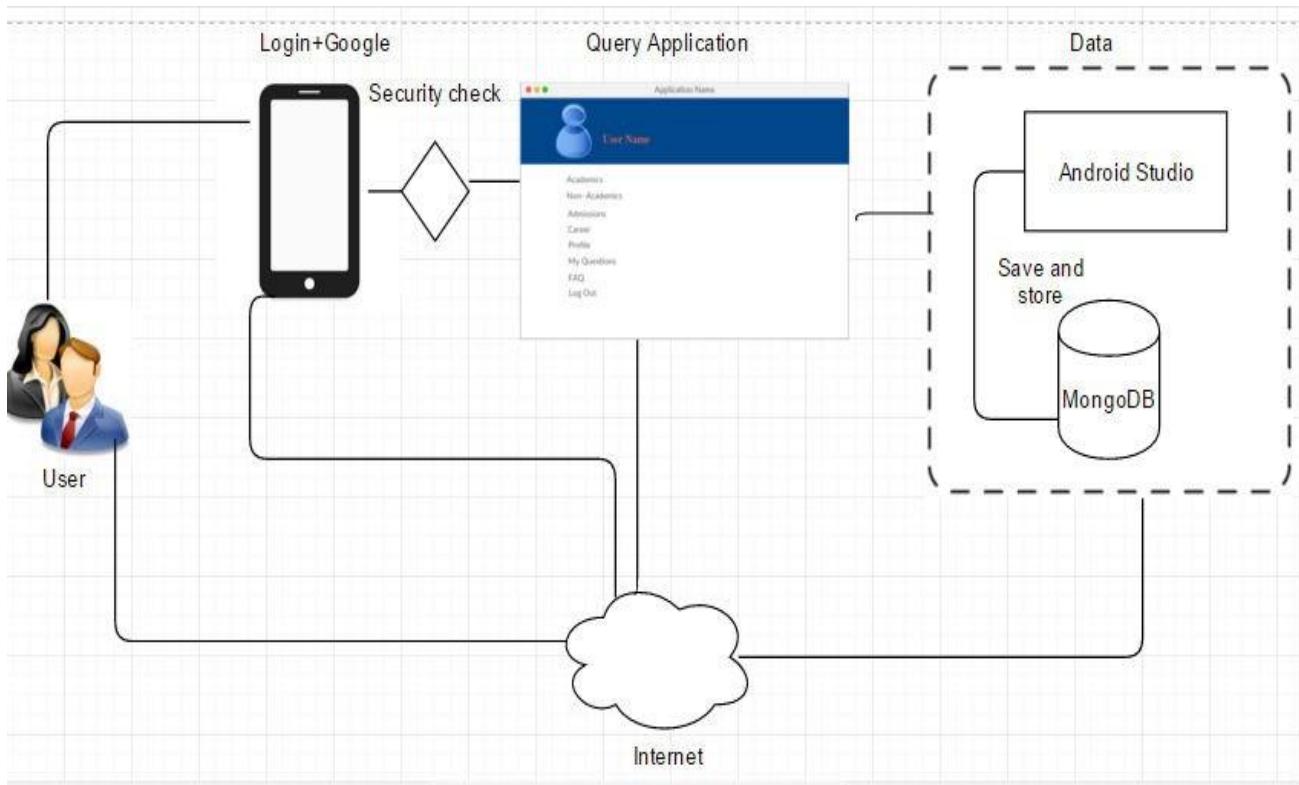
User Name

Password

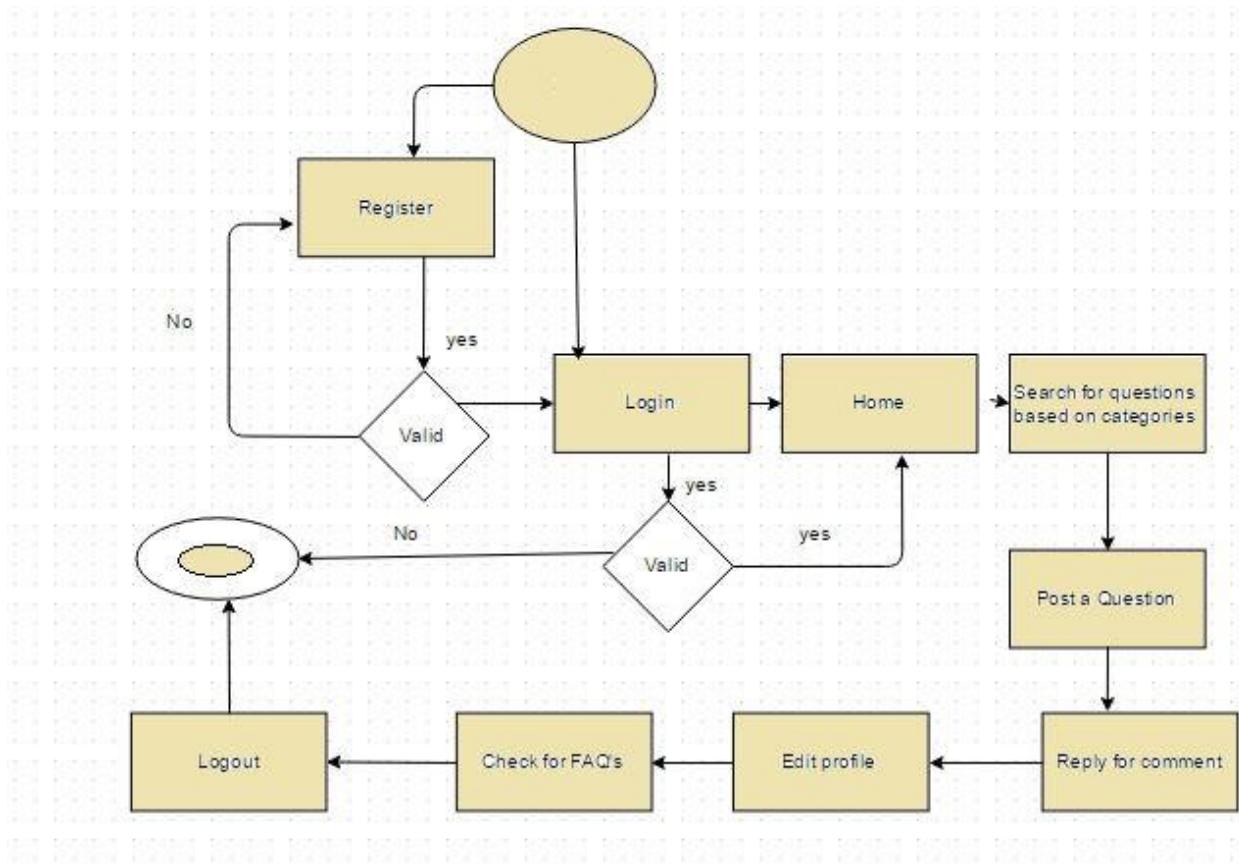
Re Enter Password

save Changes

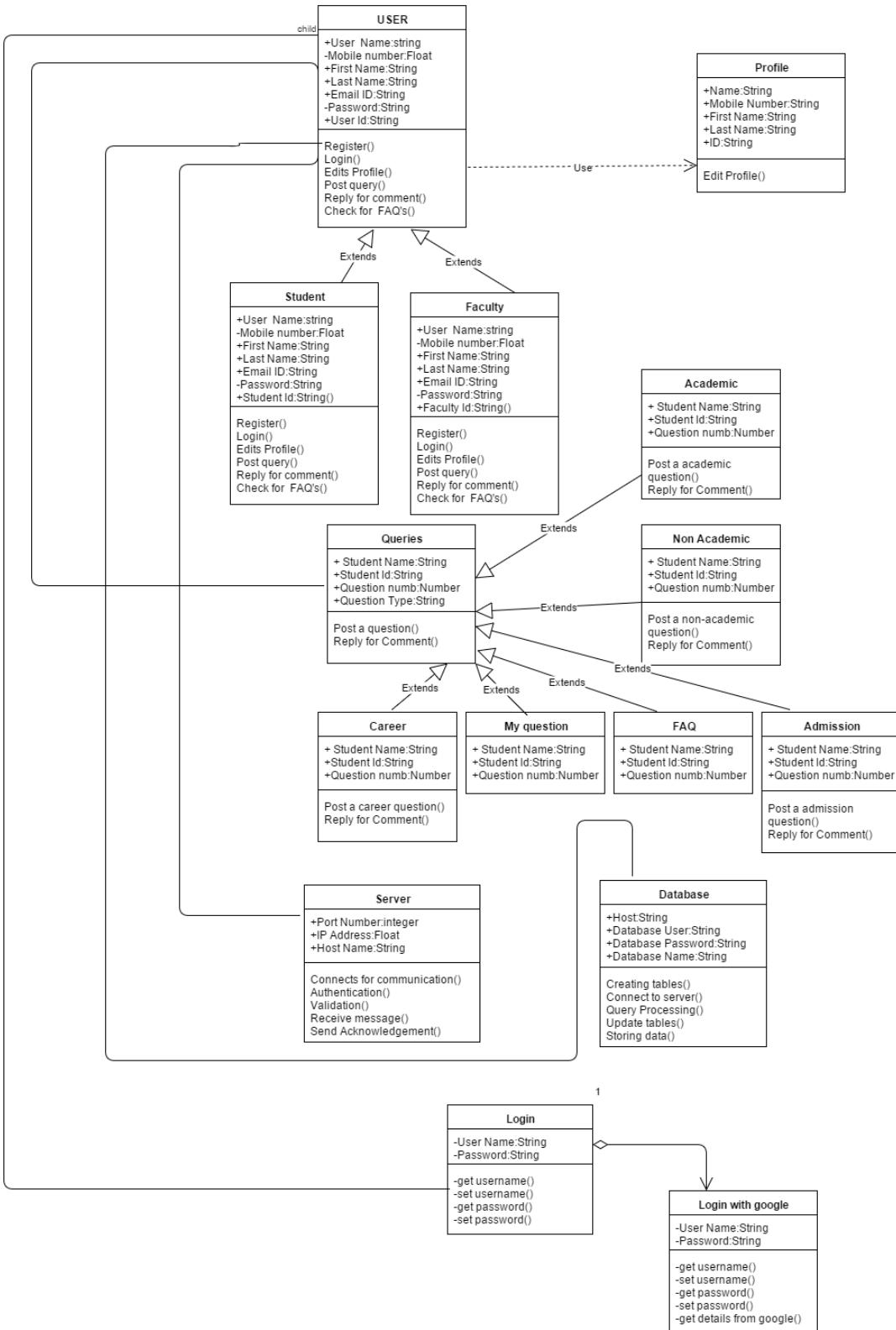
Architecture Diagram:



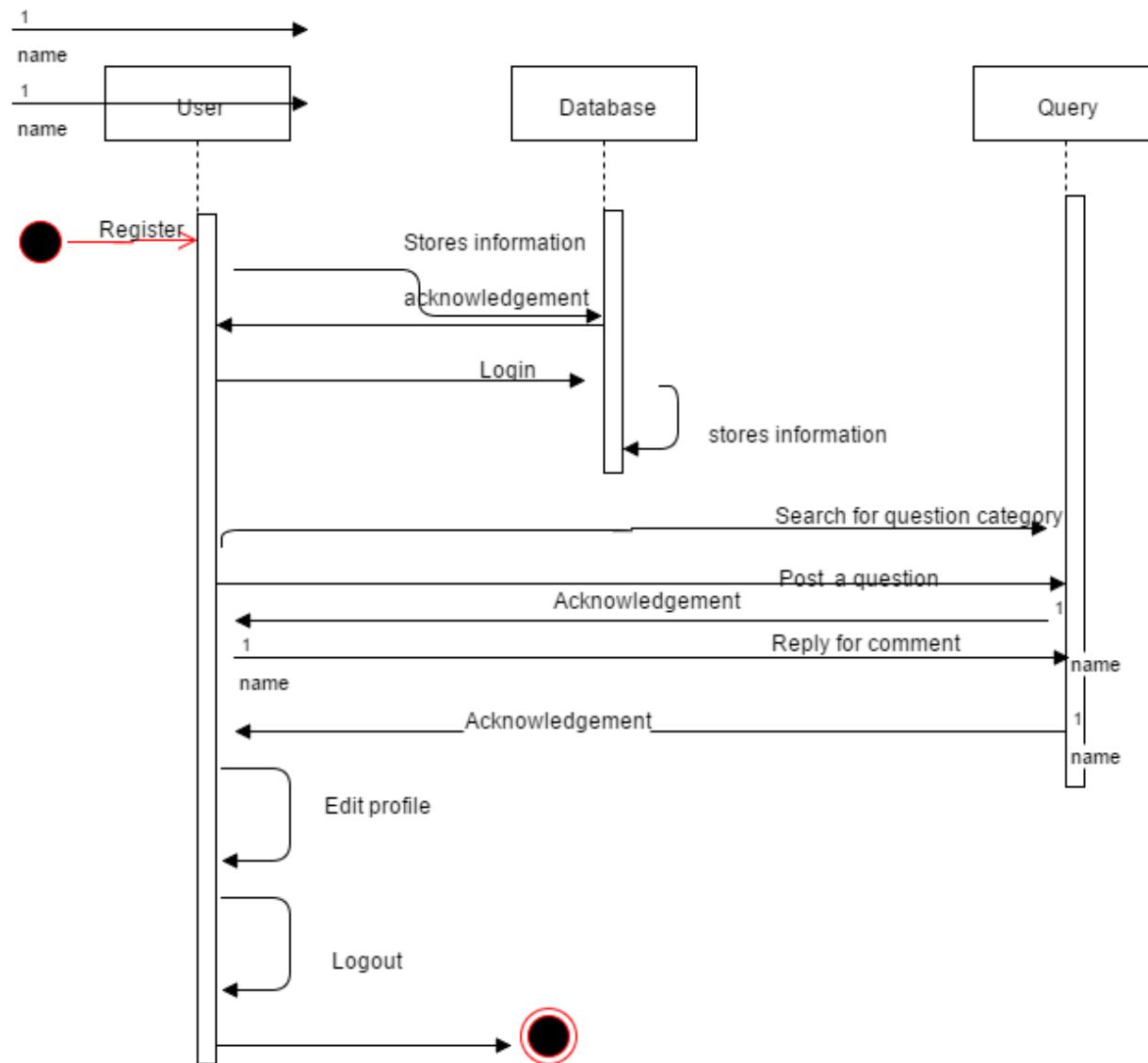
Activity Diagram:



Class Diagram:



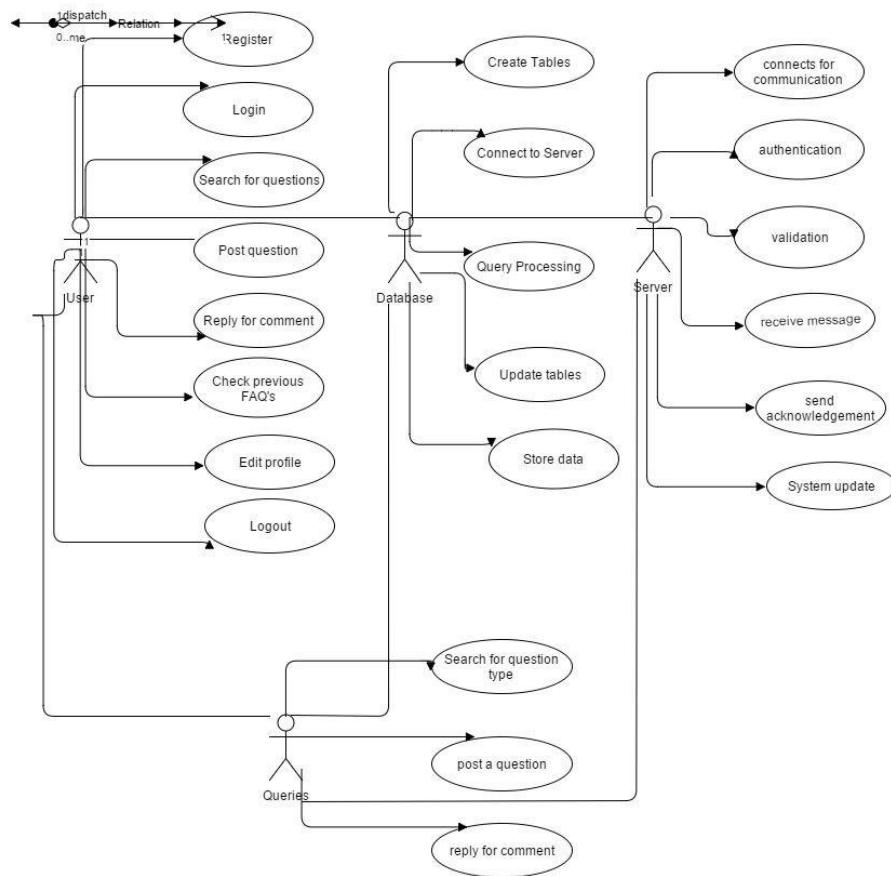
Sequence Diagram:



User Stories:

- As a user, I must login in to the account to access the application.
- As a user, I must register in to the account to access the application.
- As a user, I must sign up through Google account.
- As a system, I must allow the user to register, login, sign up only if the credentials are correct.
- As a system, I must be able to access the database which shows the details of questions, answers and saves user profile.
- As a system, I must display question and answer page for posting while using ask button.
- As a system, I must analyze the question and display multiple answers for that question.

