

# **SI 543 Java - Draft Project Proposal**

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## **Part 1**

### **Purpose**

This app connects students with student mentors to seek academic or career advice.

### **User group**

1. Start by connecting high school students/Freshmen/sophomore to junior/senior/grad student/phd at UM.
2. Expand to other universities.

### **Why is it important?**

The students often feel the need to consult a mentor. The mentors, in this app, refer to current students at university, who are interested in providing counseling. Through this app, the interested students can seek useful academic and professional guidance and it will help them achieve their academic and professional goals.

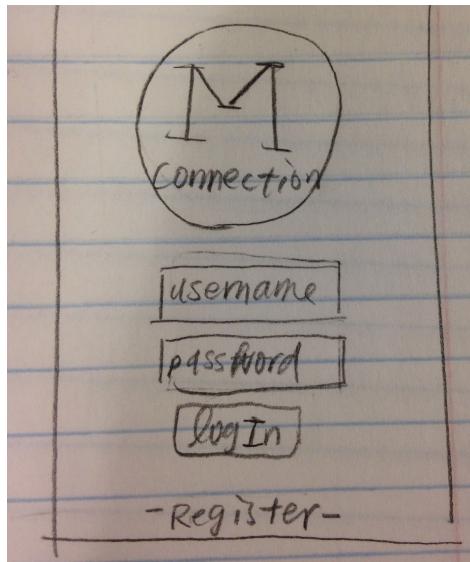
### **Competitors**

- Mentor (App)
- LinkedIn
- Quora

### **Why is your idea better?**

Our app is the only app that focuses primarily on college students, in which users/students can search for other students as mentors. Users can seek guidance from other students (mentors) in their field(s) of interest (through virtual contact) and can provide advice to others as well. Unlike Quora or other Q&A app, it provides a private platform where students can feel comfortable to share their concerns and feedback. In comparison to other messenger apps, our app allows each user to send only one message to a mentor in a day. With this limit, the message will have to be more informative and the mentor would find it more manageable.

## Sketch



### Activity 1 - Login Page

#### Description:

A screen where existing users can log in and new users can click on 'Register' to proceed to create a new account.

**View->** 'M connection' Icon (ImageView)

**View ->** 'Username' textbox (EditText)

**View ->** 'Password' textbox (EditText)

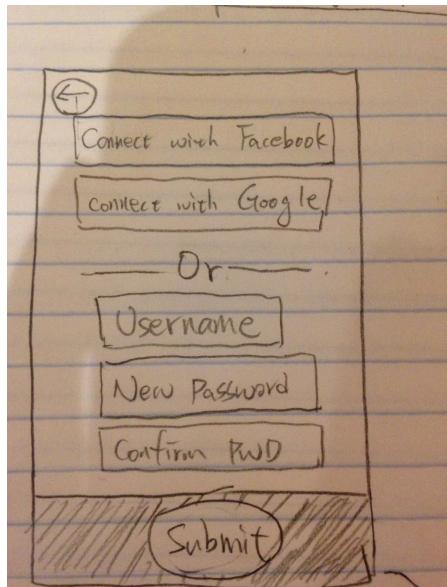
**ViewGroup ->** TableLayout

**View ->** 'LogIn' button (Button)

-> press this to start 'Activity 3'.

**View ->** '-Register-' button (Button)

-> press this to start 'Activity 2'.



### Activity 2 - Create new account Page

#### Description:

A screen where new users create a new account or log in through their Facebook or Google Accounts.

**View ->** 'Connect with Facebook' button (Button)

**View ->** 'Connect with Google' button (Button)

**ViewGroup ->** TableLayout

**View ->** '-Or-' text (TextView)

**View ->** 'Username' textbox (EditText)

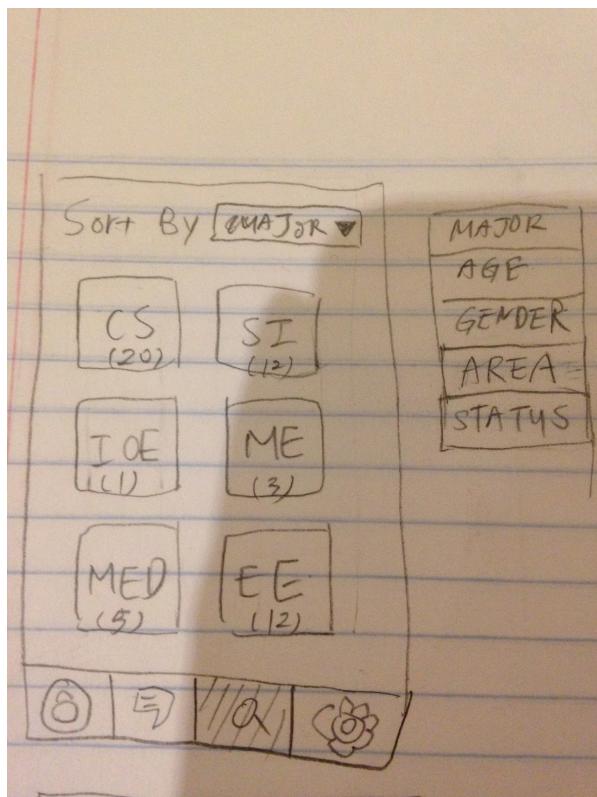
**View ->** 'New Password' textbox (EditText)

