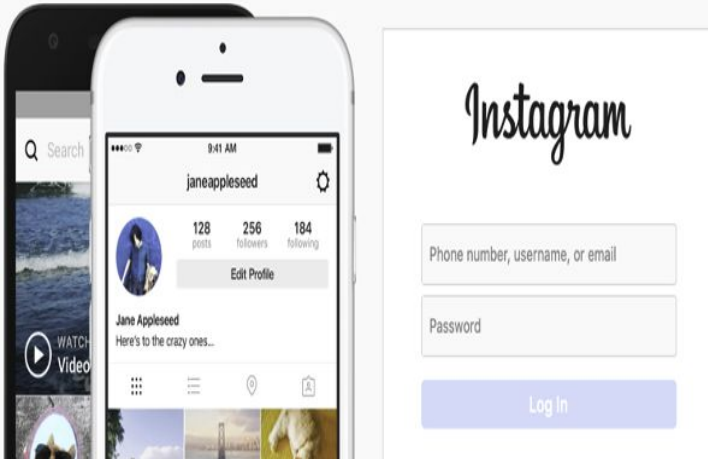


# MILESTONE 1

By Archie Verma  
(a1745070)

## RESEARCH AND SITE DESIGN



My main page (login page) is inspired by Instagram's simple but good looking login page (<https://www.instagram.com/>). Upon visiting the login page, the main features allows the user to enter username or email and password if they already have an account. If they don't have an account then they can click on the signup button, which will take them to the signup page. It is accompanied by a background image and a logo of the website (which is yet to be designed).

## Create a new account

It's quick and easy.

