SENG2021

Deliverable 1:

Project Proposal

Fish & Chips

Mentor: Ali Darejeh

Ahmet Karatas

Daniel Ouyang

Humza Saeed

Jacky Xie

Martin Le

Contents

Problem Statement 3
Analysis of Current System 3
Degree Planning 3
Study Spaces 3
Forming of Study/Assignment Groups 3
Summary Statements 3
User Stories 5
Feature 1: Degree Planner 5
Feature 2: Course Review 6
Feature 3: Study Space Finder 7
Feature 4: Study Group / Assignment Group Finder 8
Feature 5: User Profile Page 10
Feature 6: Login Page 10
Low-Fidelity Prototype 11
High-Fidelity Prototype 15

Problem Statement

Analysis of Current System

The current systems that UNSW has in place in terms of planning their degree, as well as finding quiet spaces and finding other students to form study/assignment groups, is inadequate. This problem that has been faced by thousands students every year and no viable solution has been put in place to solve these issues.

Degree Planning

As current students at UNSW, planning out our degree and choosing the appropriate courses can be a difficult and stress-inducing task with the current state of the UNSW Handbook. The convoluted and poorly created design that is currently presented leads to a poor user experience and as a direct result of this, can become a daunting task for students, especially to new incoming students.

With university being a place where students are given the ability to undertake General Education courses which provides students the opportunity to undertake courses outside of their discipline, as well as Electives which delve deeper into their specialisation, the lack of a platform that allows students to interact with other students in regards to their opinions and experiences to courses is detrimental to the experience of students.

Another issue that the current UNSW handbook has is that there is a lack of automatic features for verification of subjects. For an example, students currently must manually filter through the long list of subjects to find subjects that fit their degree plan/timetable, instead of having a system that suggests a list of potential subjects that students can choose from. Another example is prerequisite checking. Most courses in UNSW depend on prerequisites such as completion of certain subjects or the completion of a certain number of UOC. Having a student manually verify whether they can choose a subject rather than a system that can quickly and automatically check your current student record and verify if a student is able to pick up that subject is puzzling.

Study Spaces

Allowing students to track and find study spaces is a missed opportunity with the current UNSW system. Even though the university has a wide ranges of schools and study places where students can go to any study, having the option to find and reserve your own study place provides students the peace of mind of not having to run all around campus trying to find a quiet study area.

Forming of Study/Assignment Groups

With group-work and collaboration between other students being a major component of university, not having a feature which allows students to find potential study groups or assignment groups which contain students that could potentially share mutual goals and interests, proves detrimental for a student's university experience. Especially with remote learning as a result of the COVID-19 pandemic, having students spread out all over the world with differing time zones, can make it hard for students to collaborate with each other.

Summary Statements

- Current UNSW Handbook is quite complicated for a first time user
- Students (mostly first-years) often end up confused and unsure of what courses to pick
- No method to track and plan your degree besides the basic schedule

- No review system in place which makes it hard for students to pick and choose subjects
- Some subjects have lots of prerequisite, making it hard to verify if a student can pick the subject
- There is no calendar which can remind students of upcoming assessments, exams and deadlines.
- There isn't any convenient and fast way to help students choose the appropriate courses when they do not know which one to choose
- It's hard for students to find study spaces without having to manually travel there
- No system for students to reserve study spaces
- For new students, there is very limited ways for them to find a study group with students who share similar hobbies to them
- When a student is doing a subject alone, it is sometimes hard for them to find others to form an assignment group with, especially during a time of remote learning

User Stories

Feature 1: Degree Planner

User	Student
Requirement	Students currently don't have a platform which allows them to plan their degree and courses
Feature	An interactive calendar where students can search up courses and then drag and drop them onto the calendar
Description	As a student, I want a platform where I can search up courses and then drag them onto an interactive calendar, so that I can effectively track and plan and my degree on a visual interface.
Flow	**Given** that I am on the degree planner calendar **Then** I can see my personal degree plan **When** I search up a course in the search bar **Then** I can click and drag that course onto my calendar