**View ->** 'Confirm PWD' textbox (EditText)

**ViewGroup ->** TableLayout

**View ->** 'Submit' button (Button)

-> press this to start 'Activity 3'.



## Activity 3 - Find mentor Page

### Description:

A screen where user can filter potential mentors using criteria such as 'Academic Major', 'Age', 'Gender', 'Area' and 'Availability Status'.

**View** -> 'Sort by Major, Age, Gender, Area, Status' (Filter)

**View** -> 'CS' button (ImageButton)  
-> press this to start 'Activity 4'.

**View** -> 'SI' button (ImageButton)  
-> press this to start 'Activity 4'.

**View** -> 'IOE' button (ImageButton)  
-> press this to start 'Activity 4'.

**View** -> 'ME' button (ImageButton)  
-> press this to start 'Activity 4'.

**View** -> 'MED' button (ImageButton)  
-> press this to start 'Activity 4'.

**View** -> 'EE' button (ImageButton)  
-> press this to start 'Activity 4'.

**ViewGroup** -> GridLayout

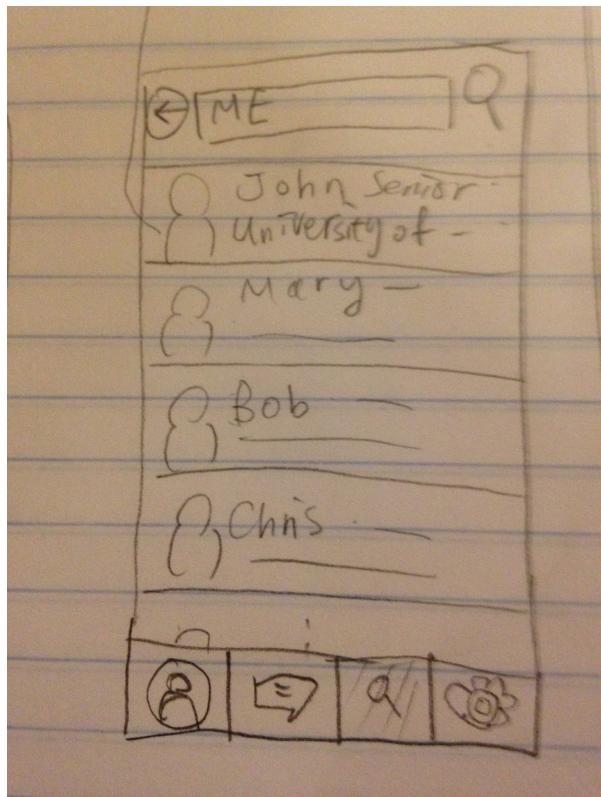
**View** -> User profile icon button (ImageButton)  
-> press this to start 'Activity 6'.

**View** -> Message icon button (ImageButton)  
-> press this to start 'Activity 8'.

**View** -> Search icon button (ImageButton)  
-> press this to start 'Activity 3'.

**View** -> Settings icon button (ImageButton)  
-> press this to start 'Activity 7'.

**ViewGroup** -> Menu items at the bottom (HorizontalScrollView)



## Activity 4 - Mentor list Page

### Description:

A screen where a list of potential mentors is populated.

**View** -> Search box at top (SearchView)

**ViewGroup** -> Populated list items (ListView)

-> click on a list item to start 'Activity 5'.

**View** -> User profile icon button (ImageButton)

**View** -> Message icon button (ImageButton)

**View** -> Search icon button (ImageButton)

**View** -> Settings icon button (ImageButton)

**View** -> User profile icon button (ImageButton)

-> press this to start 'Activity 6'.

**View** -> Message icon button (ImageButton)

-> press this to start 'Activity 8'.