**Birthday**

**Gender**

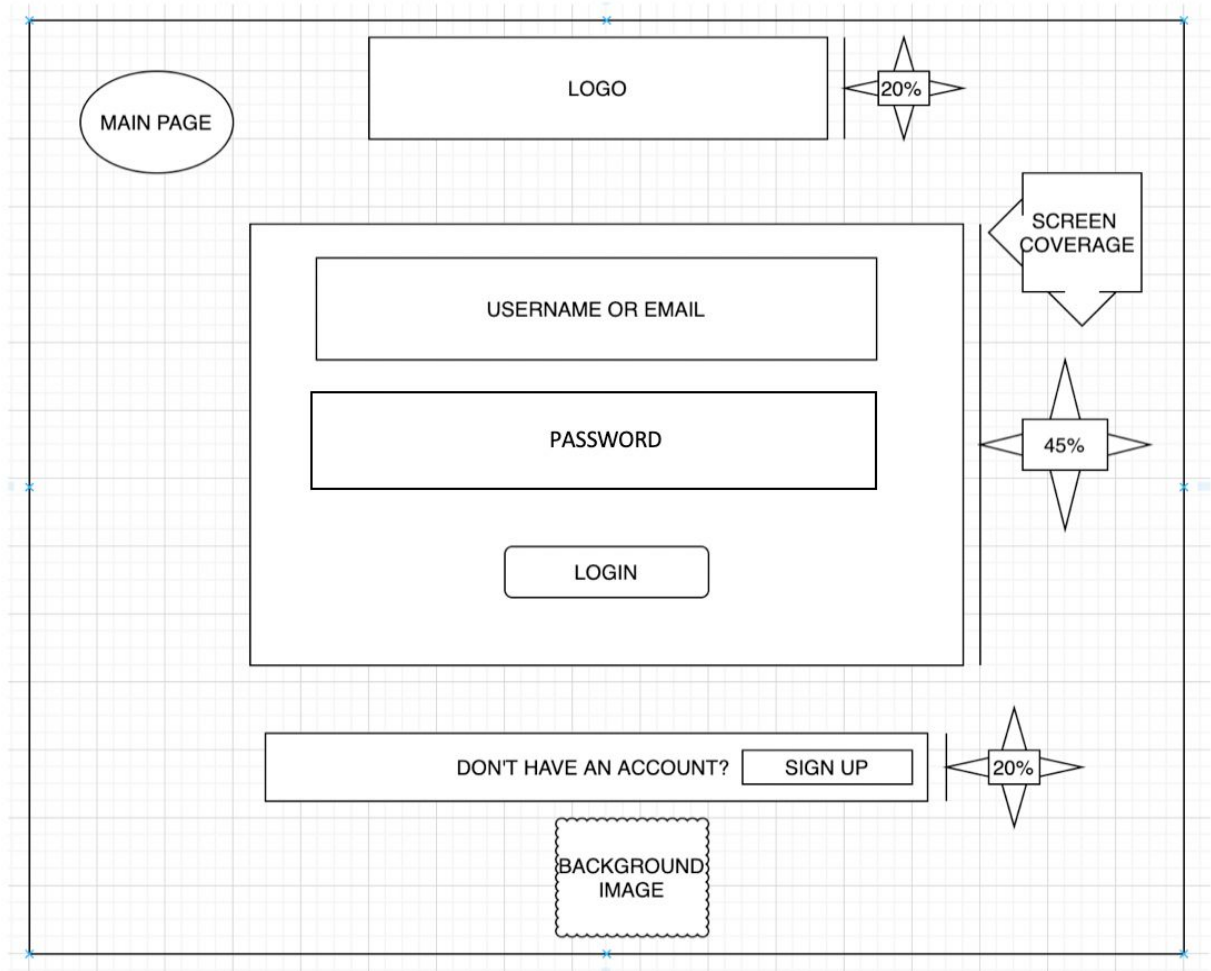
☐ Female ☐ Male ☐ Custom

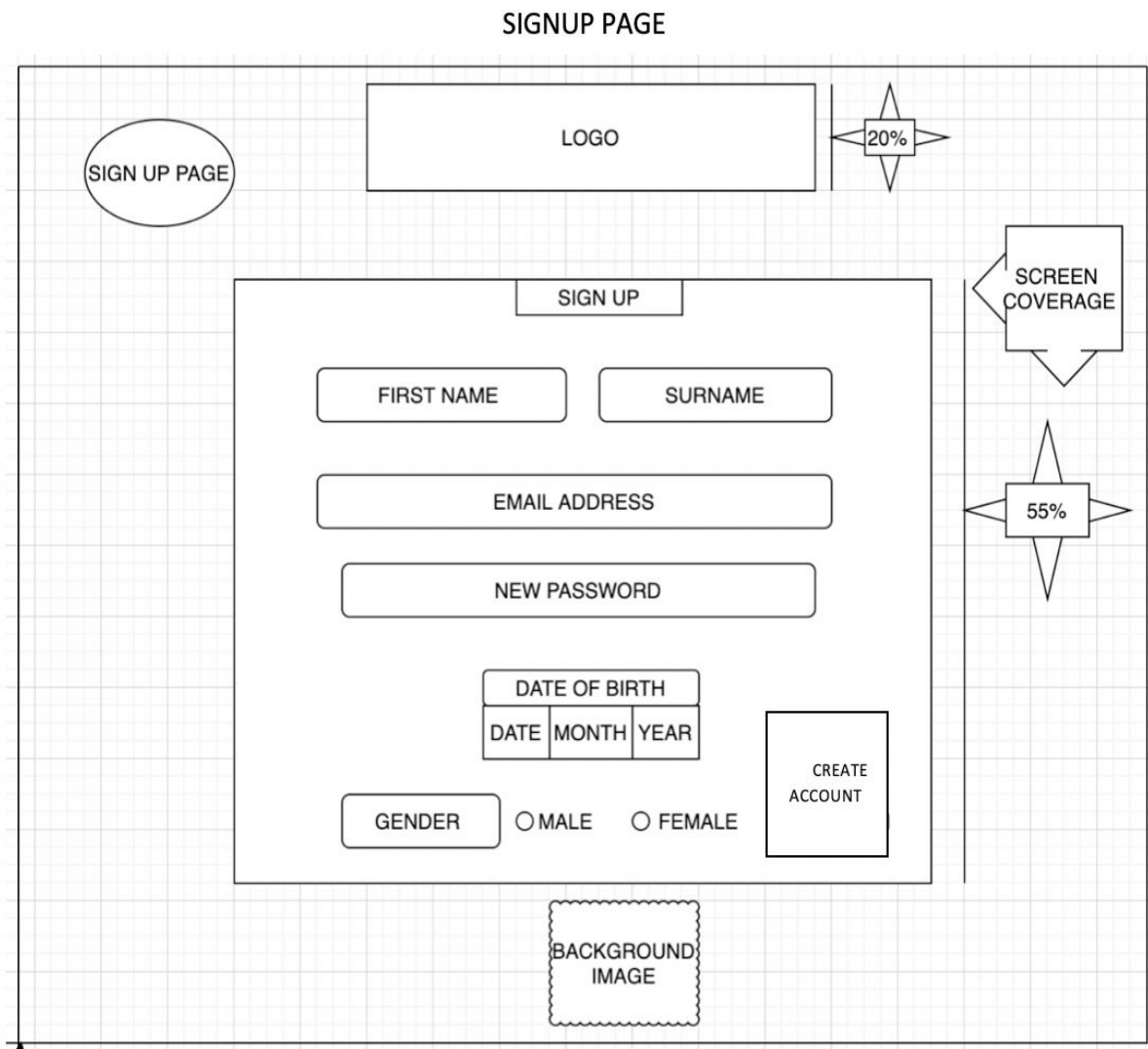
By clicking Sign Up, you agree to our [Terms](#), [Data Policy](#) and [Cookie Policy](#). You may receive SMS notifications from us and can opt out at any time.

Another website I looked at was <https://www.facebook.com>. I designed my sign up page like this one. The signup page has a background image and website logo as well and the user has to fill some general information like their name and last name (the first name of the user name attached with their last name will automatically be taken as their username by the system), date of birth and gender. Then they can just enter their email address and a new password, upon pressing create account button they will receive an email on the email address they have put in (it will have the automatically generated username as well) and they just have to press yes to verify email and then they will go to the profile page directly. This is a simplistic layout with a purpose of logging in and also creating a new

account so that the user can explore the other features of the application and is very easy to use.