User	Student
Requirement	There is no automatic way to verify if a student has met the prerequisites to undertake a course
Feature	A verification system which checks the student's previously completed courses and checks if it meets the prerequisite requirements. If a student has passed the verification, the course box will be highlighted green, else red.
Description	As a student I want to be able to review courses that I have done, so that future students can have a better personal understanding of what to experience in the course
Flow	**Given** that I am on the degree planner calendar **Given** that I have already completed the course **When** I search up a course and have clicked on it **Then** I can press the "add a review" button **Then** I can write and submit my review

User	Student
Requirement	Students currently don't have a convenient and fast way to help choose the appropriate courses if they do not know which to choose
Feature	A course suggestion feature, in which when a student is unsure of what to choose, this feature will suggest courses for that particular term

Description	As a student, I want to be able to see suggestions as to which courses are relevant to me, based on my degree, preferences and progress, So that I can choose my courses with ease.
Flow	**Given** that I am on the degree planner calendar **Given** that I have a spare subject slot on my timetable and unsure of what to pick **Then** I can press the help button and select the appropriate term **Then** a list of suggested courses will appear that fit into that slot

Feature 2: Course Review

User	Student
Requirement	There is no existing course review system for students to review a course
Feature	A course review system where students are able to review and provide a star rating on a course.
Description	As a student I want to be able to review courses that I have done, so that future students can have a better personal understanding of what to experience in the course
Flow	**Given** that I have already completed the course **When** I search up a course and have clicked on it **Then** I can press the “add a review” button **Then** I can write and submit my review

User	Student
Requirement	There is no existing course review system for students to read course reviews
Feature	A system where a student can search up a subject and once pressed can read the reviews made by other students on that particular course
Description	As a student I want to be able to read course reviews courses made by other students so that I can make an informed decision on whether or not to pick a subject and to also gain a true student’s perspective on a subject.
Flow	**Given** that I have searched up a course on the search bar **When** I have hovered over a searched subject **Then** the star rating of the subject will appear **When** I have clicked on a subject **Then** a new tab will open showing all the reviews made for the subject

User	Staff

Requirement	There is no way to check a student's opinion on a subject besides the myExperience survey at the end of term
Feature	A dashboard which collates all the course reviews that are relevant to the admin/staff user and creates infographics to visually depict the student sentiment
Description	As the admin/staff, I want a platform where I can readily view the reviews for my courses, so that I can make improvements and decisions to improve student satisfaction.
Flow	**Given** that I am not a student **When** I login **Then** I can see a dashboard with reviews of courses that are relevant to me

Feature 3: Study Space Finder

User	Student
Requirement	There is no way to find empty study spaces besides having to manually travel to the study space
Feature	A map where students can search up a location and pinpoints will display on the map with empty/near-empty study spaces
Description	As a student, I want to be able to find a quiet study space, so that I can study effectively and in an environment where I'm not heavily distracted
Flow	**Given** that I am under the Study Space Finder Tab **When** I search for study spaces near my location **Then** I can see a visual pinpoints on the map that shows places with empty study spaces

User	Student
Requirement	There is no way to reserve study spaces besides the Main Library
Feature	When a student presses on the pinpoint, a pop-up will appear which allows them to reserve a study space for a certain period of time
Description	As a student, I want to be able to find and reserve a quiet study space, so that I can show up to the study space and know that there is no one sitting at my reserved spot

Flow	**Given** that I am under the Study Space Finder Tab **When** I search for study spaces near my location **Then** I can see a visual pinpoints on the map that shows places with empty study spaces **Then** I can press on the pinpoint and a menu will appear asking for the reservation time **When** I have entered the reservation time and pressed enter **Then** the study space is booked