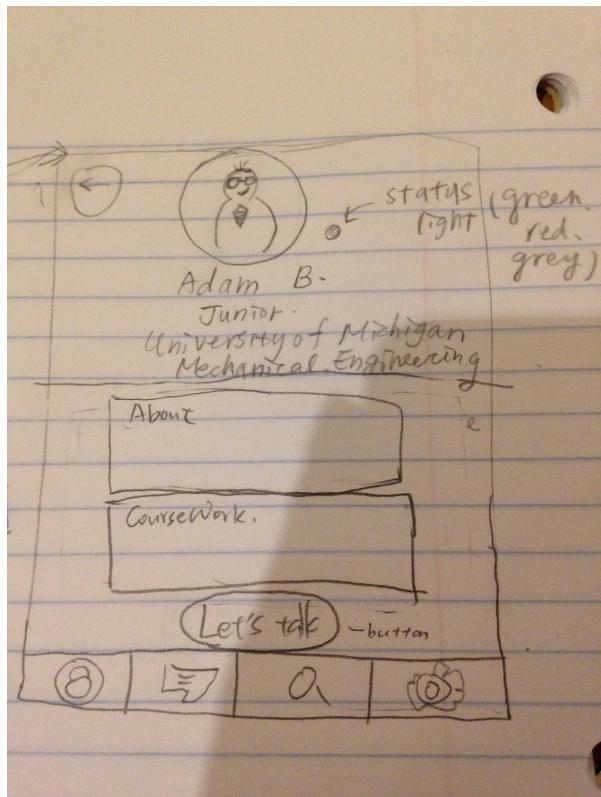
**View** -> Search icon button (ImageButton)

-> press this to start 'Activity 3'.

**View** -> Settings icon button (ImageButton)

-> press this to start 'Activity 7'.

**ViewGroup** -> Menu items at the bottom (HorizontalScrollView)

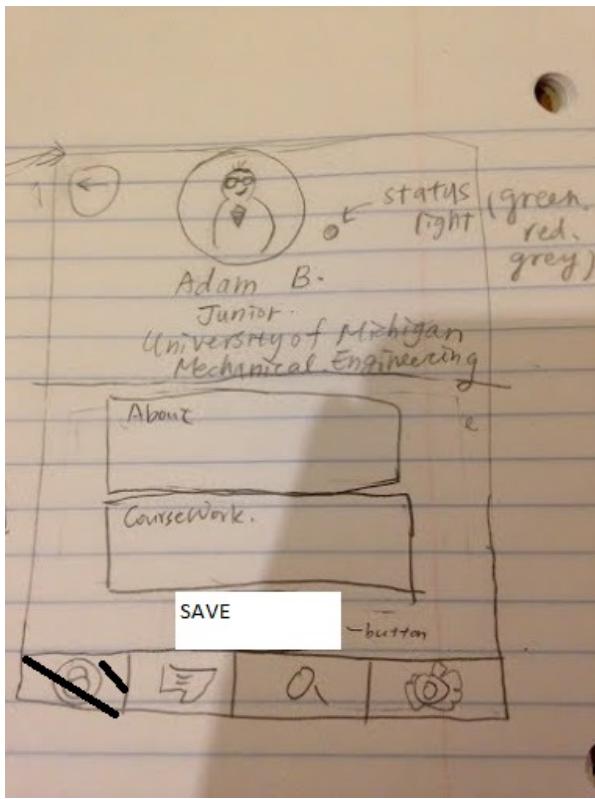


## Activity 5 - Mentor profile Page

### Description:

A screen displays a mentor's detailed information, such as about me, coursework.

- View->** User picture (ImageView)
- View ->** User Name text (TextView)
- View ->** Year text (TextView)
- View ->** University text (TextView)
- View ->** Academic major text (TextView)
- View->** Status light Image (ImageView)
- ViewGroup ->** TableLayout
- View ->** 'About' textbox (TextView)
- View ->** 'CourseWork' textbox (TextView)
- ViewGroup ->** TableLayout
- View ->** 'Let's talk' button (Button)
  - > press this to start 'Activity 8'.
- View ->** User profile icon button (ImageButton)
- View ->** Message icon button (ImageButton)
- View ->** Search icon button (ImageButton)
- View ->** Settings icon button (ImageButton)
- View ->** User profile icon button (ImageButton)
  - > press this to start 'Activity 6'.
- View ->** Message icon button (ImageButton)
  - > press this to start 'Activity 8'.
- View ->** Search icon button (ImageButton)
  - > press this to start 'Activity 3'.
- View ->** Settings icon button (ImageButton)
  - > press this to start 'Activity 7'.
- ViewGroup ->** Menu items at the bottom (HorizontalScrollView)



## Activity 6 - User profile Edit Page

### Description:

A screen where a user can edit and save his/her profile description.