### MAIN (LOGIN) PAGE:



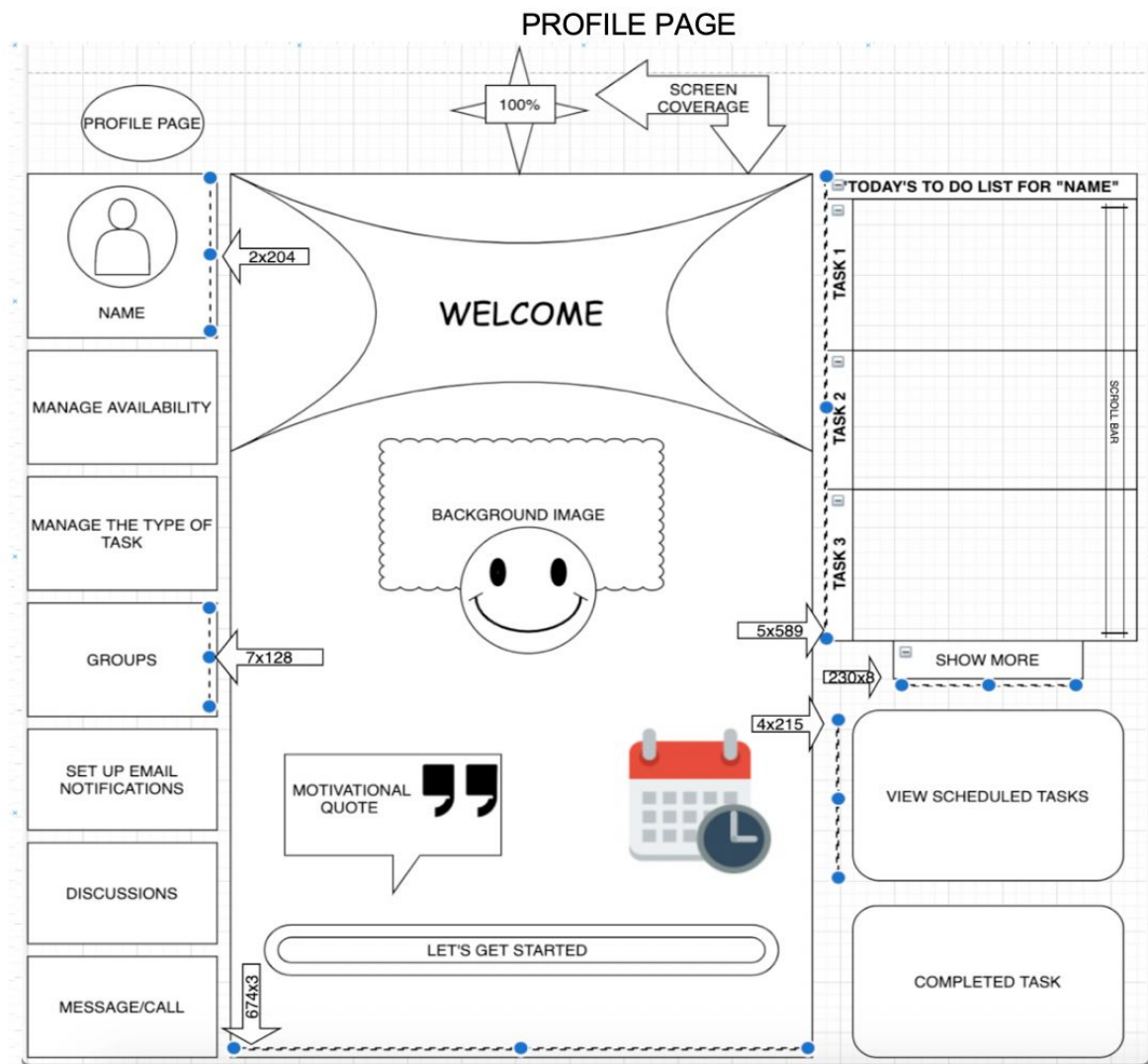


The next page that I looked at was the uniadelaide's my uni page <https://myuni.adelaide.edu.au/>. The task requirements were that upon loading, the system should display the current tasks that need to be done today and the user who is assigned that task.

Hence, I thought about the my uni page and how convenient it is to view the daily to-do list on the right of the page as shown below, hence I designed the right side of my page like myuni page. I chose to put the icons like myuni has on the left side, these icons allow users to view their scheduled tasks, manage their profile/user information, manage their availability and manage the types of tasks they can/want to do. They also allow the managers to manage their profile/manager information, create and manage different tasks and assign tasks or groups of tasks to users.



In the center, I just have a welcome page which has a background image, a calendar and a clock and a motivational quote to motivate the users to complete the tasks. On the left side I have got all the icons like myuni has on it's page, I also took discussion from my uni as one of the features in my web application.



The next two photos show how different icons open on myuni, one at a time. I have done the same thing in my design every left side icon will open like this one at a time and the design below describes what all features do the icons perform ,I have drawn all in one page instead of drawing each one on same page but in the website they will open like that but one at a time when we click on them. These different icons do different things ,the group icon has different features and the assign group feature can only be accessed by the managers and not users as managers are responsible to assign tasks in a group.

[illegible]

University of Adelaide

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- 
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- 
- 
-

## Groups

G3 - Student Life

P7

Thursday(8am-9am): G4

WR05 02

All groups

ing your University email address.

Online networking task - D...

Entrepreneurship Foundations and Mindset

4 May at 13:24 |

Week 8 - Lecture

Software Engineering Wkshop I (2205\_2205UAC Combined)

4 May at 14:45 |

Week 8: What's Happening...

Web and Database Computing (2207\_7207 Combined)

4 May at 18:09 |

Practical Exercise 6

Web and Database Computing (2207\_7207 Combined)