Use Case :



Testing:

1. Login/register:

S.No	Test Description	Steps to Follow	Expected Result	Actual Result
1.	User should be able to login/New-user should be able to register	User would be able to enter the E-mail and password and click login to enter to application	User should be able to login	User is logged-in.
2.	User should be able to login/New-user should be able to register	New-User should click the Sing-up button to register, to navigate to registration page	New-users are directed to register page.	New-Users are able to view the registration page.
3.	User should be able to login/New-user should be able to register	User should enter E-Mail and Password and are validated for the users.	User details are authenticated.	User is able to login only when accurate details are submitted
4.	User should be able to login/New-user should be able to register	When user enters wrong details an error would pop up.	User credential are to be validated and if wrong a pop-up would be display	User would be able to view a message if incorrect details are entered.

2. Home Screen:

S.No	Test Description	Steps to Follow	Expected Result	Actual Result
1.	Registered User should be able to ask a question or search for answers	User enters question and answer to post.	Users should be able to enter question and answer for posting	Users should be able to enter question and answer for posting.
2.	Registered User should be able to ask a question or search for answers	Users can select categories based on the doubt.	Users can view the categories	Users are able to view categories.
3.	Registered User should be able to ask a question or search for answers	User can navigate to the respective category page and check for question or post.	Users can view multiple answers for a question.	Users can view multiple answers for a question.

Implementation:

Server side Implementation:-

We implemented the whole application in android studio.

The source code is written in java and used bootstrap to implement GUI of our application. The database is maintained by Mongo DB.

Mobile client Implementation:-

Mobile client application enable users to access the applications on their smart phones unlike web applications which need PC to access the application.

We are implementing our project in mobile client using android studio.

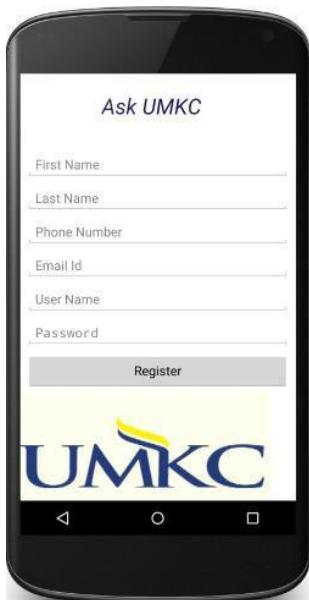
Deployment:

Login Screen:



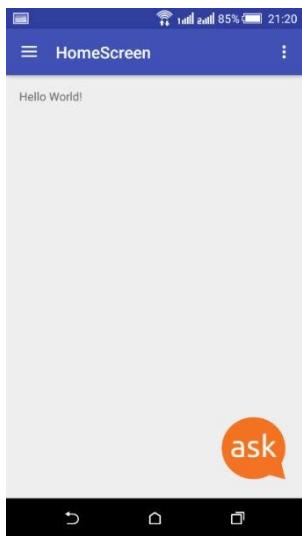
User can login using Google account or with the credentials of registered app account. New users can register for the app using register button.

Register:



In order to register, user should fill a form containing basic information like First Name, Last Name, Phone Number, Email Id, User Name, and Password. All the fields are mandatory to become a registered user. After successful registration, user will be redirected to login page and user have to login in order to view home page.

Home Page:



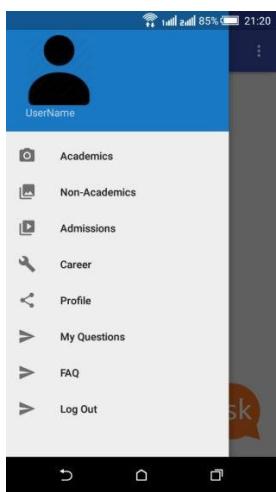
User can ask a question by touching 'Ask' button on home page.

Ask question:



After touching 'Ask' button in home page, user will be redirected to ask question screen. Here user will have different views to add question, add category.

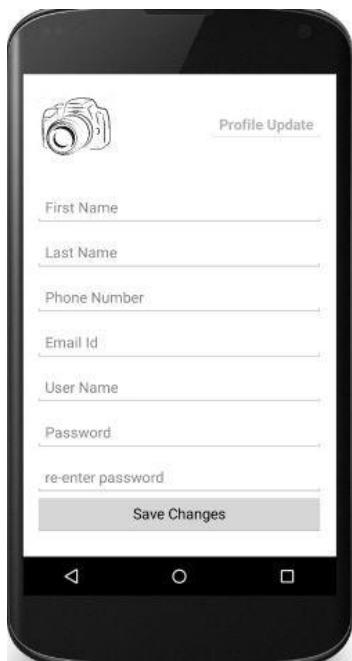
Categories:



After successful login user navigates to home page where user can view all questions in a list view. User can scroll down to several questions. Questions are presented in reverse chronological order. Home will have menu option as shown in below image. Questions are divided into several categories and presented in menu. Menu will have options to 'update profile', 'My questions', 'FAQ'. Selecting a question launches a screen where user can see

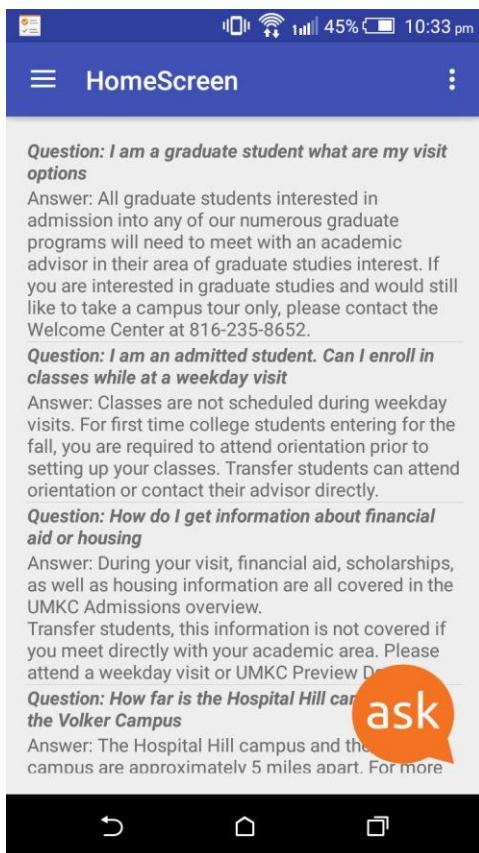
question and answers given to them. User can add an answer here in same page. Here user will have option to up vote an answer.

Profile Update:



User can update various details of his profile like photo, password etc as shown in below screens.

FAQ:



When user checks for FAQ in category, it navigates to the above screen with frequently asked questions.

System requirements:

Operating System: Windows /Linux/Mac OS X

RAM: 2 GB RAM (takes lot of time to run, so 4 GB recommended) Hard Disk:

400 MB hard disk

Data Base: Mongo DB (can alter depending upon future enhancements)

Servers: Amazon Server (can alter depending upon availability of free online sources) Software's: Java

Development kit (JDK) and Android SDK

Screen resolution: 1280px * 800px minimum

Additional: 1 GB space is required for android SDK, images and cache data

Project Management:

project timeline: 03-11-2016

members:

- Sravan Kumar Appana
- Vikesh Padarthi
- Architha Mukka
- Manikanta Maddula

Issue1: Navigation between screens: Whenever user tries to go to a different screen/page new memory gets adding due to serial onclick() events. Though this is not an issue functionality wise, it's not good for performance of app across several devices. Sravan worked on this issue for 35 hours. Manikanta and Vikesh helped in debugging this issue.

Issue2: Home screen needs to accommodate a list view to user where, questions are present in a reverse chronological order. But first we need to populate data into list view. And there should be count for correct answers and wrong answers and a button to follow the post. Vikesh worked on this issue for about 32 hours. Architha helped him in activity diagram for application and tuning UI for this screen.

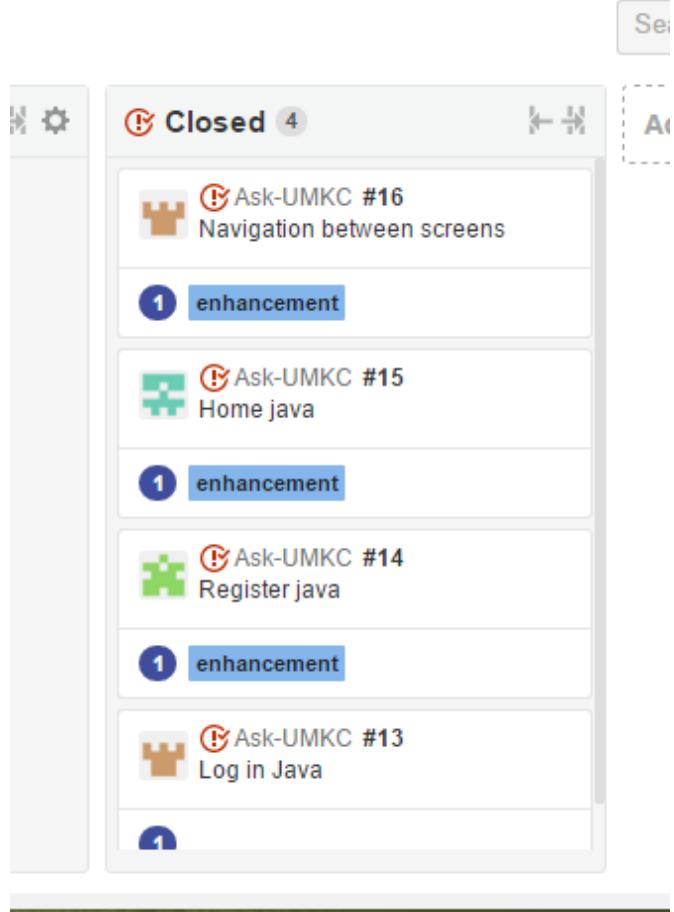
Issue3: Login is one of the basic operations that will be performed by any user. Our app allows to login by creating a profile or using gmail account. Manikanta worked on integrating gmail login, normal login, and validating a user while logging in. As this is the first screen that's going to be visible to user, several hours were kept in enhancing UI. Gmail integration still needs to be tested because it's not working properly yet. He worked for about 30 hours on this issue.

Issue 4: Register page lets user create a profile and for future login. The data entered by user should be created in DB(mongo DB). Architha worked on this critical issue for many hours and pushing data to db worked partially. She worked on this for about 35 hours on this.

All screens UI was fine tuned. Each UI took about 2 hours for fine tuning, and everyone worked on them equally.

Issues/Concerns:

1. Interaction of data between mongoDB and android is not fully implemented yet. It seems its very different between web application and android. Open documentation available is also less.
2. How to store user image in mongoDB. Blob data can be used. But still have to be tested.
3. Forgot password option for login page is not yet implemented. Have to rethink on how notifications can be given to user.
4. Categories option is still have to be implemented in questions page.



ASE-SAMV / Ask-UMKC

Issues 15

Code Issues 15 Pull requests 0 Boards Burndown Wiki Pulse Graphs Settings

Filters is.open milestone:"Increment 2" Labels Milestones New issue

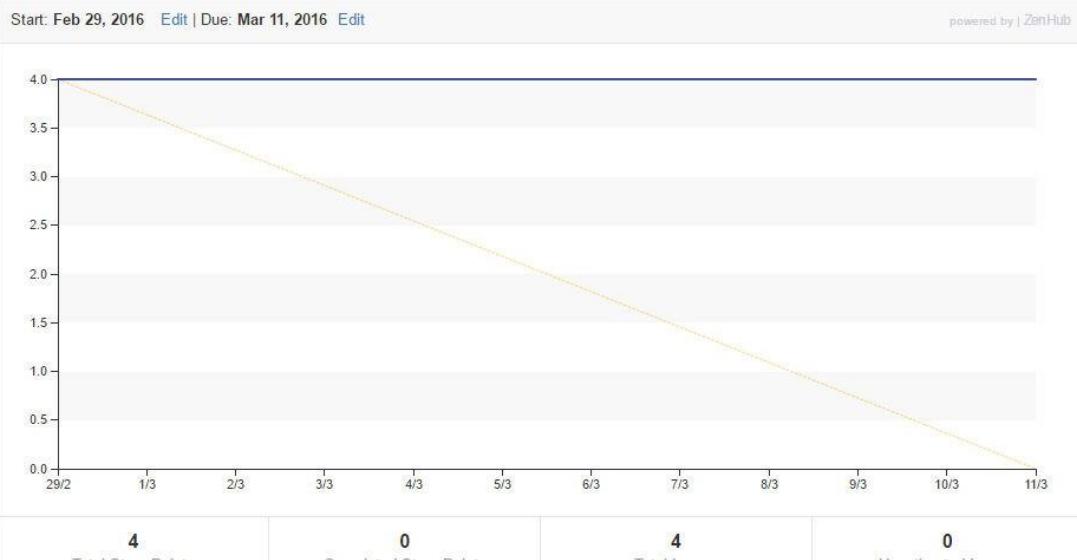
Clear current search query, filters, and sorts

① 4 Open ✓ 0 Closed	Author ▾	Labels ▾	Milestones ▾	Assignee ▾	Sort ▾
Navigation between screens enhancement ① #16 opened 8 days ago by sravanvarma Increment 2 Done					
Home java enhancement ① #15 opened 8 days ago by sravanvarma Increment 2 Done					
Register java enhancement ① #14 opened 8 days ago by sravanvarma Increment 2 Done					
Log in Java ① #13 opened 8 days ago by sravanvarma Increment 2 Done					

ProTip! no:milestone will show everything without a milestone.

Increment 2

Edit Milestone Change Milestone



Bibliography:

1) <https://www.quora.com>

2) <http://www.umkc.edu/>

ASE Project Increment3

Group# 12: Project "Ask UMKC"

Group Members:

- Sravan Kumar Appana
- Vikesh Padarthi
- Architha Mukka
- Manikanta Maddula

Introduction:

Name of the application “Ask UMKC”.

The App is about questionnaires which can be posted by any user and any registered user can answer the question. The questions need not to be in specific area like finance, course and sports etc., it can be of any topic related to university activities like events, career, etc. Student who wants to join UMKC will have many doubts like ‘last date for paying fee!’, ‘where is a particular event?’, ‘Student associations ’etc. It is easy to drop a mail to the authorities asking for details but if answer is needed on weekends and on holidays, it’s difficult. But with this application answer can be found at any time.

Objective:

An android application which help students of UMKC in clearing their doubts in all domains like fees, course, sports etc. Answers can be replied by other students or any other registered user.

Features:

Users can login to app using their Google account or they can sign up for the account. After successful login, user navigates to a page with ask button and when滑动 left in home page, app displays various

fields like 'Academic', 'Nonacademic ', 'Admissions', 'Career', 'update profile', 'My questions' and FAQ. User can select a particular field to question and answer. When a particular field is selected, questions are displayed as a list in reverse chronological order. User can scroll for different questions. Clicking on a question will display question and multiple answers for it. User has a feasibility to answer in the same page or the user can use the ask button in home page for posting a question and answer. Home page

consists of questions as a list view, when clicked on a specific question where it navigates to a page with multiple answers for that question and a button where user can post a answer. There is a vote up option to decide appropriate answers for every question in the form of like and dislike buttons. Moreover, users can follow questions using follow button if needed.