User	Student
Requirement	There is no way to find a timetable for study spaces, which shows what time that space will be free
Feature	A timetable that shows when that study space will be free
Description	As a student, I want to be able to find when a study space will be free, so that I can effectively plan out when I can study
Flow	**Given** that I am under the Study Space Finder Tab **When** I search for study spaces near my location **Then** I can see a visual pinpoints on the map that shows places with empty study spaces **When** I press on one of the pinpoints **Then** I can see if it's free or not **When** it's not free I can press the "Check timetable" button **Then** I can check for all of the available times for that space **Then** I can choose to reserve one of the available times

Feature 4: Study Group / Assignment Group Finder

User	Student
Requirement	Currently there is no effective way for students to create study groups or find assignment groups
Feature	A feature in which students can find other students who are looking to form a study group or assignment groups and add each other.
Description	As a student I want a platform where I can find other students to form a study group or an assignment group with, so that I can make friends with others as well as be in a group with people who share the same goals and hobbies as me.
Flow	**Given** that I am under the "Find a Group" tab **When** I search for a subject

	Then I can see a list of open groups or other students who are looking for students to form a group **Then** I can choose to message the group or student in order to join or make a group

User	Student
Requirement	Students currently don't have a platform to manage their study or assignment groups
Feature	A group manager where a student can choose to add or remove other students
Description	As a student, I want a platform where I can manage my study or assignment groups, so that I can effectively add/remove members of the group
Flow	**Given** that I'm the admin of the study/assignment group **When** I press the settings button **Then** I can see all the current members of the group as well as the students who want to join the group **When** I press on a student's profile **Then** I have the option of adding them (if not in group) or removing them (if not in group or in group)

User	Student
Requirement	Students currently don't have a platform to form their own study/assignment groups
Feature	A feature which allows students to create their own assignment/study group and allows them to invite and add other students
Description	As a student, I want a platform where I can create my own study/assignment group so that I can find other students who share similar interests and goals as me in order to achieve to better results
Flow	**Given** that I am under the "Find a Group" tab **When** I press the "Create a group" button **Then** I am able to create and customise the group **Then** I am also able to add and find other students as well as change the group's visibility settings