35 points |

4 May at 23:59 |

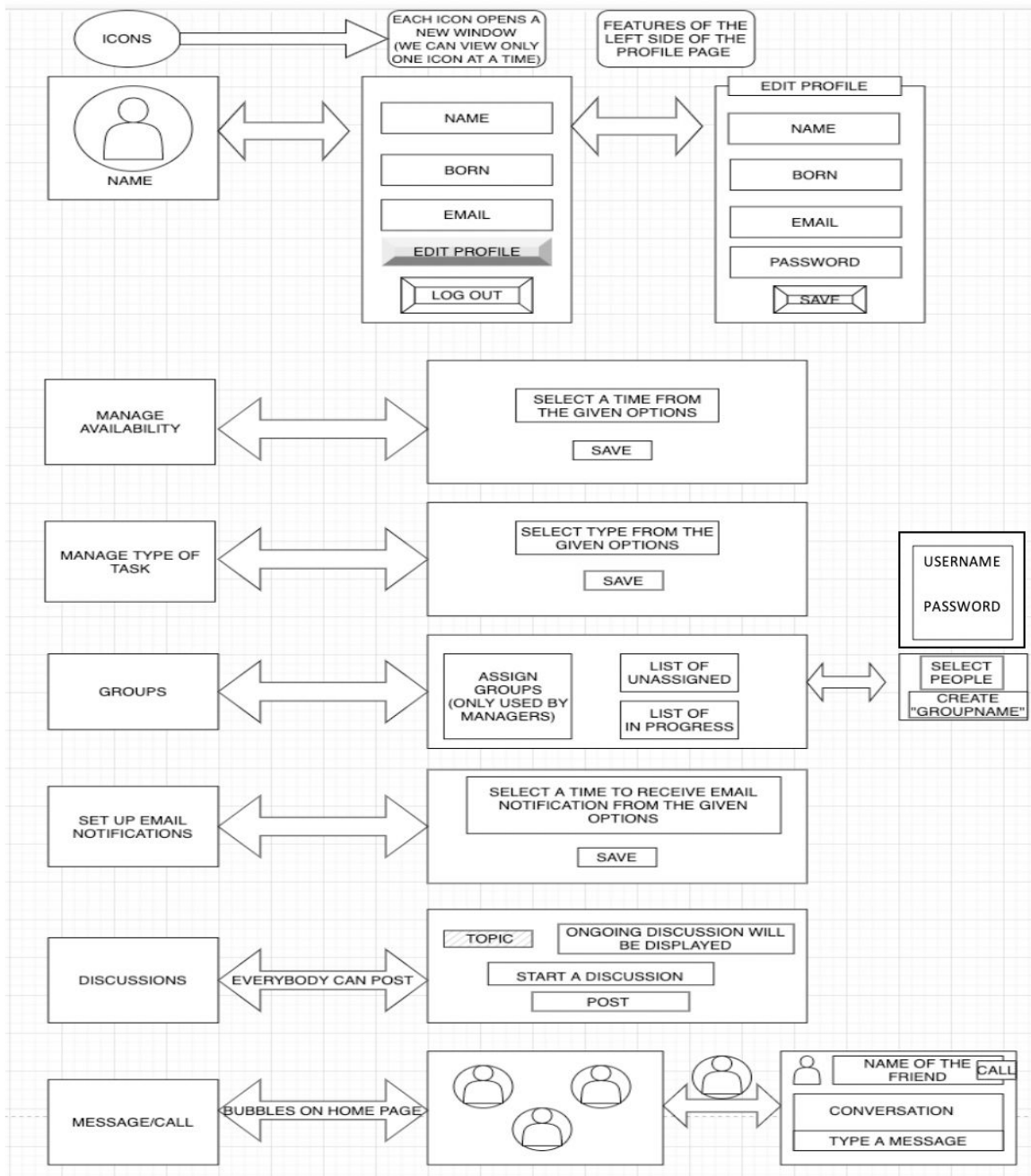
Practical Sessions

Algorithm Design & Data Structures (2103\_7103 Combined)