Existing Services or API:

User can sign up in to the application using their Google account. Mash up of Google sign in with the application is achieved with the following API:

<https://www.googleapis.com/auth/userinfo.profile>

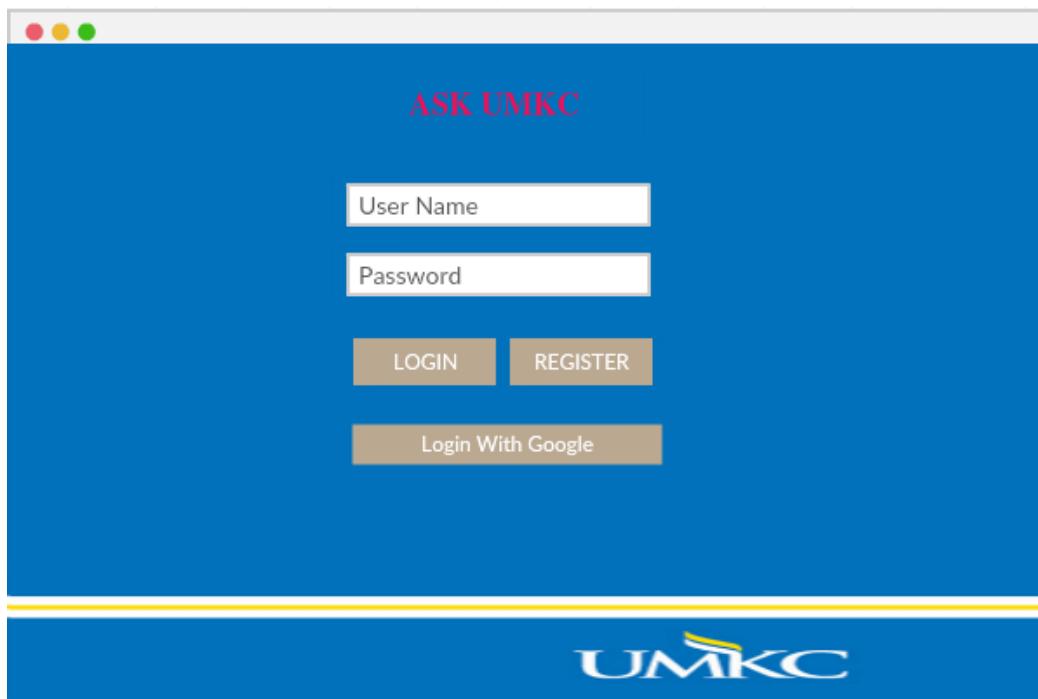
Mongo Db is a service used for retrieving and updating data. <https://mlab.com>

Design of features:

Wirefram

es:- Login

Screen:



Register:

Ask UMKC

First Name
Last Name
Phone Number
Email Id
User Name
Password

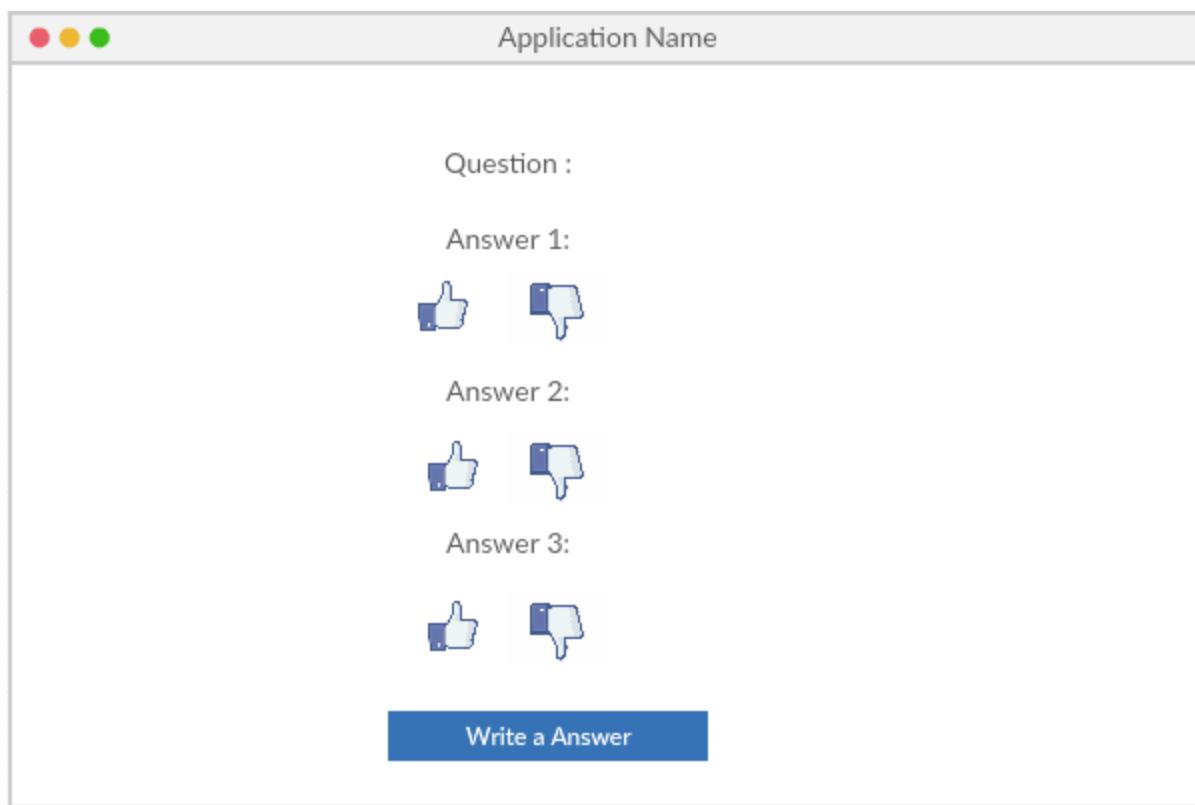
Register

Homepage:

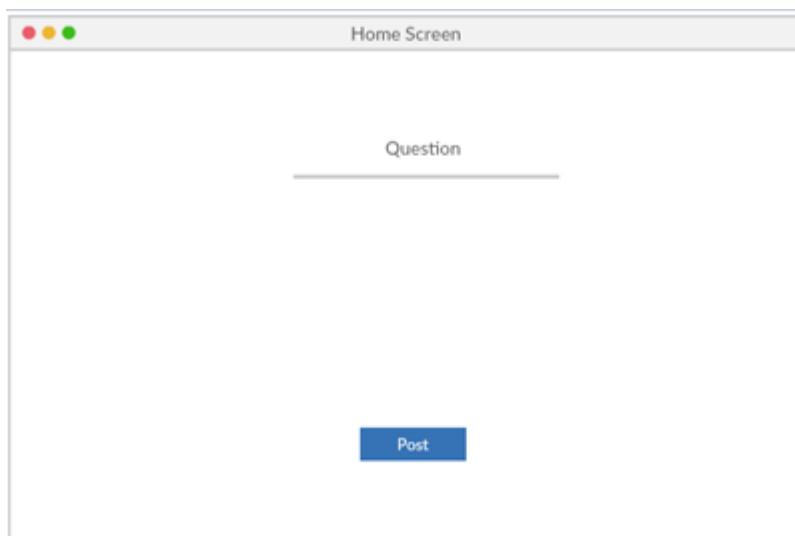
The image shows a mockup of a web application homepage. At the top, there are three colored window control buttons (red, yellow, green) and the text "Application Name". Below this, there are three sections, each consisting of a question, an answer, and a row of social media icons.

- Question 1:** Answer 1:
Like Dislike Follow
- Question 2:** Answer 2:
Like Dislike Follow
- Question 3:** Answer 3:
Like Dislike Follow

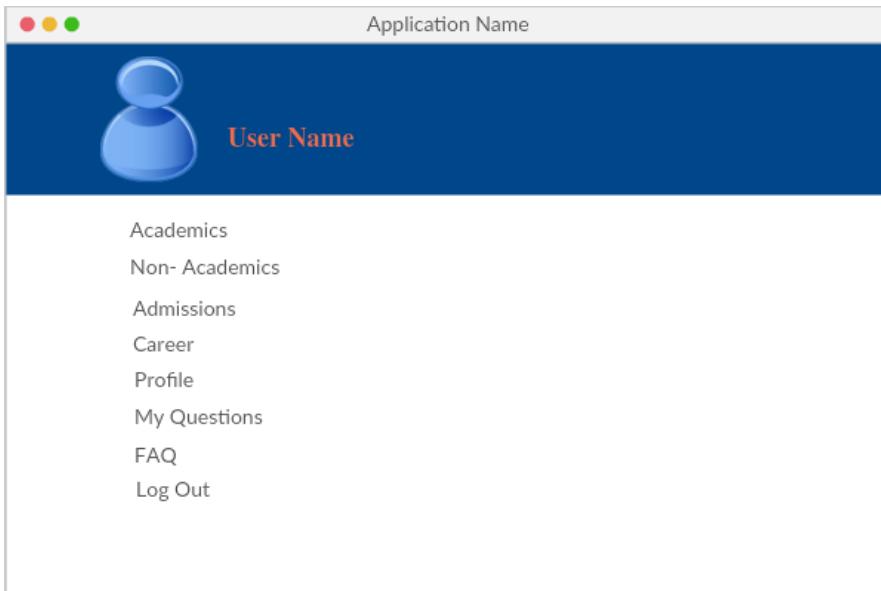
In the bottom right corner of the page area, there is a red circular button with the word "ask" written on it.



Ask question:



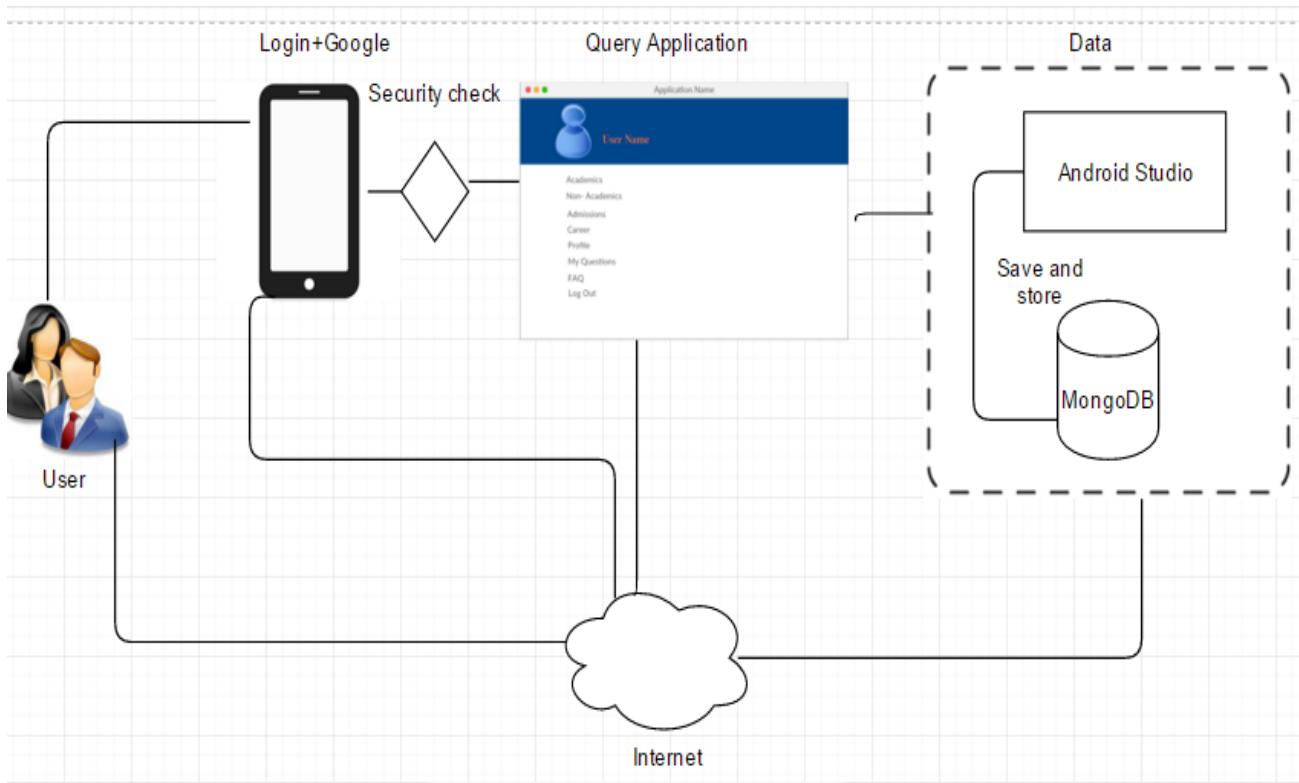
Categories:



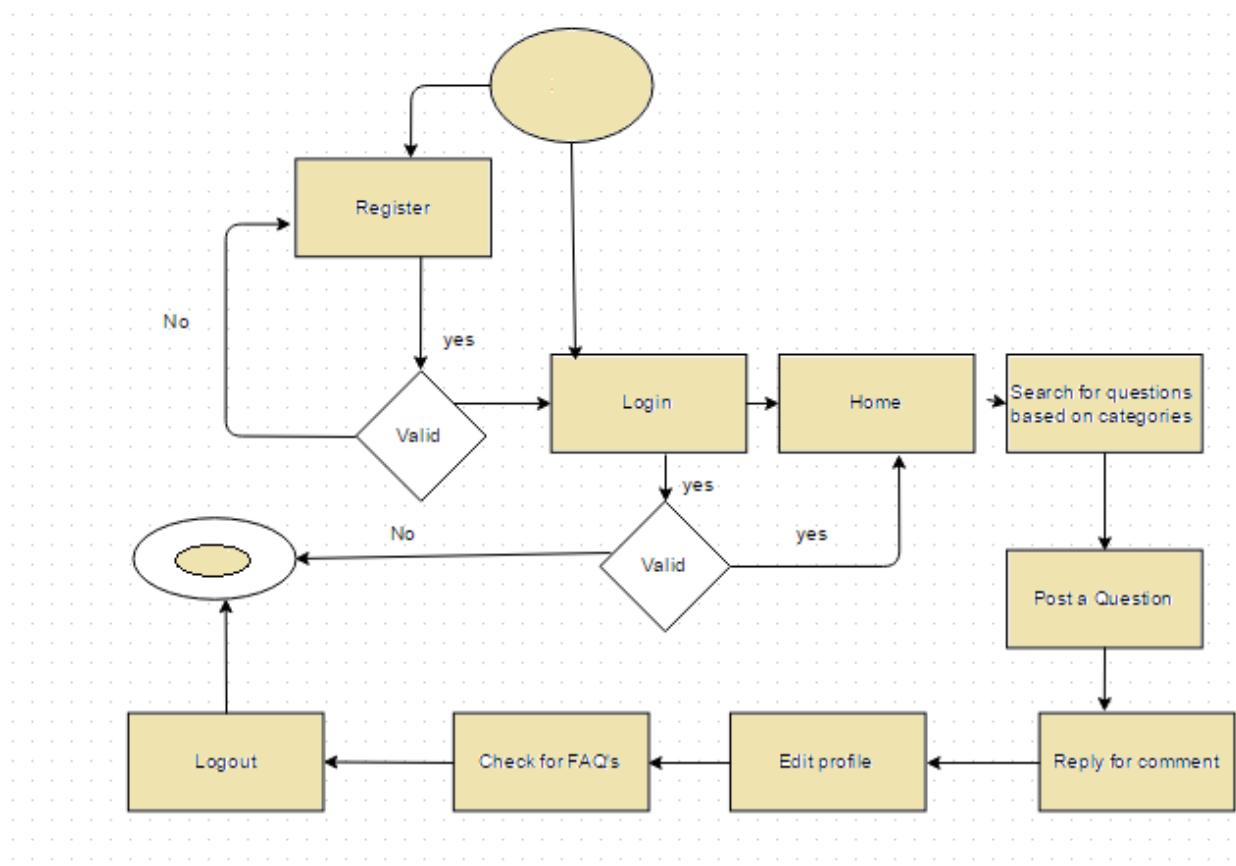
Profile update:



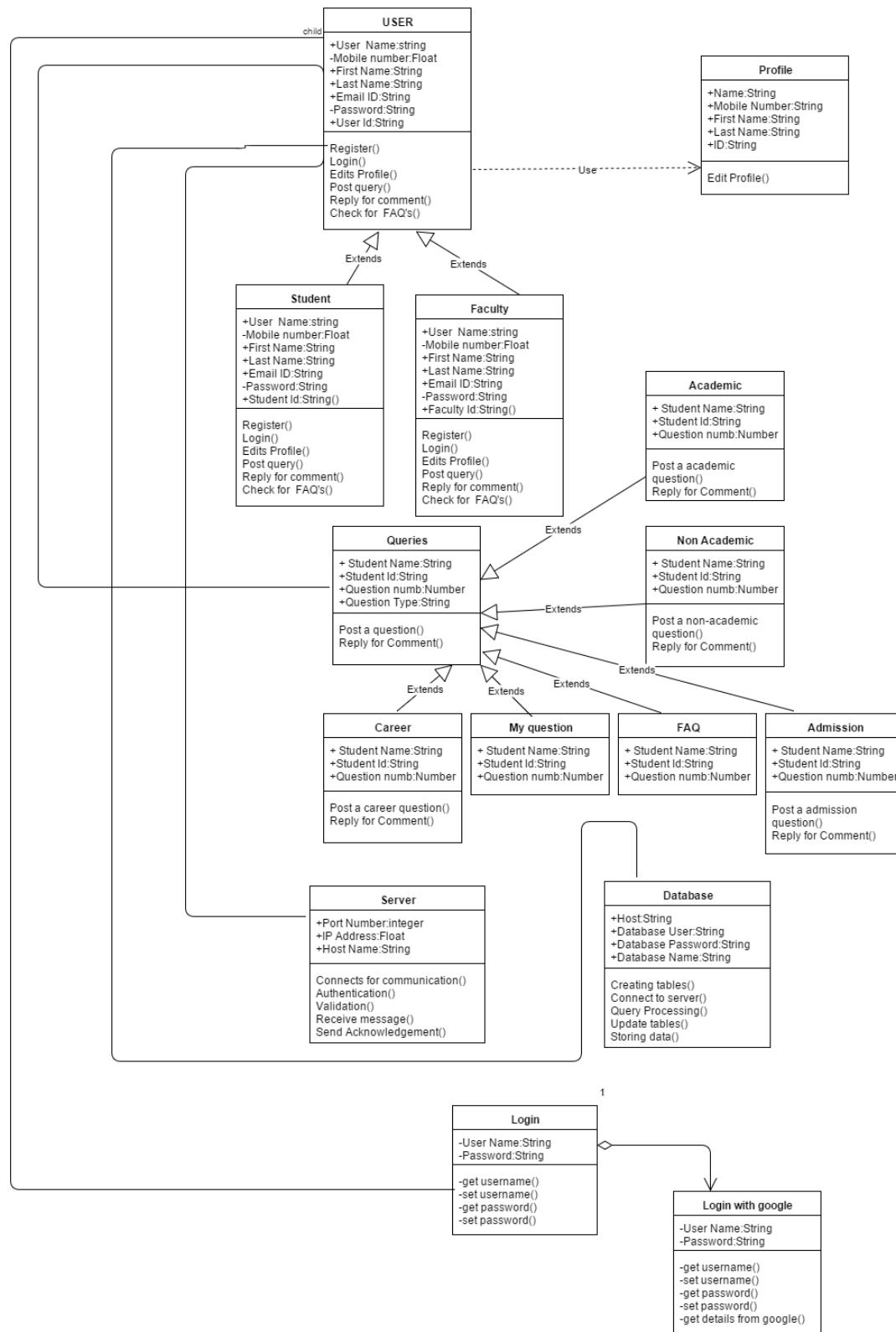
Architecture Diagram:



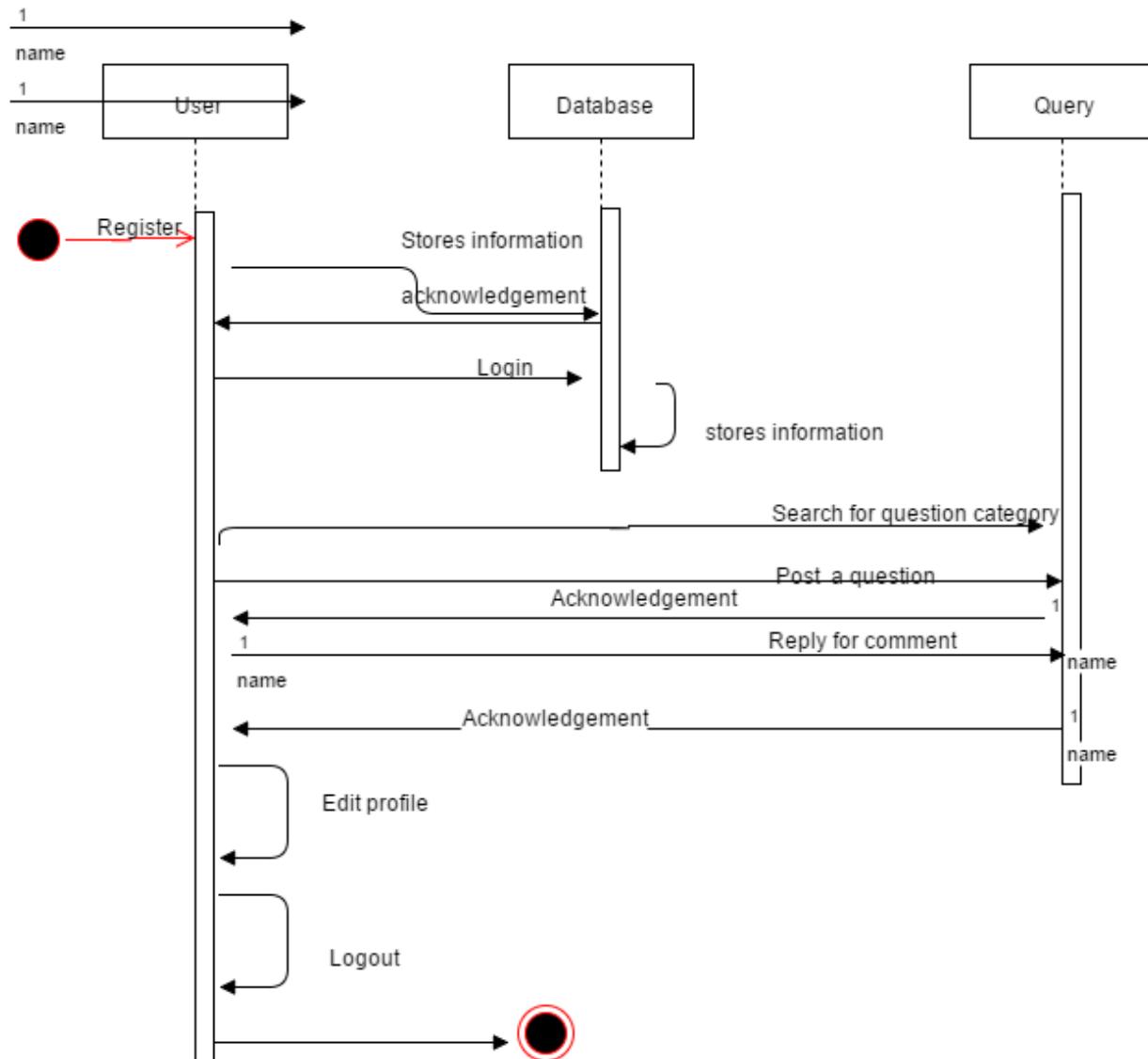
Activity Diagram:



Class Diagram:



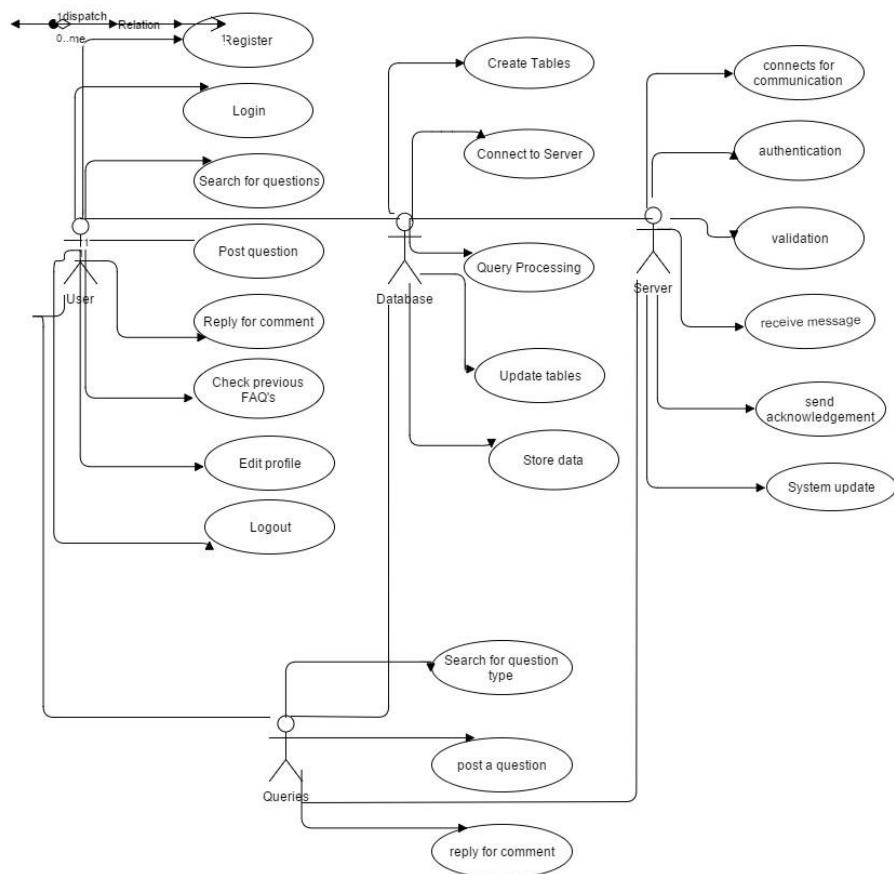
Sequence Diagram:



User Stories:

- As a user, I must login in to the account to access the application.
- As a user, I must register in to the account to access the application.
- As a user, I must sign up through Google account.
- As a user, I must post a question and answer and like or unlike a answer specified to that question.
- As a system, I must allow the user to register, login, sign up only if the credentials are correct.
- As a system, I must be able to access the database which shows the details of questions, answers and saves user profile.
- As a system, I must display question and answer in home screen page.
- As a system, I must allow to like and unlike a answer.
- As a system, I must analyze the question and display multiple answers for that question.

Use Case :



Testing:

1. Login/register:

S.No	Test Description	Steps to Follow	Expected Result	Actual Result
1.	User should be able to login/New-user should be able to register	User would be able to enter the E-mail and password and click login to enter to application	User should be able to login	User is logged-in.
2.	User should be able to login/New-user should be able to register	New-User should click the Sing-up button to register, to navigate to registration page	New-users are directed to register page.	New-Users are able to view the registration page.
3.	User should be able to login/New-user should be able to register	User should enter E-Mail and Password and are validated for the users.	User details are authenticated.	User is able to login only when accurate details are submitted
4.	User should be able to login/New-user should be able to register	When user enters wrong details an error would pop up.	User credential are to be validated and if wrong a pop-up would be display	User would be able to view a message if incorrect details are entered.

2. Home Screen:

S.No	Test Description	Steps to Follow	Expected Result	Actual Result
1.	Registered User should be able to ask a question or search for answers	User enters question and answer to post.	Users should be able to enter question and answer for posting	Users should be able to enter question and answer for posting.
2.	Registered User should be able to ask a question or search for answers	Users can select categories based on the doubt.	Users can view the categories	Users are able to view categories.
3.	Registered User should be able to ask a question or search for answers	User can navigate to the respective category page and check for question or post.	Users can view multiple answers for a question.	Users can view multiple answers for a question.

Implementation:

Server side Implementation:-

We implemented the whole application in android studio.

The source code is written in java and used bootstrap to implement GUI of our application. The database is maintained by Mongo DB.

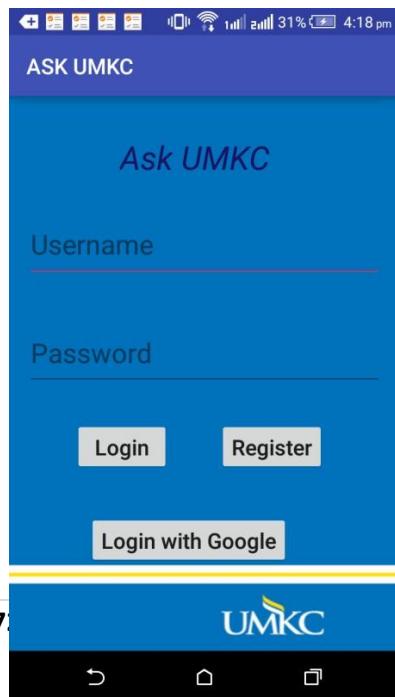
Mobile client Implementation:-

Mobile client application enable users to access the applications on their smart phones unlike web applications which need PC to access the application.

We are implementing our project in mobile client using android studio.

Deployment:

Login Screen:



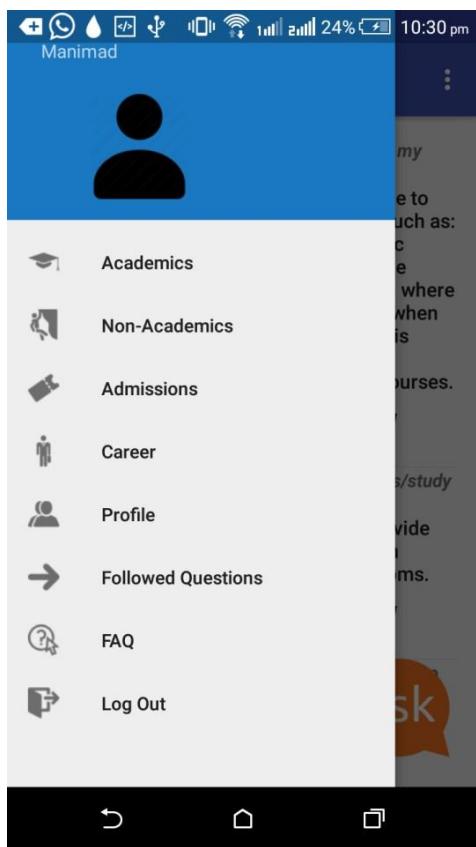
User can login using Google account or with the credentials of registered app account. New users can register for the app using register button.

Register:



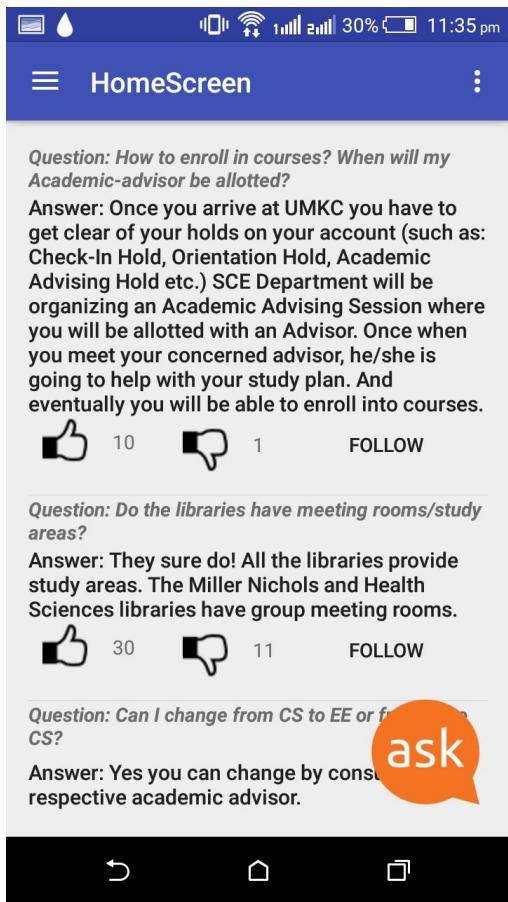
In order to register, user should fill a form containing basic information like First Name, Last Name, Phone Number, Email Id, User Name, and Password. All the fields are mandatory to become a registered user. After successful registration, user will be redirected to login page and user have to login in order to view home page.

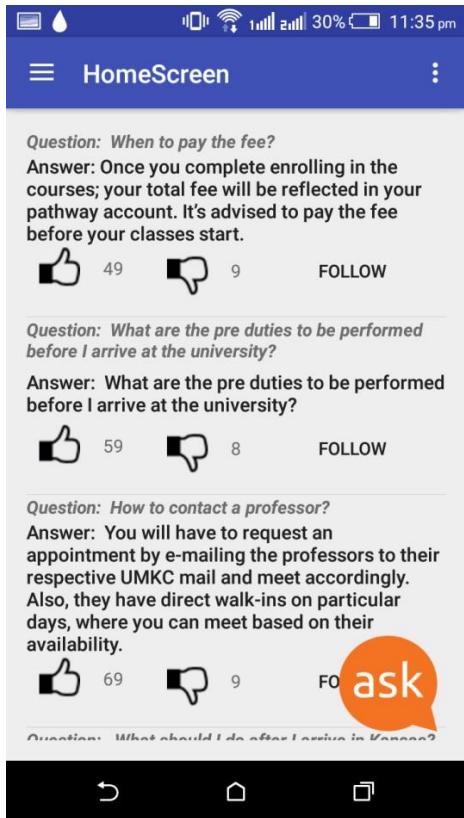
Home Page:



Categories (Menu)

After successful login user navigates to home page where user can view all questions in a list view. User can scroll down to several questions. Questions are presented in reverse chronological order. Home will have menu option as shown in below image. Questions are divided into several categories and presented in menu. Menu will have options to ‘update profile’, ‘My questions’, ‘FAQ’. Selecting a question launches a screen where user can see question and answers given to them. User can add an answer here in same page. Here user will have option to up vote an answer.





Question: Is transferability really an issue?
Answer: Yes, students are not as free to explore different academic areas due to general education requirements being so different between units. Many people are not sure exactly what area they wish to major in when they first begin their college education. By having common general education requirements, students will be able to more easily use these credits if they change their major. However, the changes to general education requirements will not have an impact on the degree of difficulty related to transferring between majors when it comes to the major requirements.

 89  0 FOLLOW

Question: What if I did not receive my I-20 Yet?
Answer: Please contact ISAO. Details: Phone: +1 816-235-1113 E-mail: isao@umkc.edu

 6  0 FOLLOW

Question: What is conditional admit?
Answer: So as to clear the "ALI" hold in your account and enroll in the courses. you will need



◀ ⌂ ▶

Question: *On campus jobs?*
Answer: UMKC provides many On-Campus jobs.
Also, follow the below Link <http://career.umkc.edu/>

Question: *Are there any on-campus placements after completing graduation?*
Answer: There will be career fairs and many other events conducted where interested students can give their resume and contact employer's in getting jobs.