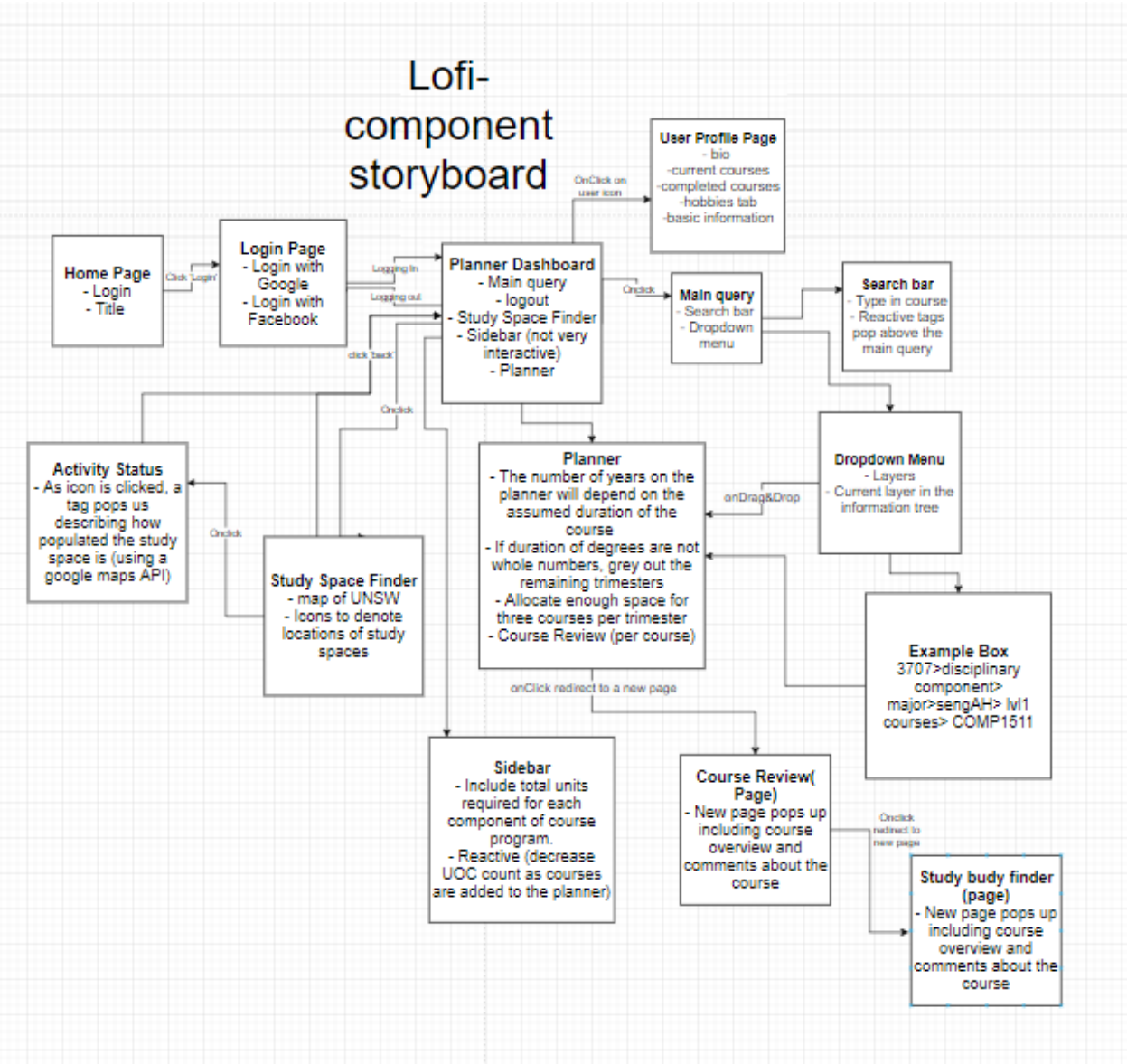
Feature 5: User Profile Page

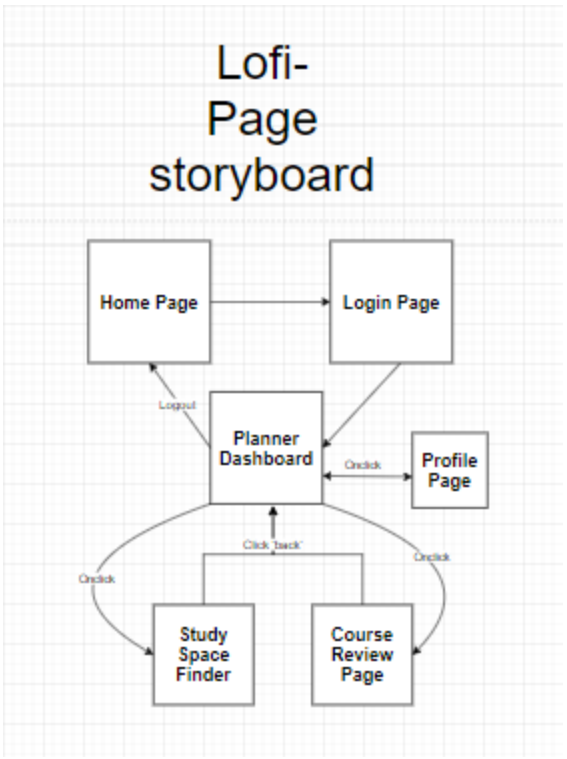
User	Student
Requirement	Students currently don't have a platform which allows them to display their degree plan, courses currently or have completed and any hobbies.
Feature	A profile page which allows a student to display and express themselves academically
Description	As a student, I want a profile page which allows me to customise it however want, so that I can display my current academic progress such as my degree plan and courses currently or have completed
Flow	**Given** that I am registered on the Web-App **When** I press on the profile tab **Then** my profile is displayed which displays my degree plan and other features **Then** I can customise my profile page by pressing the settings button