5 May at 13:45 |

Show all

## LEFT SIDE ICONS (THEY OPEN ONE AT A TIME) OF PROFILE PAGE IN DETAIL

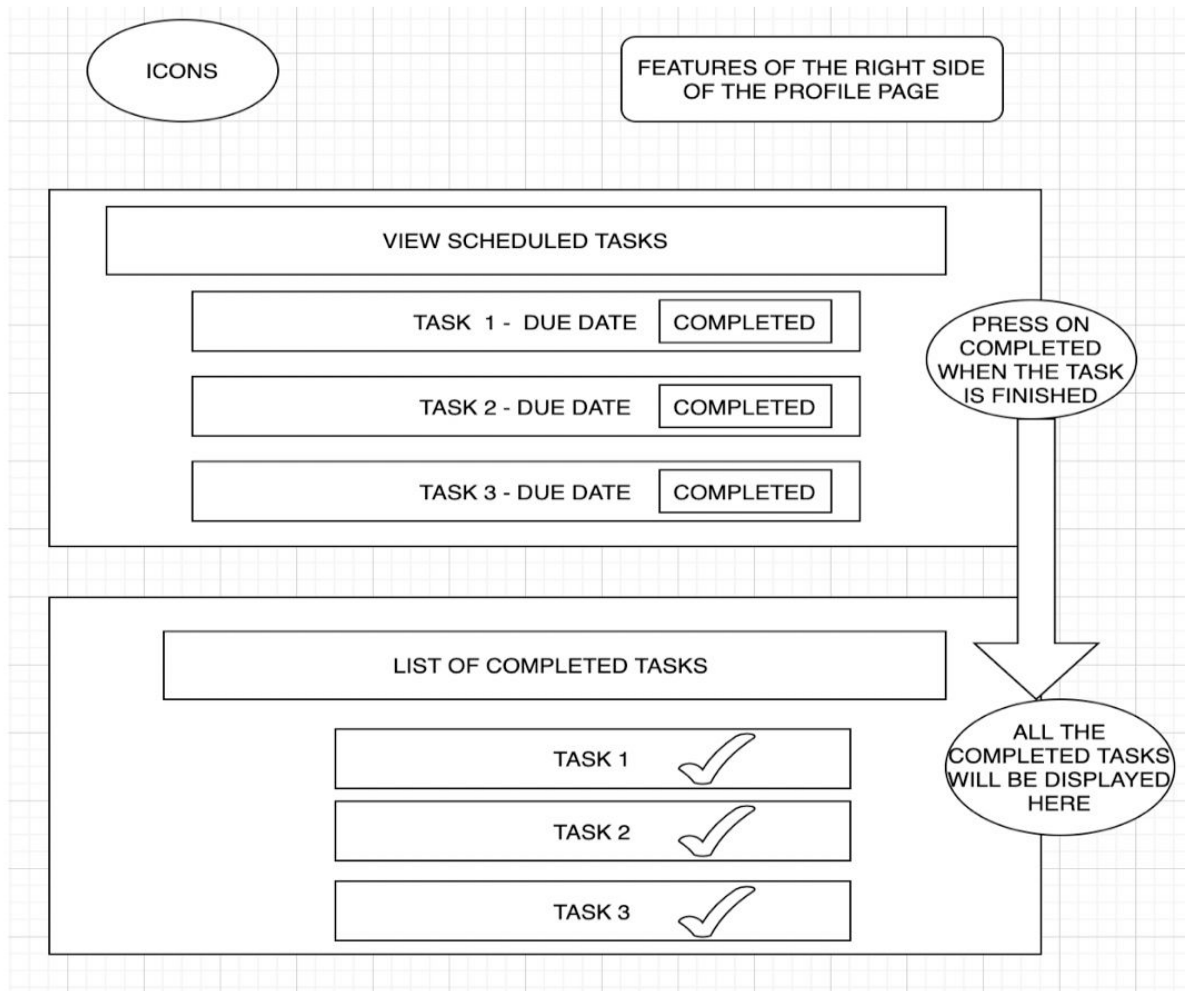


Right side icons have scheduled tasks, when the user clicks on it shows all the tasks that supposed to be done (not just on the current day but in the future as well) and after the tasks is



completed use can press the button for completed and then that task will be displayed in the list of completed tasks at the bottom left.

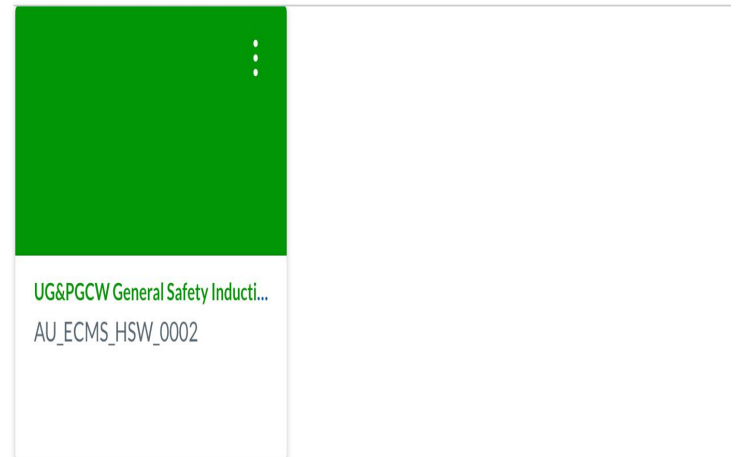
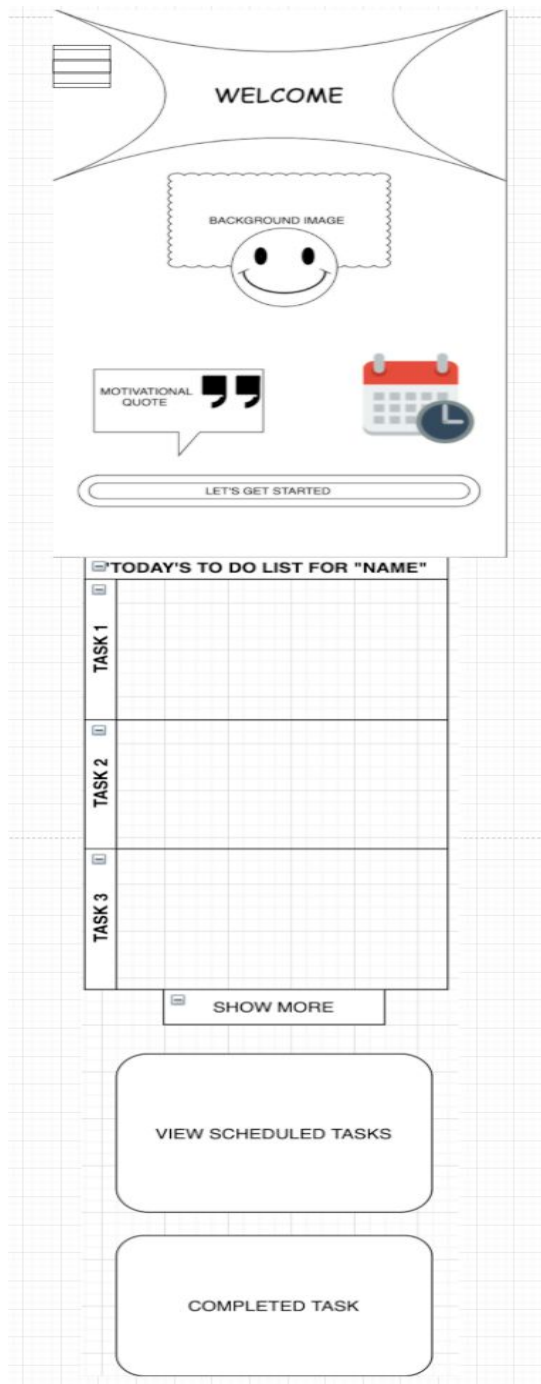
#### RIGHT SIDE ICONS OF PROFILE PAGE IN DETAILS



**MINIMISED VIEW OR PHONE VIEW:** The minimised view is inspired by myuni as well, we can compare and see how the to do list is coming at the bottom in my uni page and similar in my