Question: *When can I do an internship (international student)?*
Answer: International students should complete at least 2 regular semesters before they can do internship or CPT. Typically it's about a year in USA. It's same for most of the universities.

Like 83 Dislike 48 FOLLOW

Like 73 Dislike 38 FOLLOW

Like 45 Dislike 58 FOLLOW

ask

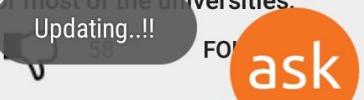
Question: *On campus jobs?*
Answer: UMKC provides many On-Campus jobs.
Also, follow the below Link <http://career.umkc.edu/>

 83  48 FOLLOW

Question: *Are there any on-campus placements after completing graduation?*
Answer: There will be carrier fairs and many other events conducted where interested students can give their resume and contact employer's in getting jobs.

 73  38 FOLLOW

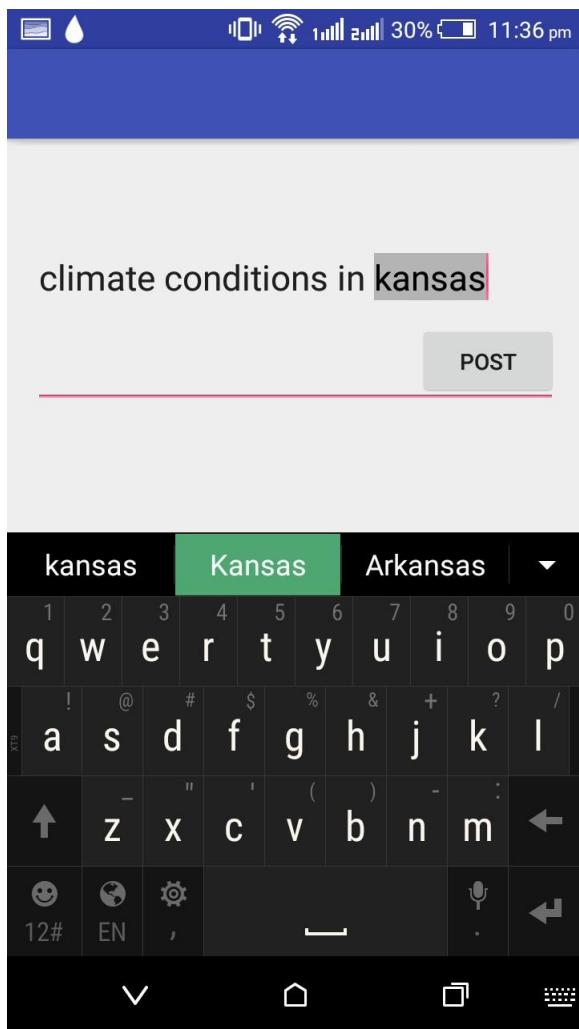
Question: *When can I do an internship (international student)?*
Answer: International students should complete at least 2 regular semesters before they can do internship or CPT. Typically it's about a year in USA. It's same for most of the universities.

 45  Updating...!! 58 FOLLOW



Question: *Will my OPT period be effected if I go to another country?*



30% 11:39 pm

☰ HomeScreen ⋮

Question: How to enroll in courses? When will my Academic-advisor be allotted?

Answer: Once you arrive at UMKC you have to get clear of your holds on your account (such as: Check-In Hold, Orientation Hold, Academic Advising Hold etc.) SCE Department will be organizing an Academic Advising Session where you will be allotted with an Advisor. Once when you meet your concerned advisor, he/she is going to help with your study plan. And eventually you will be able to enroll into courses.

 11  1 FOLLOW

Question: Do the libraries have meeting rooms/study areas?

Answer: They sure do! All the libraries provide study areas. The Miller Nichols and Health Sciences libraries have group meeting rooms.

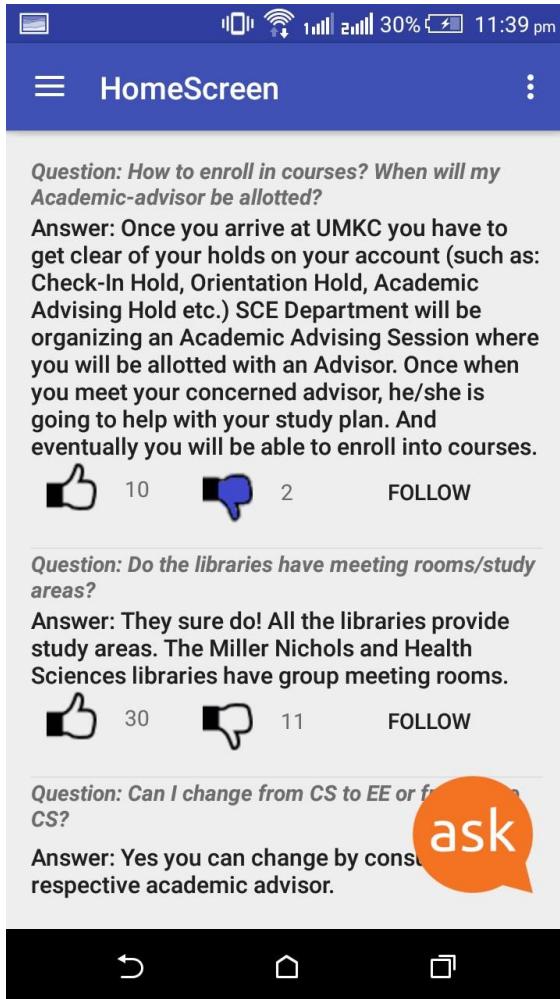
 30  11 FOLLOW

Question: Can I change from CS to EE or from EE to CS?

Answer: Yes you can change by consulting your respective academic advisor.

ask



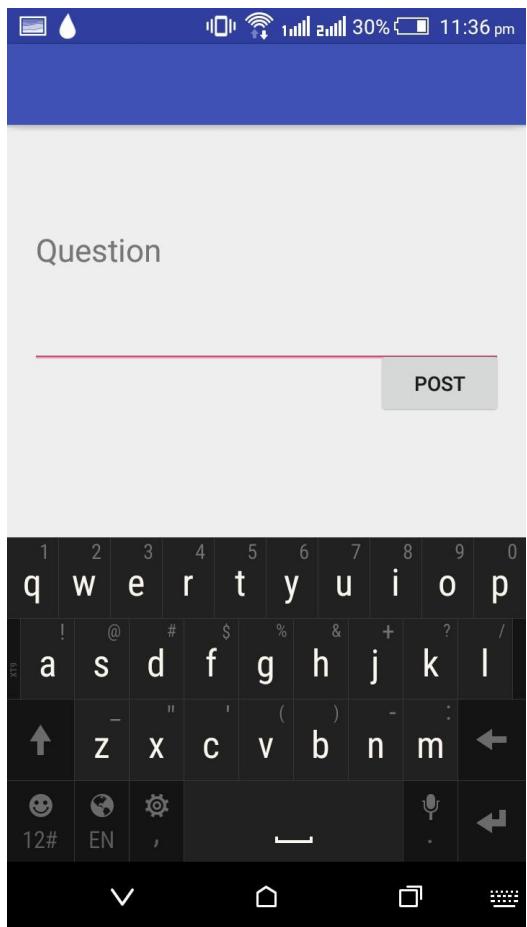


Home page consists of questions as a list view, when clicked on a specific question where it navigates to a page with multiple answers for that question and a button where user can post a answer. There is a vote up option to decide appropriate answers for every question in the form of like and dislike buttons. Moreover, users can follow questions using follow button if needed.

Ask question:

User can ask a question by touching 'Ask' button on home page.

After touching 'Ask' button in home page, user will be redirected to ask question screen. Here user will have different views to add question, add category.



Profile Update:



User can update various details of his profile like photo, password etc as shown in below screens.

FAQ:

When user checks for FAQ in category, it navigates to the above screen with frequently asked questions.

The screenshot shows a mobile application interface titled "HomeScreen". At the top, there is a blue header bar with icons for signal strength, battery level (30%), and time (11:39 pm). Below the header, the main content area displays three frequently asked questions:

- Question:** How to enroll in courses? When will my Academic-advisor be allotted?
Answer: Once you arrive at UMKC you have to get clear of your holds on your account (such as: Check-In Hold, Orientation Hold, Academic Advising Hold etc.) SCE Department will be organizing an Academic Advising Session where you will be allotted with an Advisor. Once when you meet your concerned advisor, he/she is going to help with your study plan. And eventually you will be able to enroll into courses.
11 likes, 1 dislike, FOLLOW
- Question:** Do the libraries have meeting rooms/study areas?
Answer: They sure do! All the libraries provide study areas. The Miller Nichols and Health Sciences libraries have group meeting rooms.
30 likes, 11 dislikes, FOLLOW
- Question:** Can I change from CS to EE or f...
Answer: Yes you can change by consulting your respective academic advisor.
An orange speech bubble icon with the word "ask" is visible next to the answer text.

At the bottom of the screen, there is a black navigation bar with three white icons: a circular arrow, a house, and a square.

System requirements:

Operating System: Windows /Linux/Mac OS X

RAM: 2 GB RAM (takes lot of time to run, so 4 GB recommended) Hard

Disk: 400 MB hard disk

Data Base: Mongo DB (can alter depending upon future enhancements)

Servers: Amazon Server (can alter depending upon availability of free online sources)

Software's: Java Development kit (JDK) and Android SDK Screen

resolution: 1280px * 800px minimum

Additional: 1 GB space is required for android SDK, images and cache data

Project Management:

project timeline: 03-11-

2016 members:

- Sravan Kumar Appana
- Vikesh Padarthi
- Architha Mukka
- Manikanta Maddula

Issue1: Worked on parsing Mongo DB data in to list views in the home screens and also worked on up vote and down vote counter changes in the home screen. Worked on UI issues in the home screen. Working on pushing data to Mongo DB, worked on camera option and image updating in profile update page and converting the image data to bit map data. Moreover, worked on menu options and fixing bugs. He worked for about 60 hours on this issue.

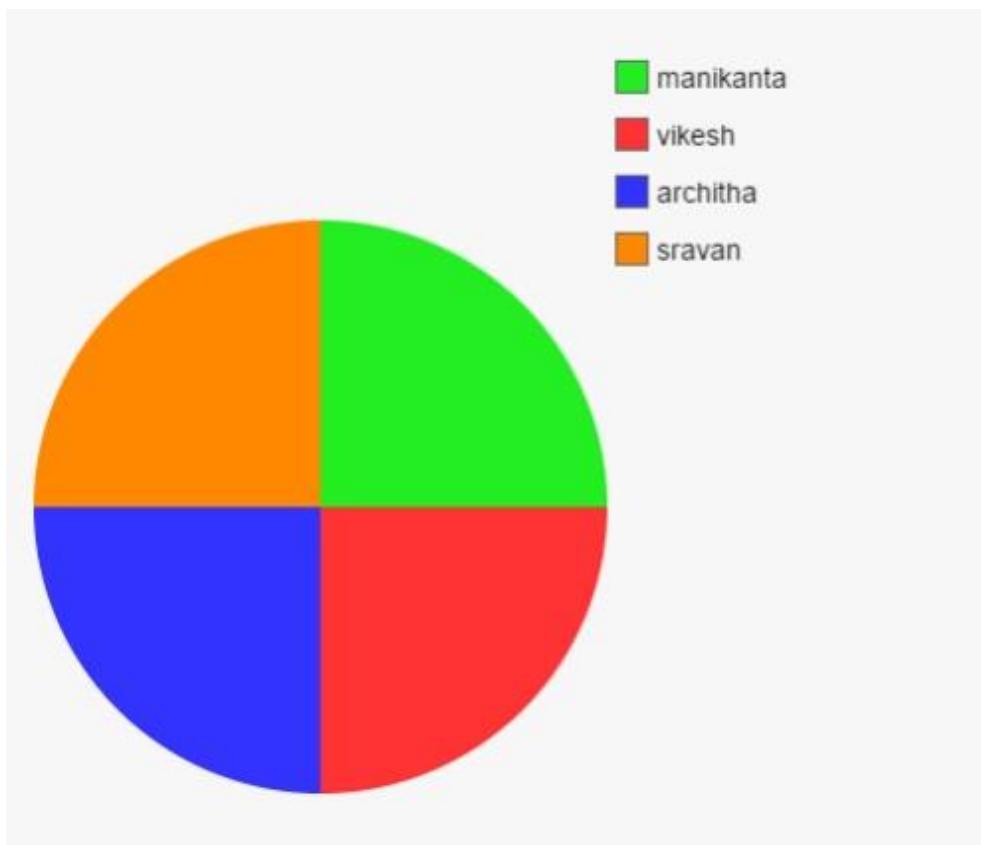
Issue2: Worked on answer list view screen which contains a question and multiple answers for it in a list view with up vote and down vote button and a button for posting a answer and working on updating data to Mongo DB. Collected images for up vote and down vote button. Wireframes for answer list view screen. She worked for about 30 hours on this issue.

Issue3: Login is one of the basic operations that will be performed by any user. Our app allows to login by creating a profile or using Gmail account. Manikanta worked on integrating Gmail login, normal login, and validating a user while logging in. Created sample Mongo DB document for question collection, collected few questions in list view and answer screen. Worked on answer button bug in answer list screen button overlapping up vote and down vote button. He worked for about 25 hours on this issue.

Issue 4: The data entered by user should be created in DB(mongo DB). Vikesh worked on this critical issue for many hours and pushing data to db worked. This critical issue is solved after trying several methods. Async task is used to avoid slow working of application due to heavy queries. He worked on this for about 35 hours on this.

Issues/Concerns:

1. Delete/Update operations on documents present in Mongo lab.
2. Assigning followed questions of a user needs to be tested for other use cases, need to see for a work around for all scenarios.
3. Need to work on auto incrementing question ids globally for adding new questions to Mongo DB.
4. Still need to present the questions in reverse chronological order from Mongo DB.
5. Data of users related to particular questions and answers may need to be presented on screens.



Bibliography:

- 1) <https://www.quora.com>
- 2) <http://www.umkc.edu/>

ASE Project Increment4

Group# 12: Project "Ask UMKC"

Group Members:

- Sravan Kumar Appana
- Vikesh Padarthi
- Architha Mukka
- Manikanta Maddula

Introduction:

Name of the application “Ask UMKC”.

The App is about questionnaires which can be posted by any user and any registered user can answer the question. The questions need not to be in specific area like finance, course and sports etc., it can be of any topic related to university activities like events, career, etc. Student who wants to join UMKC will have many doubts like ‘last date for paying fee!’, ‘where is a particular event?’, ‘Student associations ’etc. It is easy to drop a mail to the authorities asking for details but if answer is needed on weekends and on holidays, it’s difficult. But with this application answer can be found at any time.

Objective:

An android application which help students of UMKC in clearing their doubts in all domains like fees, course, sports etc. Answers can be replied by other students or any other registered user.

Features:

Users can login to app using their Google account or they can sign up for the account. After successful login, user navigates to a page with ask button and when滑动 left in home page, app displays various fields like ‘Academic’, ‘Nonacademic’, ‘Admissions’, ‘Career’, ‘update profile’, ‘My questions’ and FAQ. User can select a particular field to question and answer. When a particular field is selected, questions are displayed as a list in reverse chronological order. User can scroll for different questions. Clicking on a

question will display question and multiple answers for it. User has a feasibility to answer in the same page or the user can use the ask button in home page for posting a question and answer. Home page

consists of questions as a list view, when clicked on a specific question where it navigates to a page with multiple answers for that question and a button where user can post a answer. There is a vote up option to decide appropriate answers for every question in the form of like and dislike buttons. Moreover, users can follow questions using follow button if needed.