**View->** User picture (ImageView)

**View ->** User Name text (TextView)

**View ->** Year text (EditText)

**View ->** University text (EditText)

**View ->** Academic major text (EditText)

**View->** Status light Image (ImageView)

**ViewGroup ->** TableLayout

**View ->** 'About' textbox (EditText)

**View ->** 'CourseWork' textbox (EditText)

**ViewGroup ->** TableLayout

**View ->** 'Save' button (Button)

**View ->** User profile icon button (ImageButton)

**View ->** Message icon button (ImageButton)

**View ->** Search icon button (ImageButton)

**View ->** Settings icon button (ImageButton)

**View ->** User profile icon button (ImageButton)

-> press this to start 'Activity 6'.

**View ->** Message icon button (ImageButton)

-> press this to start 'Activity 8'.

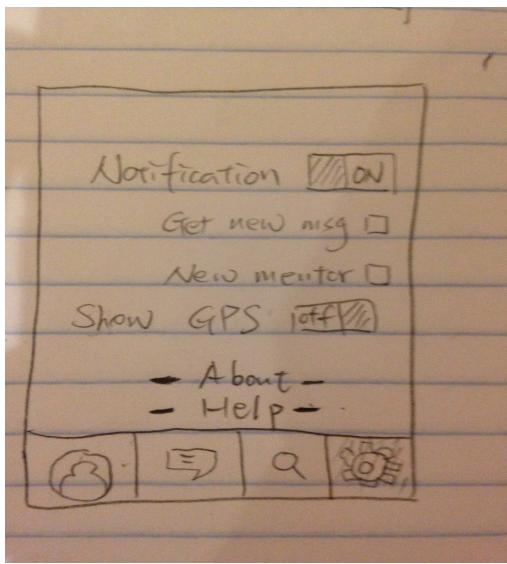
**View ->** Search icon button (ImageButton)

-> press this to start 'Activity 3'.

**View ->** Settings icon button (ImageButton)

-> press this to start 'Activity 7'.

**ViewGroup ->** Menu items at the bottom (HorizontalScrollView)



## Activity 7 - Settings Page

### Description:

A screen where a user change settings for the app - turning notifications from the app on or off.

**View** -> Notification state (Switch)

**View** -> 'Get New Msg' check box (CheckBox)

**View** -> 'New Mentor' check box (CheckBox)

**View** -> Show GPS state (Switch)

**View** -> '-About-' button (Button)

**View** -> '-Help-' button (Button)

**ViewGroup** -> TableLayout

**View** -> User profile icon button (ImageButton)

**View** -> Message icon button (ImageButton)

**View** -> Search icon button (ImageButton)

**View** -> Settings icon button (ImageButton)

**View** -> User profile icon button (ImageButton)

-> press this to start 'Activity 6'.

**View** -> Message icon button (ImageButton)

-> press this to start 'Activity 8'.

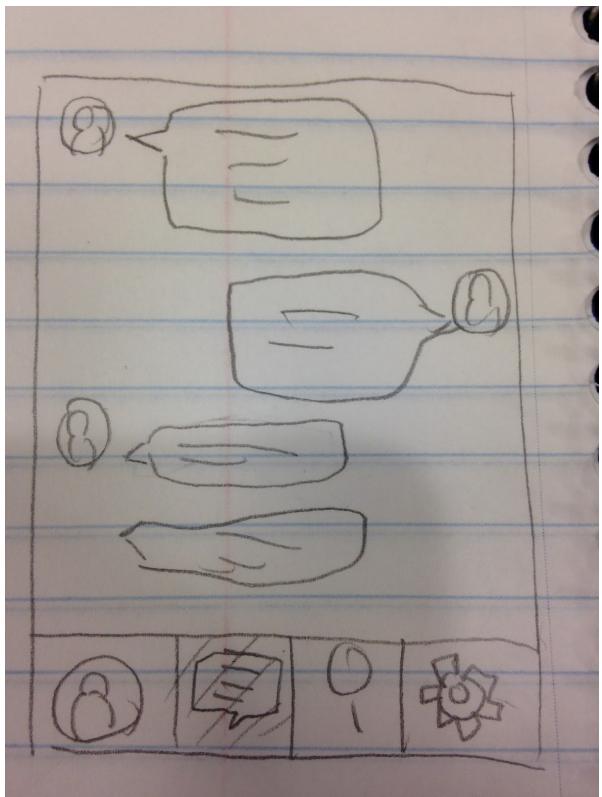
**View** -> Search icon button (ImageButton)

-> press this to start 'Activity 3'.