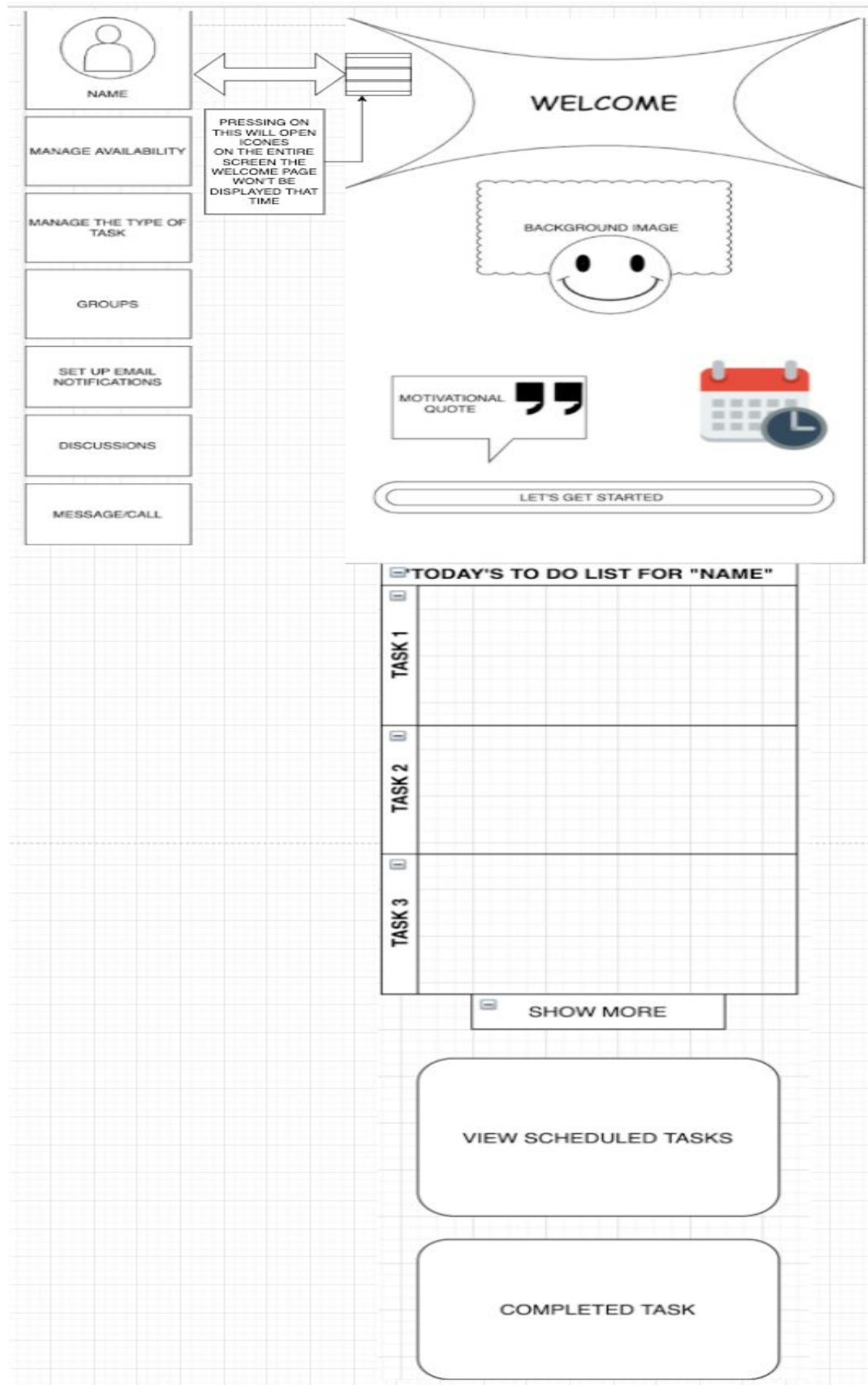
design.