Existing Services or API:

User can sign up in to the application using their Google account. Mash up of Google sign in with the application is achieved with the following API:

<https://www.googleapis.com/auth/userinfo.profile>

Mongo Db is a service used for retrieving and updating data. <https://mlab.com>

Design of features:

Wirefram

es:- Login

Screen:



Register:

Ask UMKC

First Name
Last Name
Phone Number
Email Id
User Name
Password

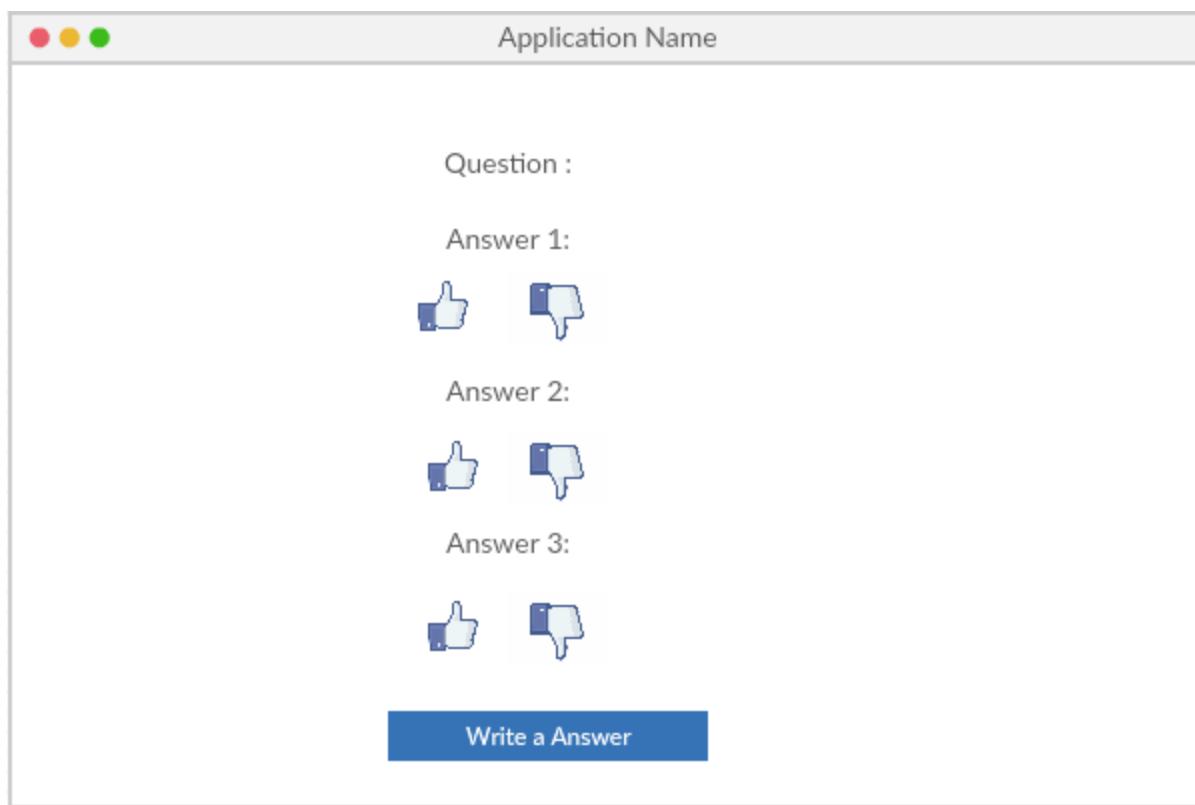
Register

Homepage:

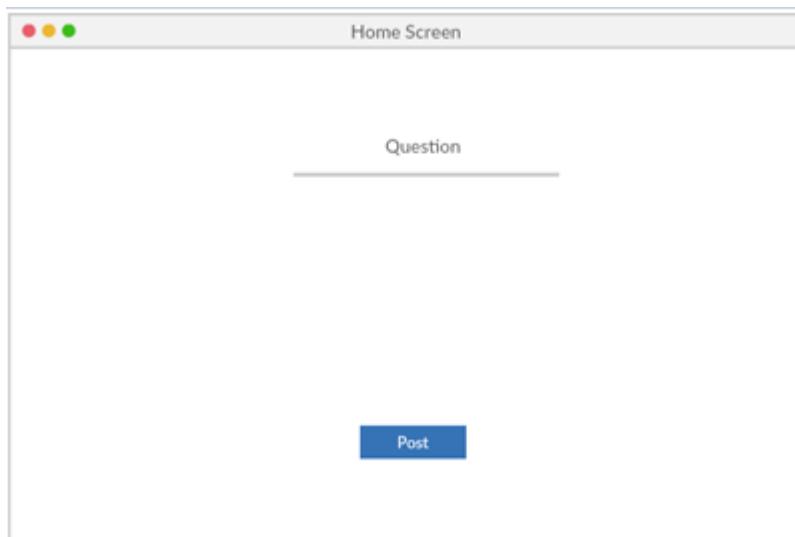
The image shows a mockup of a web application homepage. At the top, there are three colored window control buttons (red, yellow, green) and the text "Application Name". Below this is a white content area. In the center, there are three sections, each consisting of a question, an answer, and two blue thumbs-up and thumbs-down icons. To the right of each section is a "Follow" button. At the bottom right of the content area is a large red button with the word "ask" in white.

Question 1: Answer 1: Follow
Question 2: Answer 2: Follow
Question 3: Answer 3: Follow

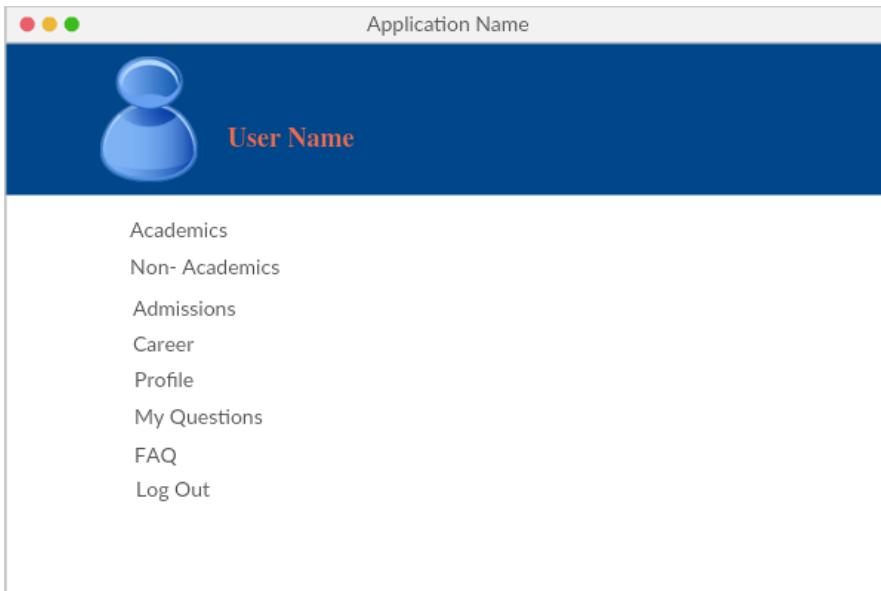
ask



Ask question:



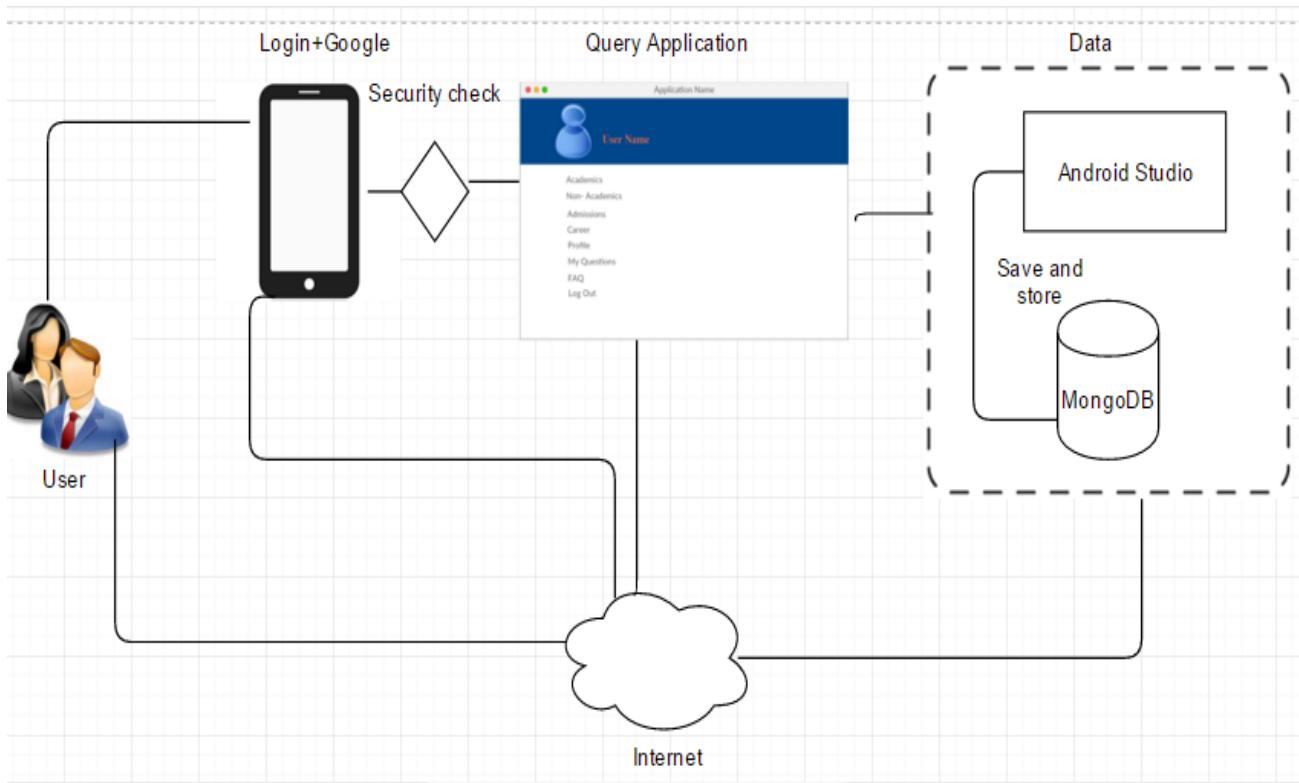
Categories:



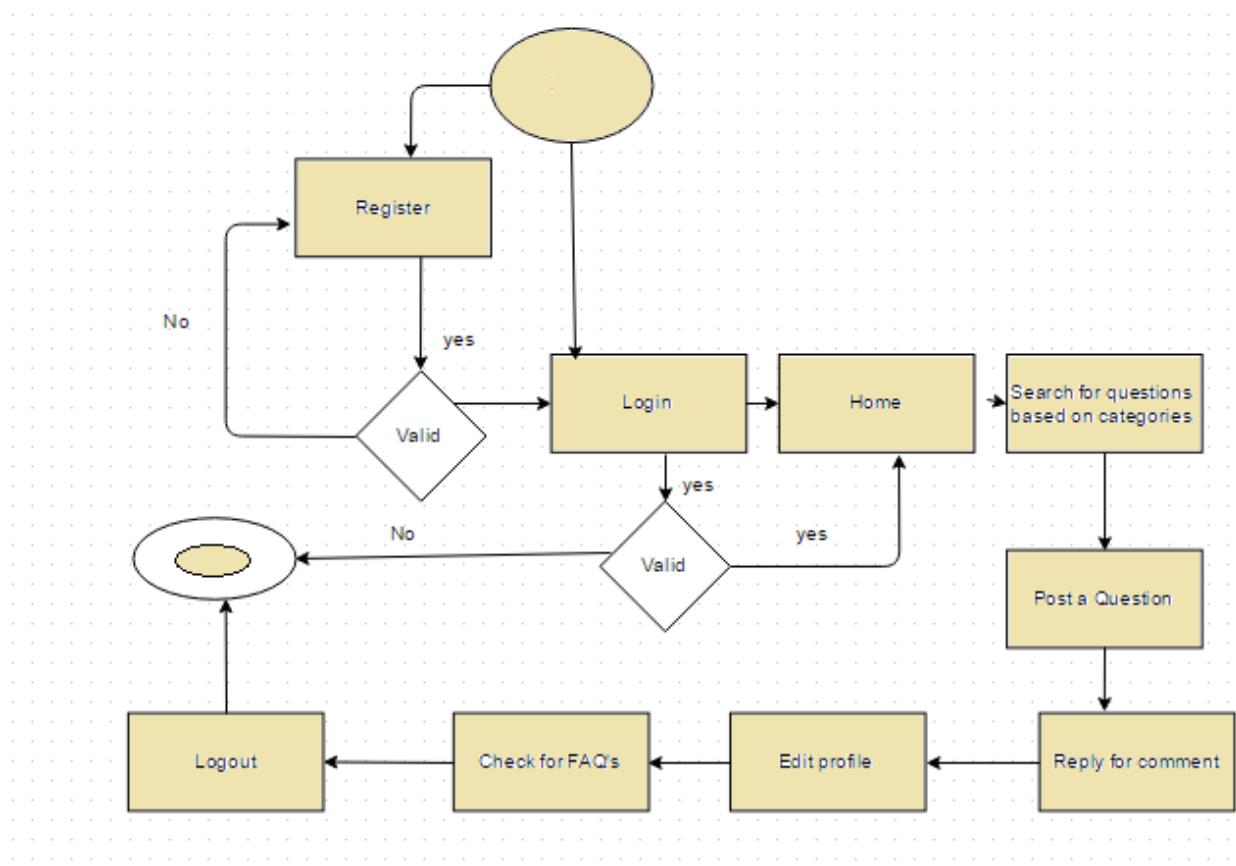
Profile update:



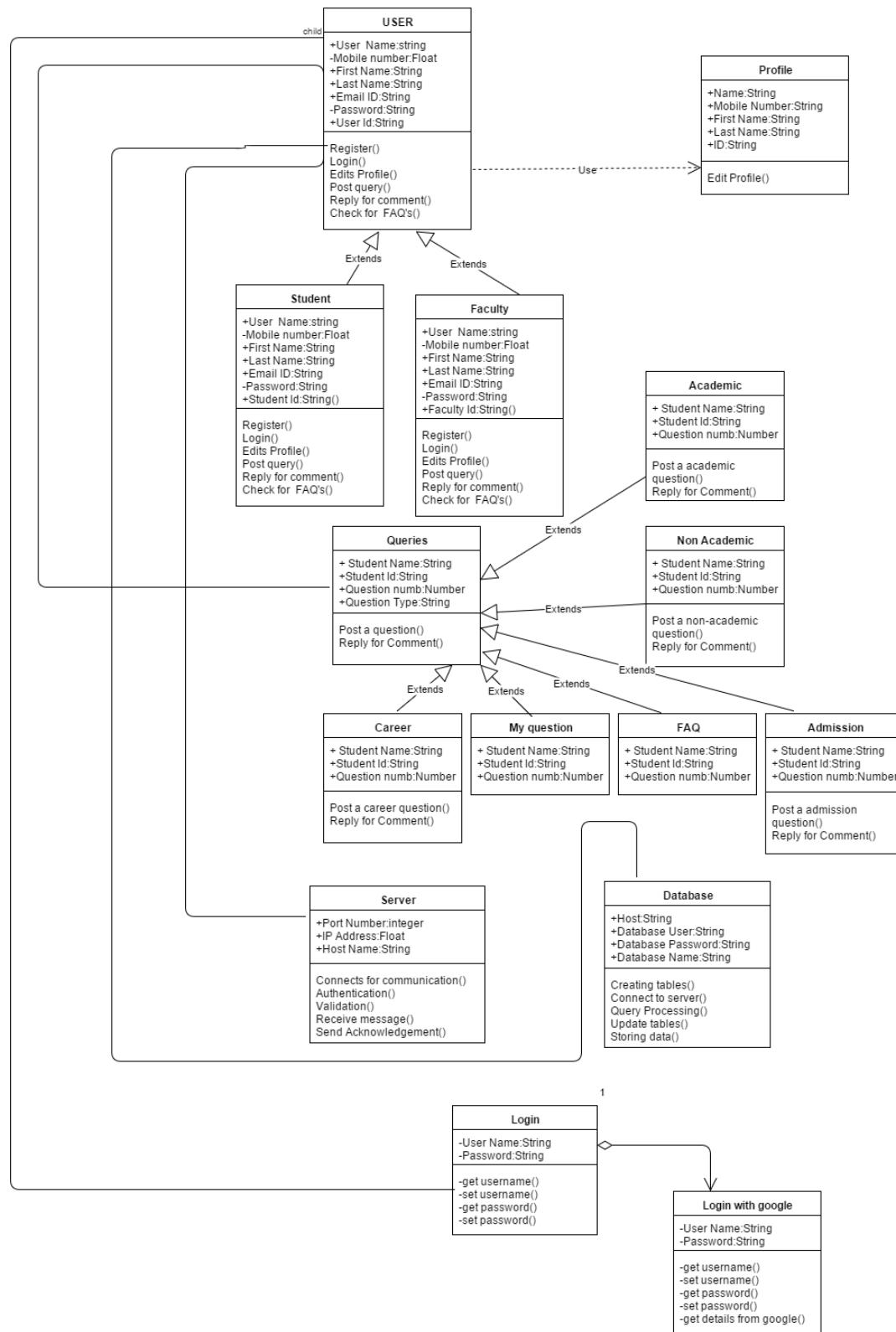
Architecture Diagram:



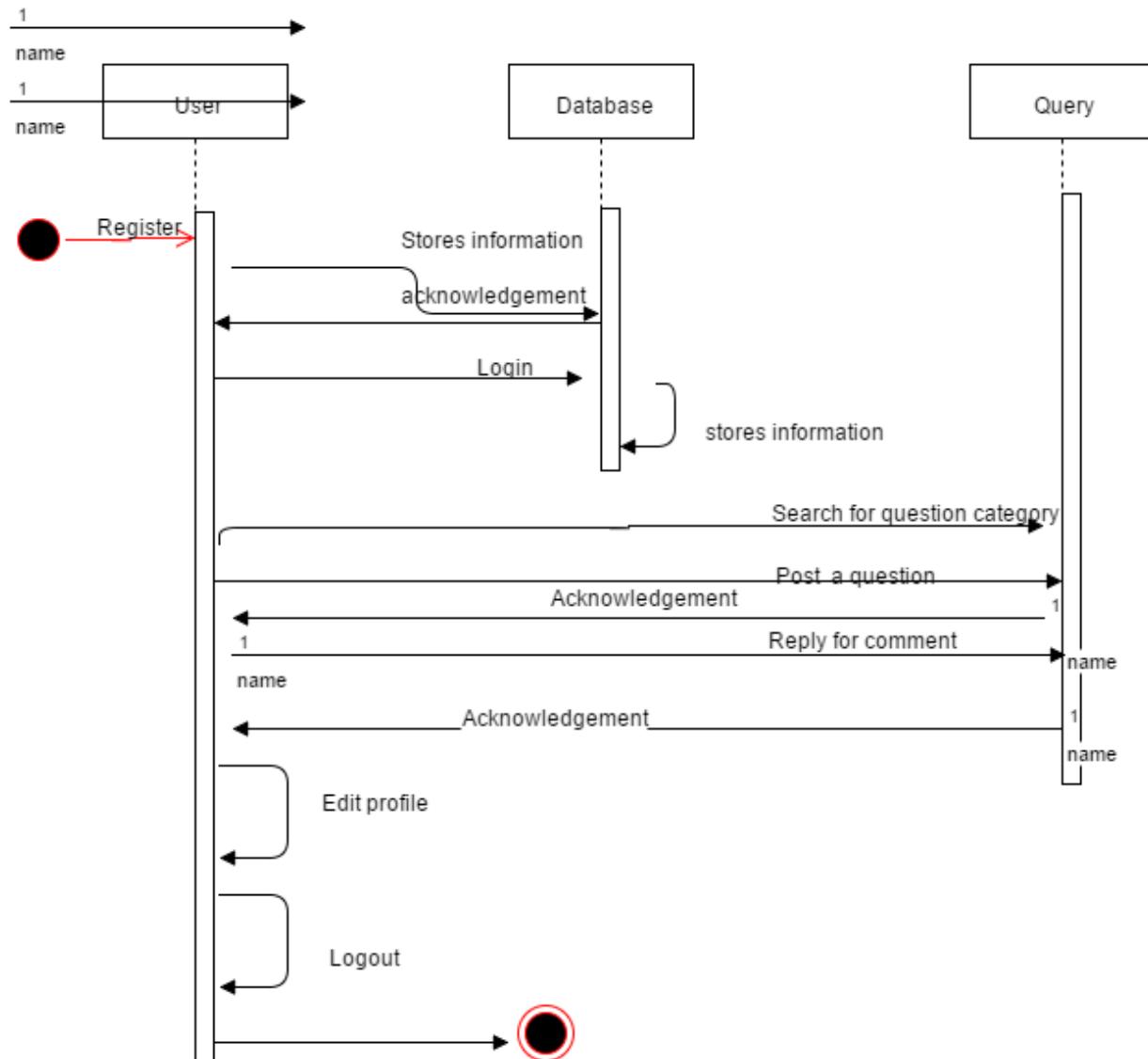
Activity Diagram:



Class Diagram:



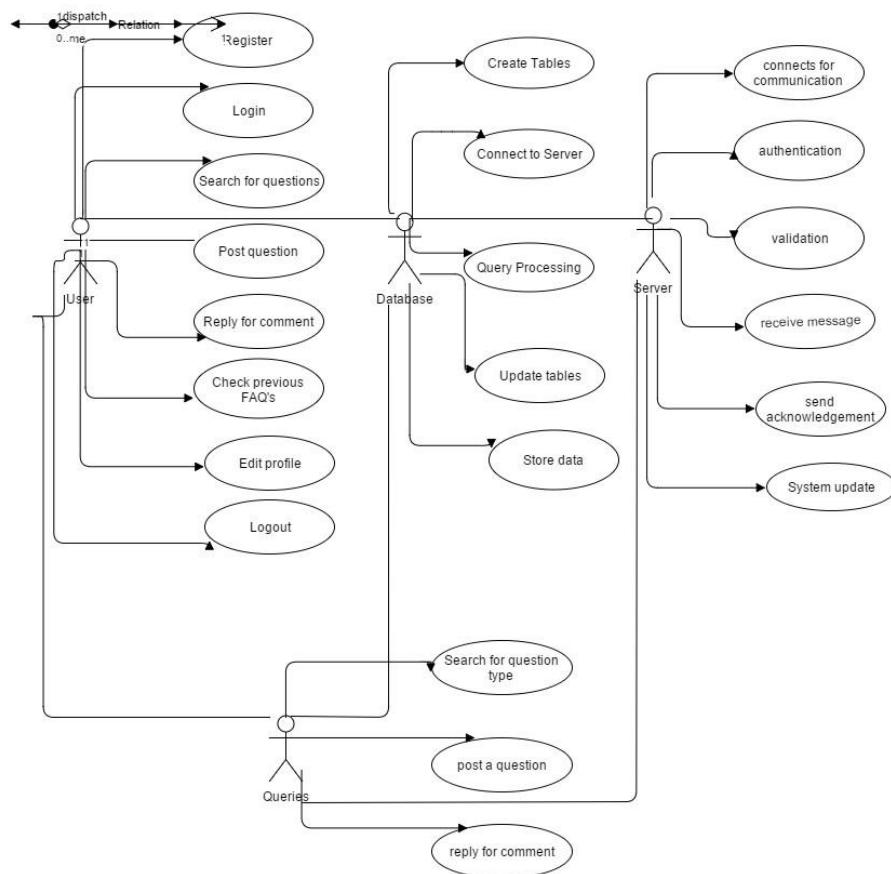
Sequence Diagram:



User Stories:

- As a user, I must login in to the account to access the application.
- As a user, I must register in to the account to access the application.
- As a user, I must sign up through Google account.
- As a user, I must post a question and answer and like, unlike and follow a answer specified to that question.
- As a user, I can select categories in the menu.
- As a user, I can search for questions required.
- As a user, I can update my profile.
- As a system, I must allow the user to register, login, sign up only if the credentials are correct.
- As a system, I must be able to access the database which shows the details of questions, answers and saves user profile.
- As a system, I must display question and answer in home screen page.
- As a system, I must allow to like, unlike and follow a answer.
- As a system, I must analyze the question and display multiple answers for that question.
- As a system, I must allow to select categories in the menu.
- As a system, I must allow the user to select categories in the menu.
- As a system, I must display search results.
- As a system, I must convert speech to text.

Use Case :



Testing:

1. Login/register:

S.No	Test Description	Steps to Follow	Expected Result	Actual Result
1.	User should be able to login/New-user should be able to register	User would be able to enter the E-mail and password and click login to enter to application	User should be able to login	User is logged-in.
2.	User should be able to login/New-user should be able to register	New-User should click the Sing-up button to register, to navigate to registration page	New-users are directed to register page.	New-Users are able to view the registration page.
3.	User should be able to login/New-user should be able to register	User should enter E-Mail and Password and are validated for the users.	User details are authenticated.	User is able to login only when accurate details are submitted
4.	User should be able to login/New-user should be able to register	When user enters wrong details an error would pop up.	User credential are to be validated and if wrong a pop-up would be display	User would be able to view a message if incorrect details are entered.

2. Home Screen:

S.No	Test Description	Steps to Follow	Expected Result	Actual Result
1.	Registered User should be able to ask a question or search for answers	User enters question and answer to post.	Users should be able to enter question and answer for posting	Users should be able to enter question and answer for posting.
2.	Registered User should be able to ask a question or search for answers	Users can select categories based on the doubt.	Users can view the categories	Users are able to view categories.
3.	Registered User should be able to ask a question or search for answers	User can navigate to the respective category page and check for question or post.	Users can view multiple answers for a question.	Users can view multiple answers for a question.
4.	Registered User should be able to ask a question or search for answers	User enters information	User should search using search bar	User should search using search bar
5.	Registered User should be able to ask a question or search for answers	User should navigate to ask a question page	Users when uses speech to text ,user speech words should be converted to text	Users when uses speech to text ,user speech words should be converted to text

Implementation:

Server side Implementation:-

We implemented the whole application in android studio.

The source code is written in java and used bootstrap to implement GUI of our application. The database is maintained by Mongo DB.

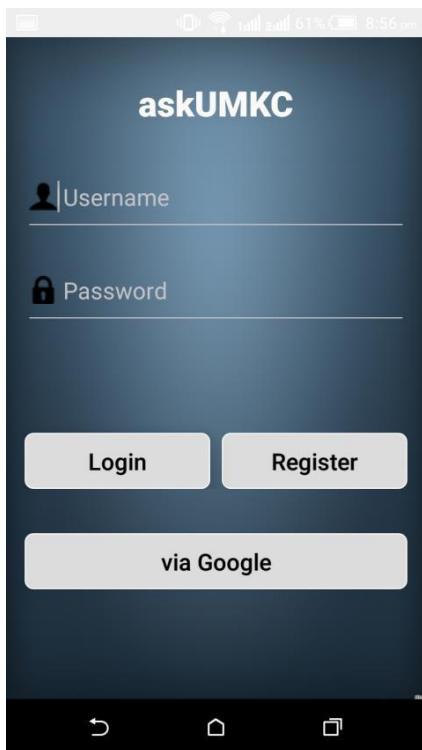
Mobile client Implementation:-

Mobile client application enable users to access the applications on their smart phones unlike web applications which need PC to access the application.

We are implementing our project in mobile client using android studio.

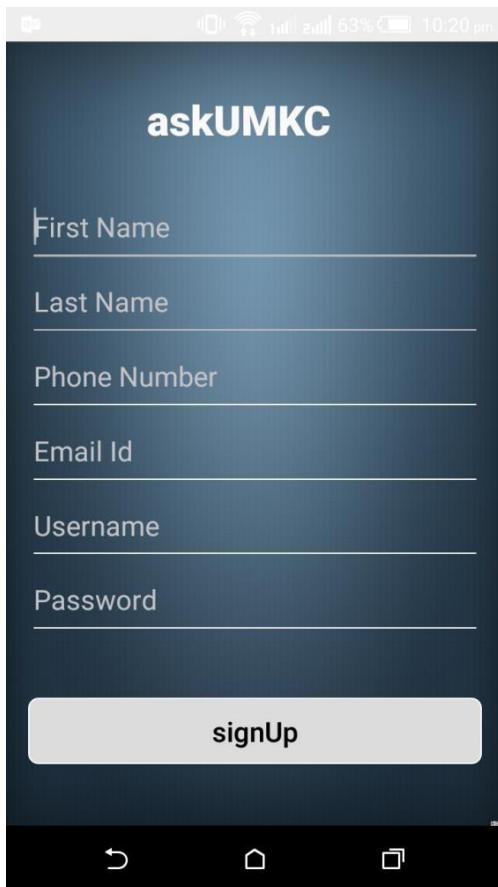
Deployment:

Login Screen:



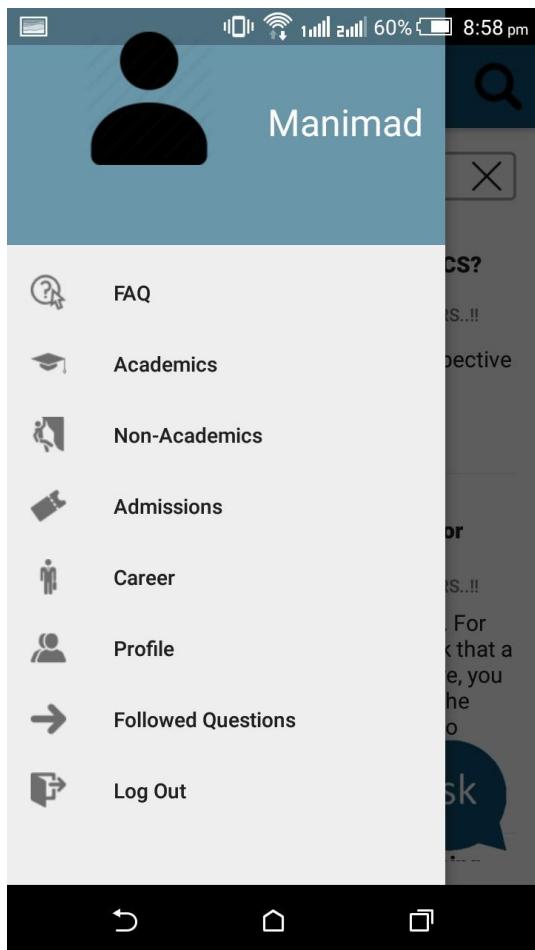
User can login using Google account or with the credentials of registered app account. New users can register for the app using register button.

Register:



In order to register, user should fill a form containing basic information like First Name, Last Name, Phone Number, Email Id, User Name, and Password. All the fields are mandatory to become a registered user. After successful registration, user will be redirected to login page and user have to login in order to view home page.

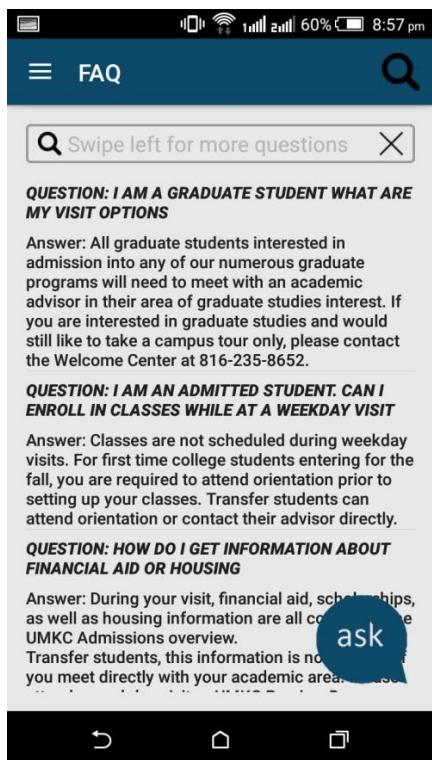
Categories (Menu)

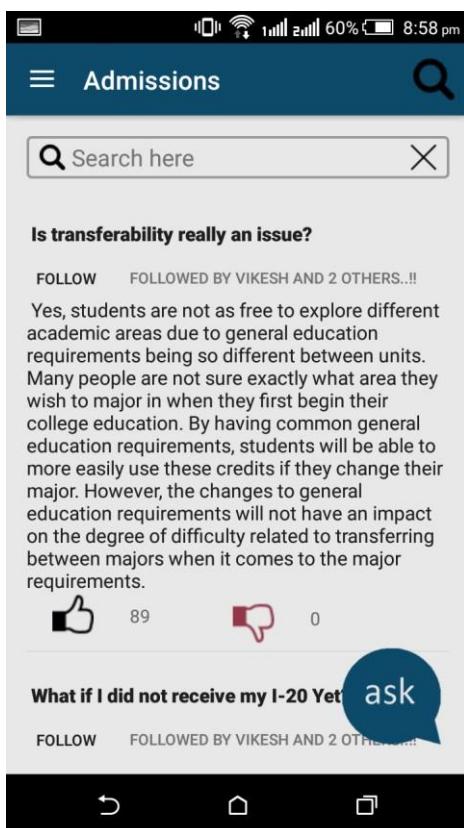
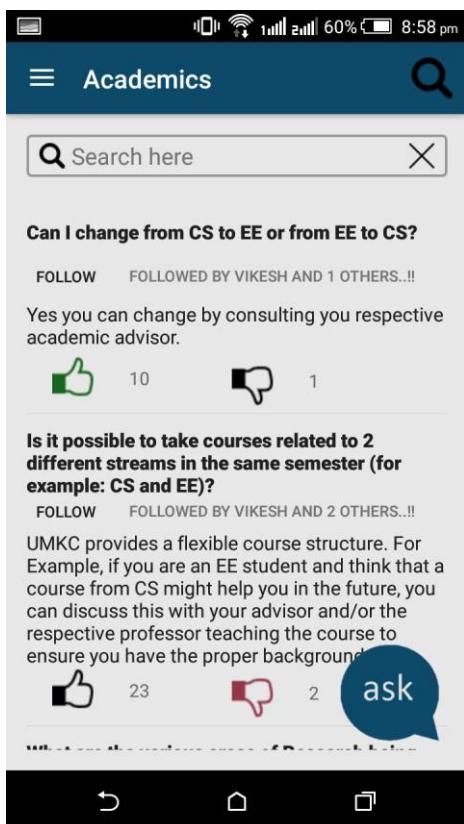


After successful login user navigates to home page where user can view all questions in a list view. User can scroll down to several questions. Questions are presented in reverse chronological order. Home will have menu option as shown in below image. Questions are divided into several categories and presented in menu. Menu will have options to 'update profile', 'My questions', 'FAQ'. Selecting a question launches a screen where user can see

question and answers given to them. User can add an answer here in same page. Here user will have option to up vote an answer.