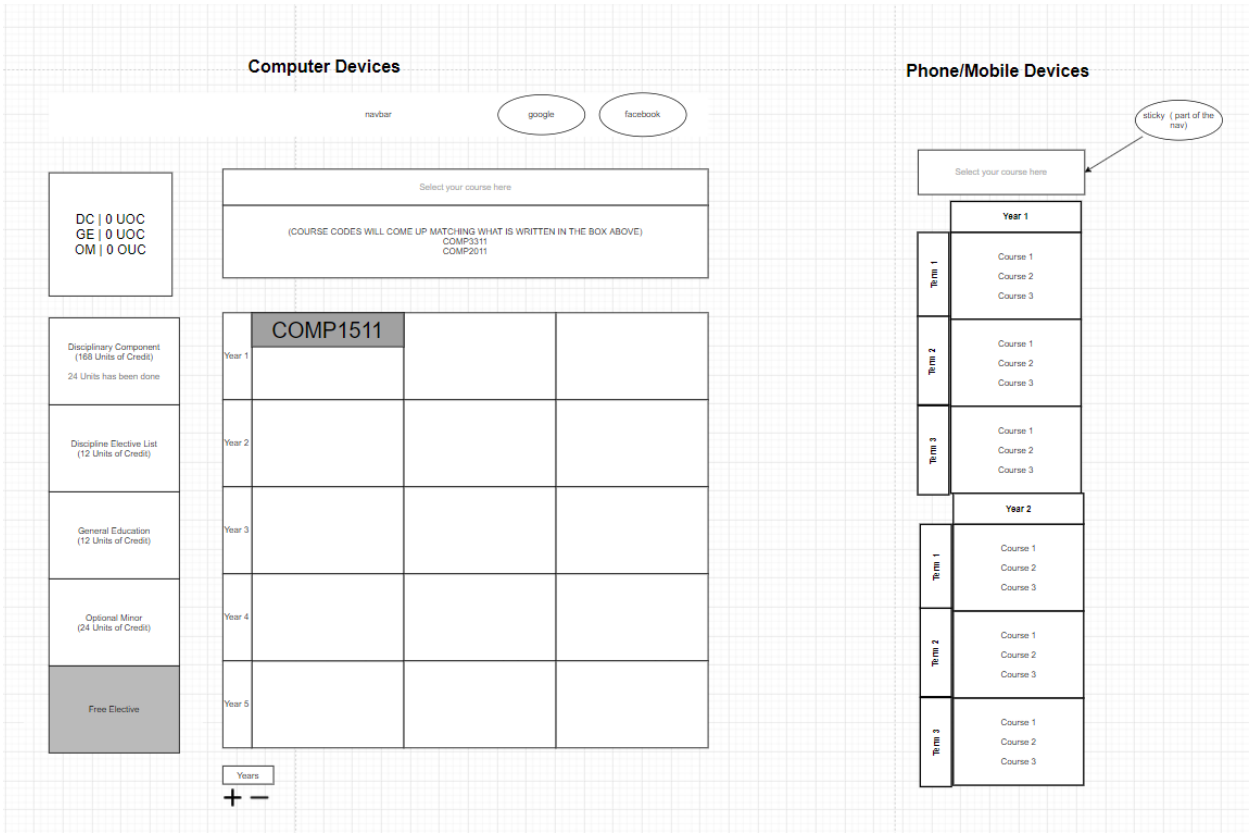
Feature 6: Login Page

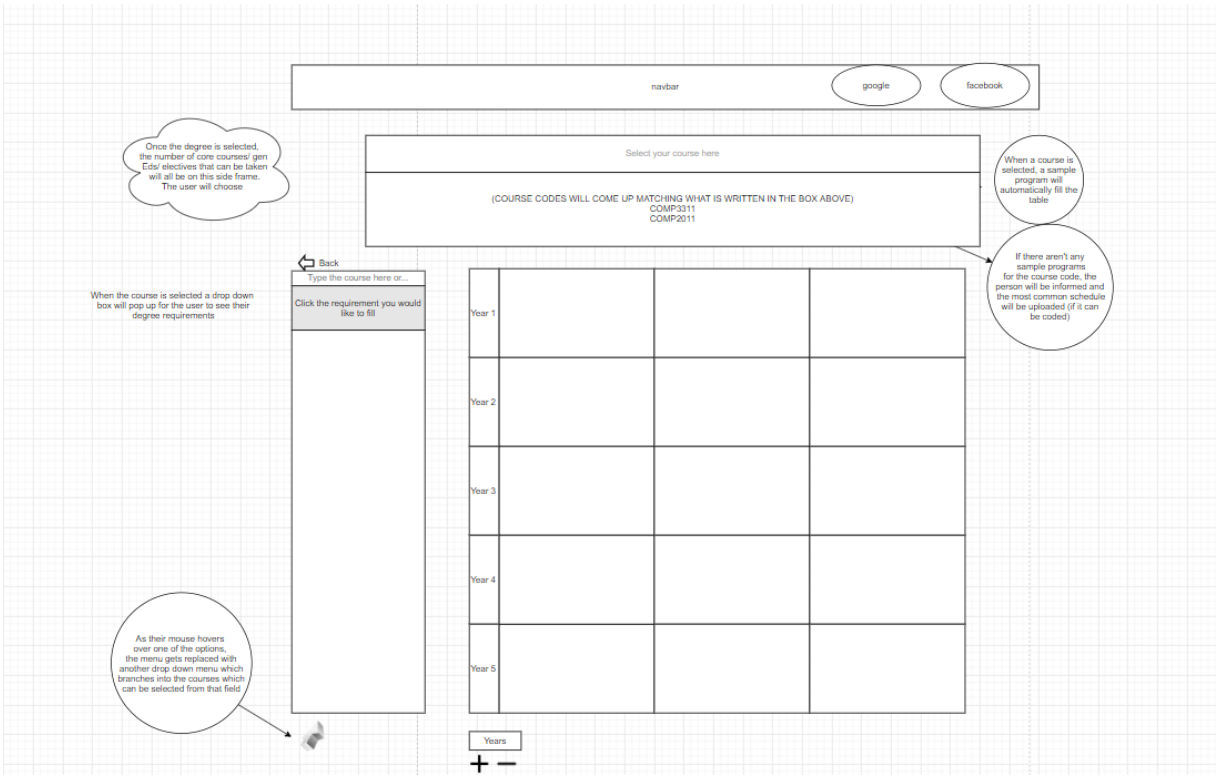
User	Student
Requirement	Students currently don't have a platform where they are able to create an account with social media accounts to experience academic content
Feature	A login page which allows a student to login using their social media accounts to access the features
Description	As a student, I want to be able to login to an account using my social media accounts, so that I can use a pre-existing account that I'm familiar with to experience the features of the web application
Flow	**Given** that I am on the home landing page **When** I press on "Login" **Then** I'm given prompts to either login with a Facebook account or a Google account **When** I press either button and enter the appropriate details **Then** I will be redirected to the degree planner dashboard