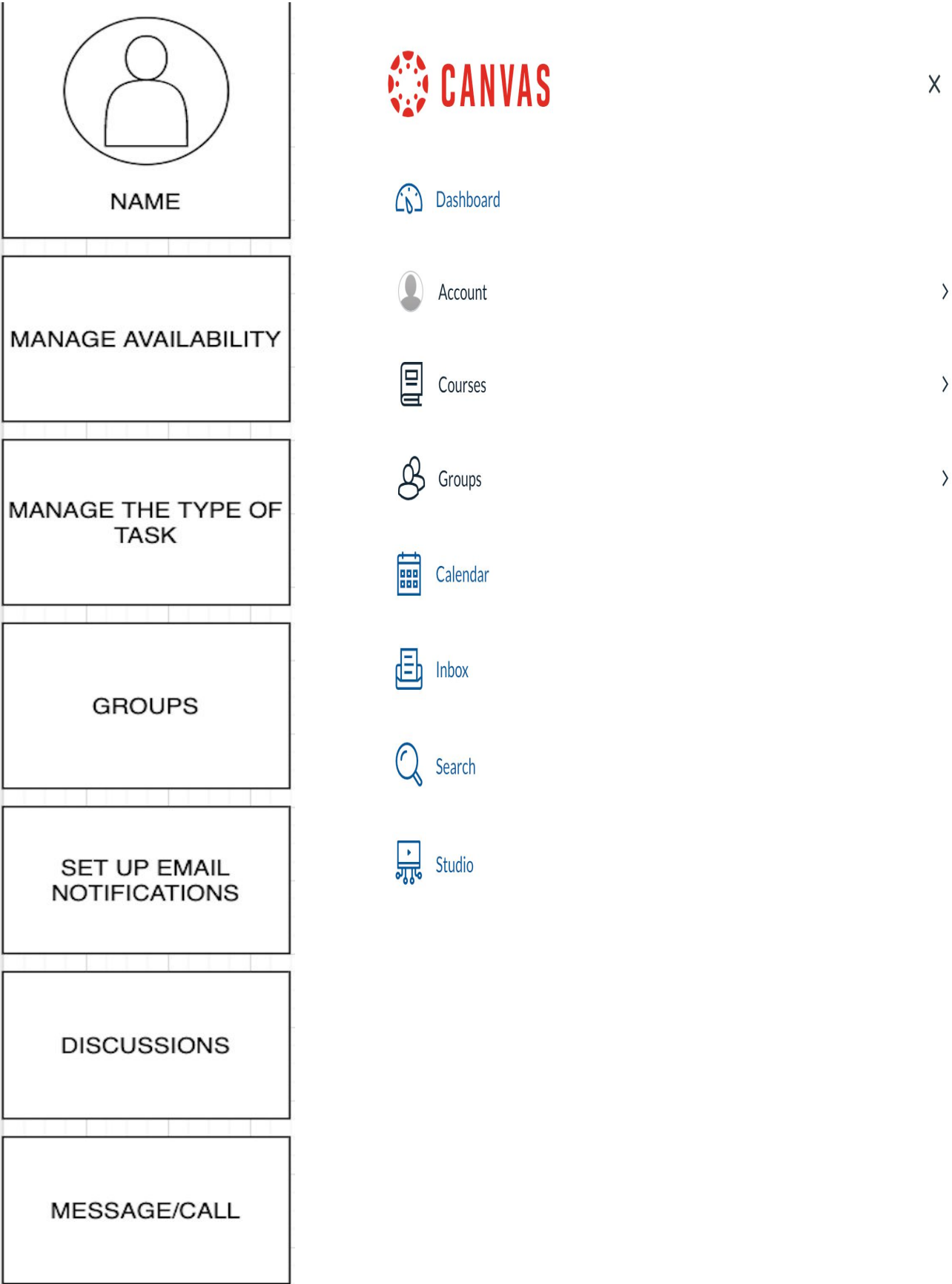
#### To-do

 <a href="#">Module 7 available now</a>	X
Entrepreneurship Foundations and Mindset 30 Apr at 14:52	
 <a href="#">Week 7 -Workshop 4</a>	X
Software Engineering Wkshop I (2205_2205UAC Combined) 30 Apr at 20:01	
 <a href="#">Online networking task - Deadline extended</a>	X
Entrepreneurship Foundations and Mindset A Monday 12.7.21	

Pressing on the button( the three lines) will open icons on the entire screen as it does in myuni.



We can see how it opens the icons in the entire screen in both my design and in myuni.



## FEATURE PLAN

As emphasised within the webpage review section, the developed site should allow users/managers to choose to link a social media/email/other account, allowing login via that platform, to make logging in easier. According to the conclusions established by the view section, the main page should primarily provide login and signup capabilities. Therefore, my main page is the login page which then takes the user to the signup page, if they don't already have an account.

Then further, according to the requirements upon loading the system should display current tasks that need to be done today and the user who is assigned that task. Therefore, I have a profile page that will display a to do list which will display tasks to do for person currently logged in along with their name.

Further, the user should be able to view their scheduled tasks, manage their profile/user information, manage their availability, manage the types of tasks they can/want to do and the manager should manage their profile/manager information as well and create and manage different task also ,assign tasks or groups of tasks to users.

It should also have a special feature which allows them to be able to choose when email notifications are sent.

And I have created site designs to describe what each icon does.

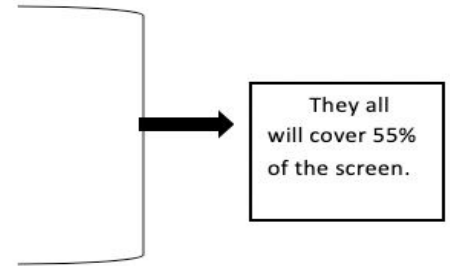
### 1. Main Page (login page)

- Small logo (top) (will cover 20% of the screen)
- Username and password type in option (centre) (will cover 30% of the screen)
- Login button (centre) (will cover 15% of the screen)
- Sign up button (below login option) (will cover 20% of the screen)
- Background image

§ Support login and sign up with email.

## 2. Sign up page

- Small logo (top) (will cover 20% of the screen)
- First name and surname type in option (centre)
- Email address type in option (centre)
- New password type in option (centre)
- Date of birth type in option (centre)
- Gender type in option (centre)
- Create account button(centre)
- Background Image



§ It allows the user to use their email address to create the account.

§ It sends an email to the user as soon as they press the create account button as well as the auto generated username. User will press yes and it will take them to the profile page.

## 3. Profile page

[Dimensions and coverage already in the site design]

- Welcome page(centre)
- Background image(centre)
- Motivational quote (centre)
- Calendar and clock (centre)
- Text (displays let's get started)
- To do list with a scroll bar and show more button(right)
- View scheduled tasks button (right)
- View completed task button(right)
- Profile picture and name button (left)
- Manage availability button(left)
- Manage the type of task (left)
- Groups button(left)
- Set up email notifications button(left)
- Discussions button(left)
- Message/call button(left)

## 4. Icon Features(left)

- Profile picture button

§ When clicked, it will show the name, born, email of the user.

- o Edit profile button

§ When clicked will allow the user to change name, born, email and password.

- o Save button
- o Logout button

· Manage Availability button

§ When clicked, it will allow the user to select a time from the given availability options provided.

- Save button

· Manage type of task button

§ When clicked, it will allow the user to select the type of task from the given options provided.

- Save button

· Groups button

- When clicked, it will show 3 options: assign groups and list of unassigned tasks(can only be accessed by the managers after they put their login information) and list of tasks in progress can be seen by everybody, it will display all the tasks in progress.

§ Upon clicking on assign groups and putting the login information, it will allow the managers to select people and put them in groups to assign tasks to them.

§ List of unassigned tasks lets the manager see the list all of all the tasks that are still to be assigned.