Home Page:





8:59 pm

Career

Search here

How can I get Placed?

FOLLOW NO FOLLOWERS YET..!!

During On-Campus jobs how many hours can I work?

FOLLOW FOLLOWED BY VIKESH AND 2 OTHERS..!!

You can work for 20 hours in each week during regular semester hours. And in holidays if the job is available then you can work for up to 30 hours each week.

34 likes | 18 dislikes

How many TA, GA, RA positions are available?

FOLLOW FOLLOWED BY VIKESH AND 2 OTHERS..!!

There are many positions but it depends on the professor to select a student for these. And high TOEFL score and good GPA will help you a lot.

ask

8:59 pm

Followed Questions

Search here

How can I get information about financial aid or housing?

UNFOLLOW FOLLOWED BY VIKESH AND 2 OTHERS..!!

During your visit, financial aid, scholarships, as well as housing information are all covered in the UMKC Admissions overview. Transfer students, this information is not covered if you meet directly with your academic area. Please attend a weekday visit or UMKC Preview Day.

73 likes | 8 dislikes

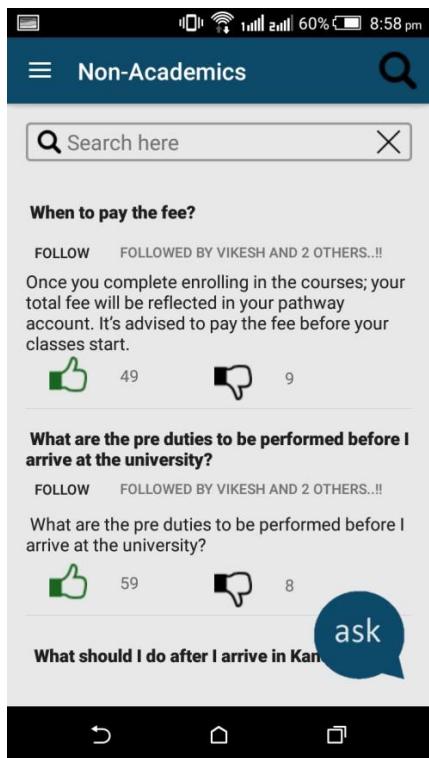
When to pay the fee?

UNFOLLOW FOLLOWED BY VIKESH AND 2 OTHERS..!!

Once you complete enrolling in the courses; your total fee will be reflected in your pathway account. It's advised to pay the fee before classes start.

49 likes | 9 dislikes

ask



The screenshot shows a mobile application interface. At the top, there is a status bar with icons for signal strength, battery level (60%), and time (8:59 pm). Below the status bar is a dark blue header bar with the text "AnswerList". The main content area has a light gray background. A question is displayed in bold black text: "How can I get information about financial aid or housing?". Below the question is a detailed answer in black text: "Answer: During your visit, financial aid, scholarships, as well as housing information are all covered in the UMKC Admissions overview. Transfer students, this information is not covered if you meet directly with your academic area. Please attend a weekday visit or UMKC Preview Day." Underneath the answer are two interactive buttons: a green thumbs-up icon labeled "73" and a red thumbs-down icon labeled "8". A horizontal line separates this section from a blue button at the bottom labeled "WRITE YOUR ANSWER...!!". At the very bottom of the screen is a black navigation bar containing three white icons: a circular arrow, a house, and a square.

Home page consists of FAQ questions as a list view, when clicked on a specific question it navigates to a page with multiple answers for that question and a button where user can post a answer. There is a vote up option to decide appropriate answers for every question in the form of like and dislike buttons. Moreover, users can follow questions using follow button if needed. Users can search for questions using search bar in the home screen.

Ask question:



Select a Category

Non-Academics ▾

Question.....



POST

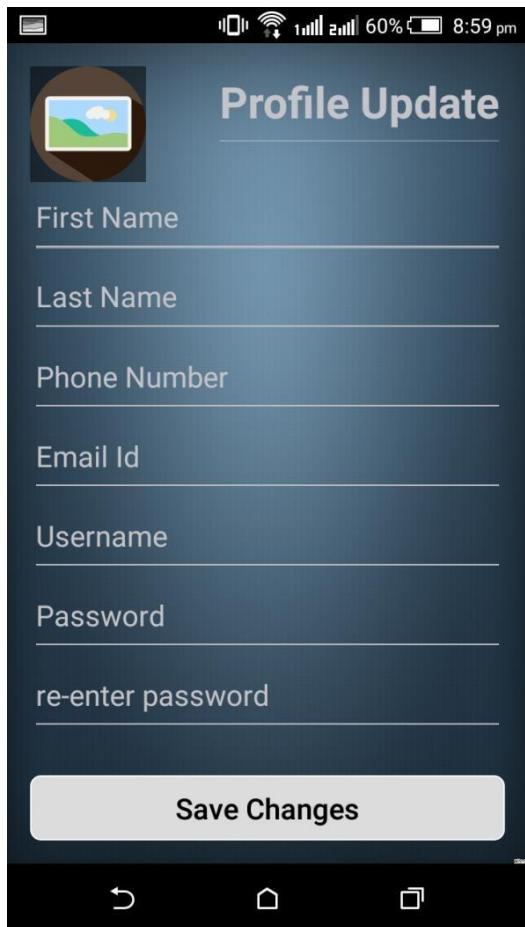


User can ask a question by touching 'Ask' button on home page.

After touching 'Ask' button in home page, user will be redirected to ask question screen. Here user will have different views to add question, add category.

In ask question page user have a facility to convert text to speech.

Profile Update:



User can update various details of his profile like photo, password etc as shown in below screens.

System requirements:

Operating System: Windows /Linux/Mac OS X

RAM: 2 GB RAM (takes lot of time to run, so 4 GB recommended) Hard

Disk: 400 MB hard disk

Data Base: Mongo DB (can alter depending upon future enhancements)

Servers: Amazon Server (can alter depending upon availability of free online sources) Software's: Java

Development kit (JDK) and Android SDK

Screen resolution: 1280px * 800px minimum

Additional: 1 GB space is required for android SDK, images and cache data

Project Management:

project timeline: 03-11-

2016 members:

- Sravan Kumar Appana
- Vikesh Padarthi
- Architha Mukka
- Manikanta Maddula

Issue1: Sravan worked on implementing search bar in home screen. So, that users can search for any question. Sravan and Vikesh together worked in implementing email notification. He worked for about 50 hours.

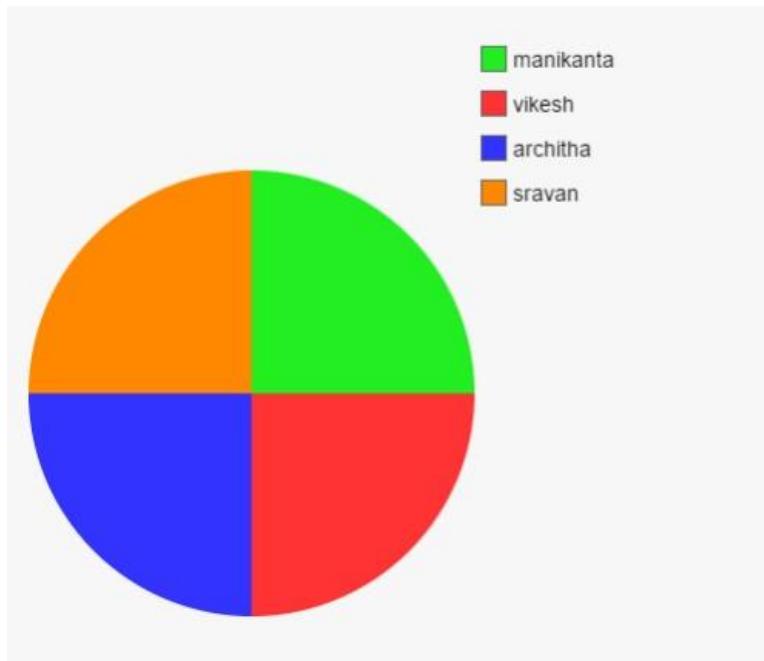
Issue2: Architha worked on UI part and changes to before screens. Worked on auto incrementing question ids globally for adding new questions to Mongo DB and fixed bugs in the application. She worked for about 40 hours.

Issue3: Vikesh worked on implementing speech to text conversion. Vikesh and Sravan together implemented email notification. Vikesh worked to Delete/Update operations on documents present in Mongo lab. Vikesh worked for about 50 hours.

Issue 4: Login is one of the basic operations that will be performed by any user. Our app allows to login by creating a profile or using Gmail account. Manikanta worked on integrating Gmail login, normal login, and validating a user while logging in. Worked to present questions in reverse chronological order from Mongo DB and fixed some bugs. He worked for about 45 hours.

Issues/Concerns:

1. Service Calls.
2. To improve performance degradation.



Bibliography:

1) <https://www.quora.com>

2) <http://www.umkc.edu/>



What are you just thinking about?



I have many doubts about UMKC but no idea of getting answers.

No worries!! There is a app for UMKC to help students



INTRODUCTION

- The Application is about questionnaires where any user can post a question and answer.
- The questions need not be in specific area like finance, course and sports etc., it can be of any topic related to university activities like events, career, etc.
- Student who wants to join UMKC will have many doubts like 'last date for paying fee!', 'where is a particular event?', 'Student associations' etc.
- It is easy to drop a mail to the authorities asking for details but if answer is needed on weekends and on holidays, it's difficult. But with this application, user gets answer at any time.

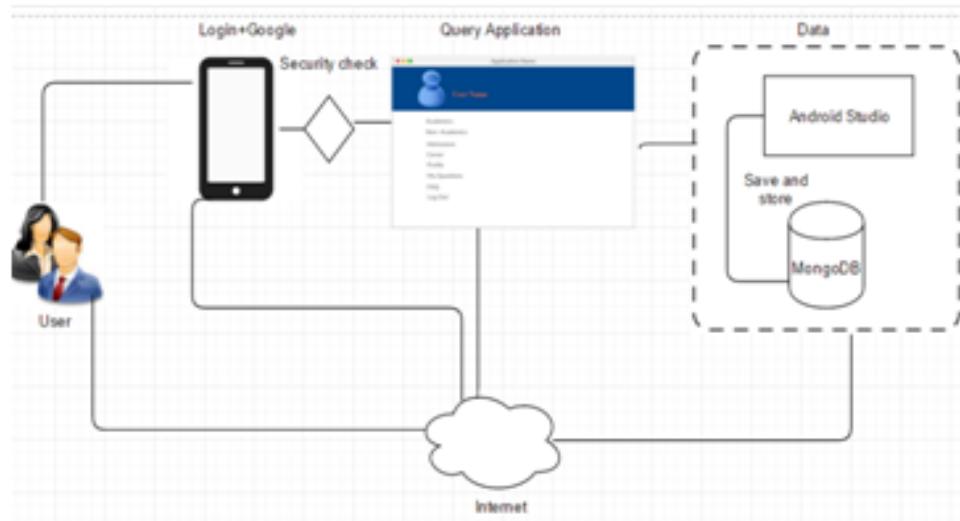
FEATURES

- Login with GMAIL or with user credentials
- Register for new users.
- Displays various fields like Academic, Non-Academic, Admissions, Career, Update Profile, FAQ.
- Ask button to post a question of any field.
- Single question with multiple answers.
- Search bar to search any question.
- LIKE, UNLIKE, FOLLOW, UNFOLLOW, Followed by buttons.
- Speech to text conversion.
- GMAIL Notifications.

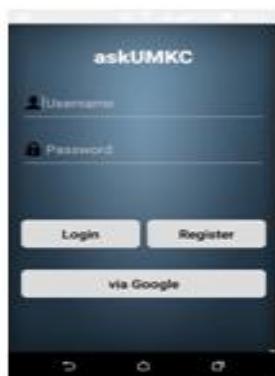
IMPLEMENTATION

- Implemented the whole application in android studio. Mobile client application enable users to access the applications on their smart phones unlike web applications which need PC to access the application.
- The source code is written in java and used bootstrap to implement GUI of our application. The database is maintained by Mongo DB.

SYSTEM ARCHITECTURE



DEPLOYMENT



LOGIN PAGE

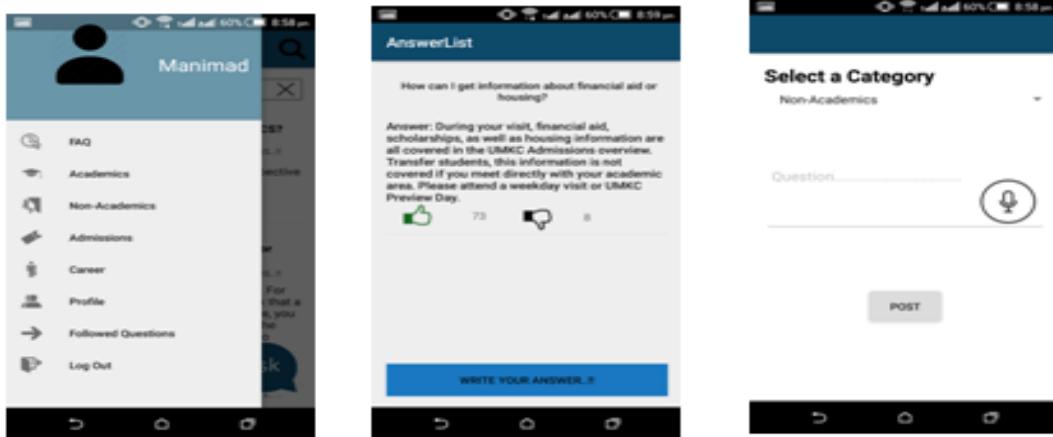
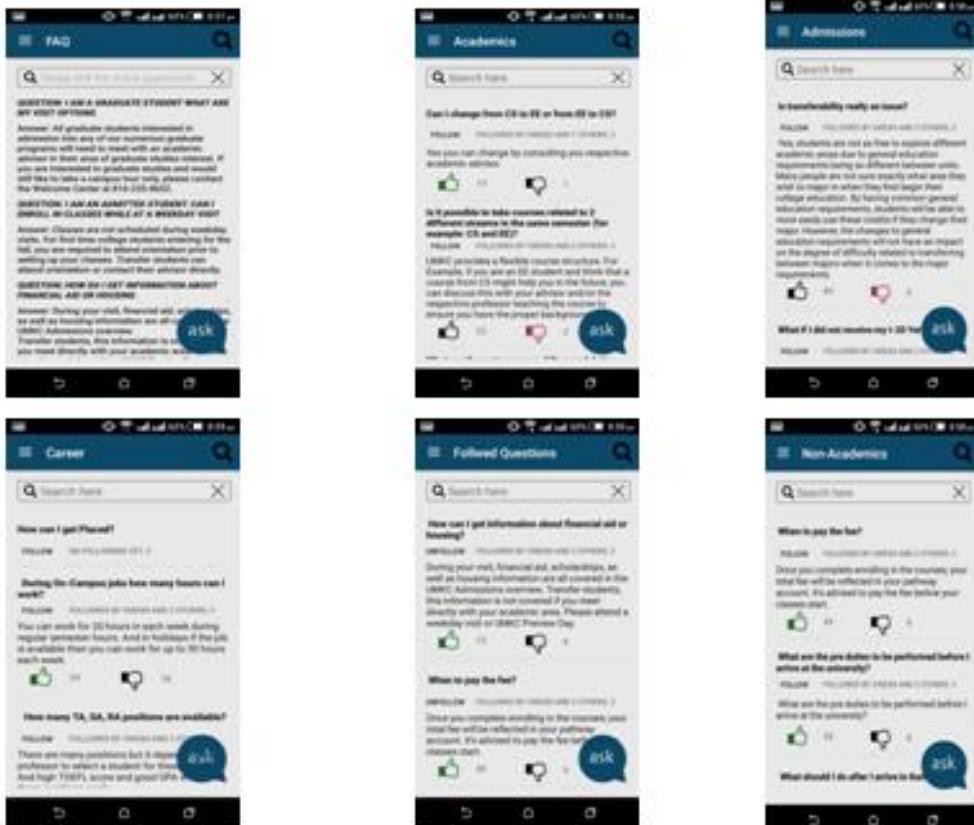


REGISTER PAGE



PROFILE UPDATE

CATEGORIES



GIT HUB URL:

https://github.com/SCE-UMKC/ASESP16_ASKUMKC_12/tree/master/Source/May%202nd

YOU TUBE URL:

<https://www.youtube.com/watch?v=Cva9fC0ynGk&feature=youtu.be>