**View** -> Settings icon button (ImageButton)

-> press this to start 'Activity 7'.

**ViewGroup** -> Menu items at the bottom (HorizontalScrollView)



## Activity 8 - Messenger Page

### Description:

A screen where a user can see own chat history or/and enter text to start a conversation.

**View->** User picture (ImageView)

**View ->** Message (TextView)

**View ->** 'Enter Text' textbox (EditText)

**ViewGroup ->** ScrollView

**View ->** User profile icon button (ImageButton)

**View ->** Message icon button (ImageButton)

**View ->** Search icon button (ImageButton)

**View ->** Settings icon button (ImageButton)

**View ->** User profile icon button (ImageButton)

-> press this to start 'Activity 6'.

**View ->** Message icon button (ImageButton)

-> press this to start 'Activity 8'.

**View ->** Search icon button (ImageButton)

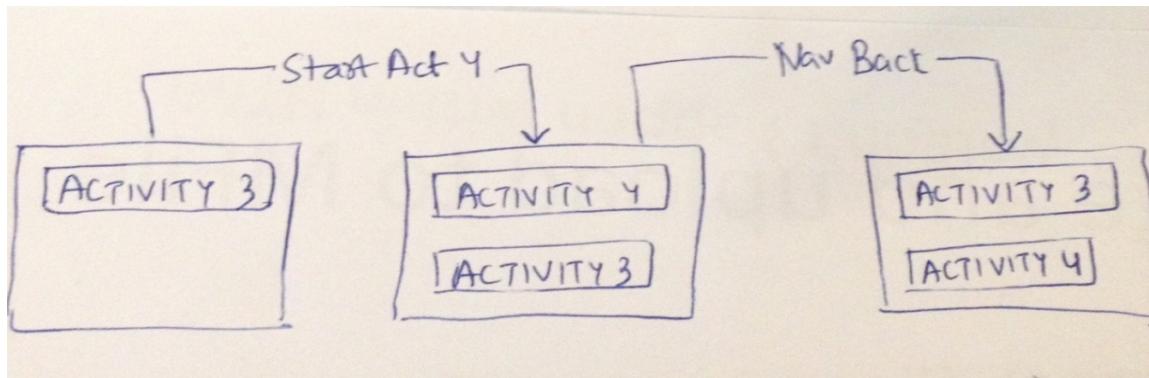
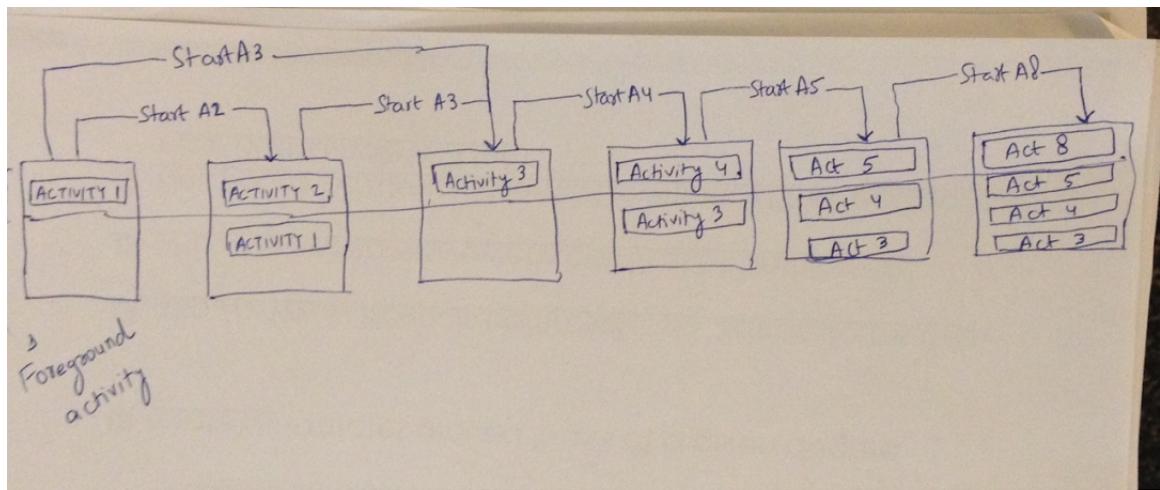
-> press this to start 'Activity 3'.

**View ->** Settings icon button (ImageButton)

-> press this to start 'Activity 7'.

**ViewGroup ->** Menu items at the bottom (HorizontalScrollView)

### ACTIVITY STACK DIAGRAMS:



The following activity stack diagrams hold true if the starting Activity is 'Activity 3, 4, 5, 6 , 7, 8':