· Set up email notifications button

§ Upon clicking on the set up email notifications button the user can select a time to receive notifications for the tasks from the given options.

- Save button

· Discussion button

§ Upon clicking the discussion button everybody can start a discussion on a particular topic to discuss the tasks.

- Post button.

· Message/call button

§ Upon clicking the message/call button the user can message or call anybody (the contacts and ids of the users using the website will be

displayed like small icons as shown in the site design by pressing on them they can send messages and make calls.

#### 5.Icon Features(right)

- View Scheduled tasks button
  - § After clicking on it the user can see all the tasks they are supposed to do (even the future tasks) and they have a completed button next to it.
    - o Completed button
  - § On pressing completed button, the task will be displayed in the list of completed tasks.
- List of completed tasks button
  - § On pressing it, all the finished tasks will be displayed.

## DESIGN REVIEW

### How does it minimise kinematic and cognitive load?

Kinematic load can be reduced through the elimination of unnecessary user hand motion. For example, all the icons on the left side are similar to tasks to do list and mark the tasks when completed hence the user doesn't have to move their hands for the tasks related things they are all present on the left side. Similarly all the settings and interaction icons are present at the left side for example to edit profile or assign group tasks or start a discussion the manager or the user does not have to move the mouse on the entire screen as they are all present close together on the left side of the screen. Moreover, by ensuring that input buttons are sufficiently sizable in accordance with Fitts Law, the degree of essential mouse or finger tracking is diminished. Kinematic load is further decreased through reductions in distances between consecutive interactive elements.

Conversely, cognitive load can be minimized through reductions in mental involvement throughout website use. In the site design, this was primarily accomplished through thorough considerations of design and layout based on research findings. As I have designed the login and sign up page like Instagram and Facebook. I am being very predictable for the users assuming most of them have used Facebook and Instagram hence they will be very familiar



with the concept of logging/signing in therefore it won't involve a lot of mental work to create an account and sign in.

One of the primary methods of cognitive load minimization involved the emphasis of important information. Which I did by highlighting interaction features through distinct buttons and naming them, users are easily able to locate input fields. Also, by maintaining a consistent page layout and color theme, users will not have to examine and deconstruct the site functionality when navigating the site.

### **Does it meet standards and heuristics?**

To meet the standards and heuristics means to alleviate the usage difficulties associated with several disabilities, including visual, auditory, physical, speech, cognitive, learning, and neurological impairments. While not all of the guidelines apply to the website, it will still approve most of them as the site content and functionality is planned.

**OPERABLE:** The site will be keyboard accessible which means it will be operable and operable websites should be usable for individuals who may have limited input and reaction capabilities.

**UNDERSTANDABLE:** Page language will be such that it can be readily determined and will be understandable. Changes in content due to interactions will be predictable.

**ROBUST:** The username will be auto generated and sent via email to the users which will make sure the IDs are unique and also the website will be operated after it has been validated.

**HELP:** The website will be such that it will help users recognize, diagnose and recover from errors.

**CONSISTENCY AND STANDARDS:** Users will not have to wonder whether different words, situations, or actions mean the same thing.

## **Classmate review**

I got a detailed review from the basic sketch of the site design from classmates for review.

Below are the respective pages and functions that were reviewed using basic usability and testing. The changes made for each category are listed below in dot points.

### **1.MAIN PAGE**

“Clean and simple design ,the login page is easy to understand but the shape of username and password blocks are usually same in instagram and facebook but you have made the password block small which looks different and can confuse the user also, we don’t know the length of the password they will put so it should be big enough that you can set at least 10 alphabet allowance.”

#### **CHANGES:**

I made both blocks of the same dimensions.

### **2.SIGN UP PAGE**

“Sign up page looks good as well but how will you confirm the password entered by the user ,username block and create account button is missing.”

#### **CHANGES:**

I added a create account button and explained how on pressing it ,it will send an email to the user to verify the account and a username will be sent as well.

### 3.PROFILE PAGE

“As we have role and permission concepts in the requirements don’t we need to select any role and sign up page(for managers and users). And you have not shown how it will look after pressing show more in the to do list on the right side”

#### CHANGES:

Although both roles have the same profile, in groups icon there are features which can only be accessed by managers ,it will be like myuni website which has the same type of profile for students and lecturers but students can’t do certain things that lecturers can. And I added a scroll bar next to the to do list to show how it will work.

### 4.LEFT SIDE ICON DESCRIPTION PAGE

“Are they all going to be on the same page like that? Doesn’t that make it all complex and hard for the user to read? Also, how will you allow only managers to access assign groups and see the list of unassigned?”.

#### CHANGES:

They are all not going to open in one page like I showed in the site design , I have shown it like that so that it was easier for me to explain, in the original website we can open only one icon at a time just like we do in myuni and I have added another login for managers to assign groups and see the list of unassigned tasks.

# DATA PLAN

All requests will be sent in json form.

## 1. LOGIN

CLIENT	USERNAME OR EMAIL, PASSWORD
SERVER	TRUE, FALSE

## 2. SIGN UP

CLIENT	FIRST NAME, LAST NAME, EMAIL ,PASSWORD,GENDER,DATE OF BIRTH
SERVER	SUCCESS MESSAGE, ERROR MESSAGE

## 3 .PROFILE

CLIENT	USERNAME
SERVER	TO DO LIST, SCHEDULED TASKS ,COMPLETED TASKS, USERNAME ,PROFILE PHOTO

## 4. UPDATE TASK STATUS

CLIENT	TASK ID, TASK STATUS
SERVER	SUCCESS, ERROR

## 5. DISCUSSIONS/MESSAGE/CALL

CLIENT	USERNAME, MESSAGES
SERVER	SUCCESS, ERROR

## ER DIAGRAM