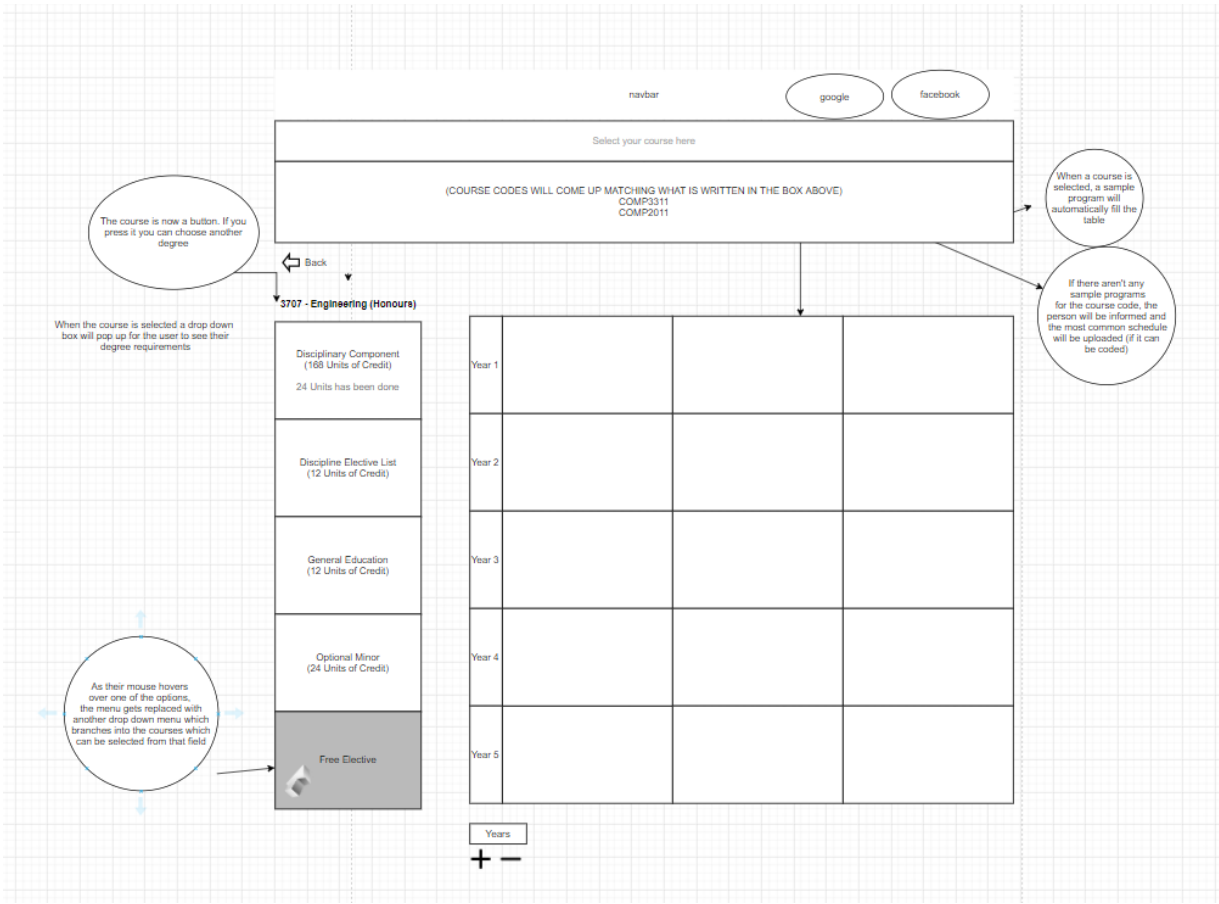
Low-Fidelity Prototype

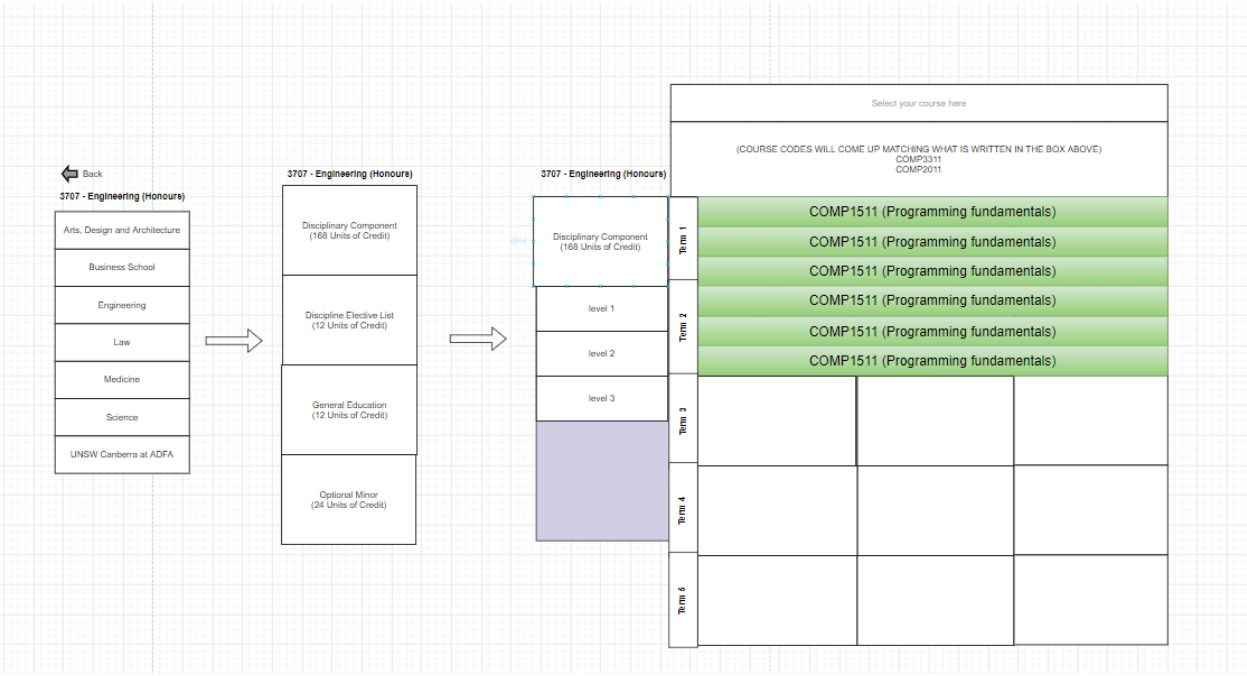



Lofi-
Page
storyboard
Home Page
Login Page
Logout
Planner Dashboard
Onclick
Profile Page
Click 'back'
Onclick
Onclick
Study Space Finder
Course Review Page


Computer Devices
navbar
google
facebook
DC | 0 UOC
GE | 0 UOC
OM | 0 OUC
Select your course here
(COURSE CODES WILL COME UP MATCHING WHAT IS WRITTEN IN THE BOX ABOVE)
COMP3311
COMP2011
Disciplinary Component (168 Units of Credit)
24 Units has been done
Discipline Elective List (12 Units of Credit)
General Education (12 Units of Credit)
Optional Minor (24 Units of Credit)
Free Elective
COMP1511
Year 1
Year 2
Year 3
Year 4
Year 5
Years
+ −
Phone/Mobile Devices
sticky (part of the nav)
Select your course here
Year 1
Term 1
Course 1
Course 2
Course 3
Term 2
Course 1
Course 2
Course 3
Term 3
Course 1
Course 2
Course 3
Year 2
Term 1
Course 1
Course 2
Course 3
Term 2
Course 1
Course 2
Course 3
Term 3
Course 1
Course 2
Course 3


navbar
google
facebook
Once the degree is selected, the number of core courses/ gen Eds/ electives that can be taken will all be on this side frame. The user will choose
Select your course here
(COURSE CODES WILL COME UP MATCHING WHAT IS WRITTEN IN THE BOX ABOVE)
COMP3311
COMP2011
When a course is selected, a sample program will automatically fill the table
If there aren't any sample programs for the course code, the person will be informed and the most common schedule will be uploaded (if it can be coded)
Back
Type the course here or...
Click the requirement you would like to fill
When the course is selected a drop down box will pop up for the user to see their degree requirements
Year 1
Year 2
Year 3
Year 4
Year 5
As their mouse hovers over one of the options, the menu gets replaced with another drop down menu which branches into the courses which can be selected from that field
Years
+ −

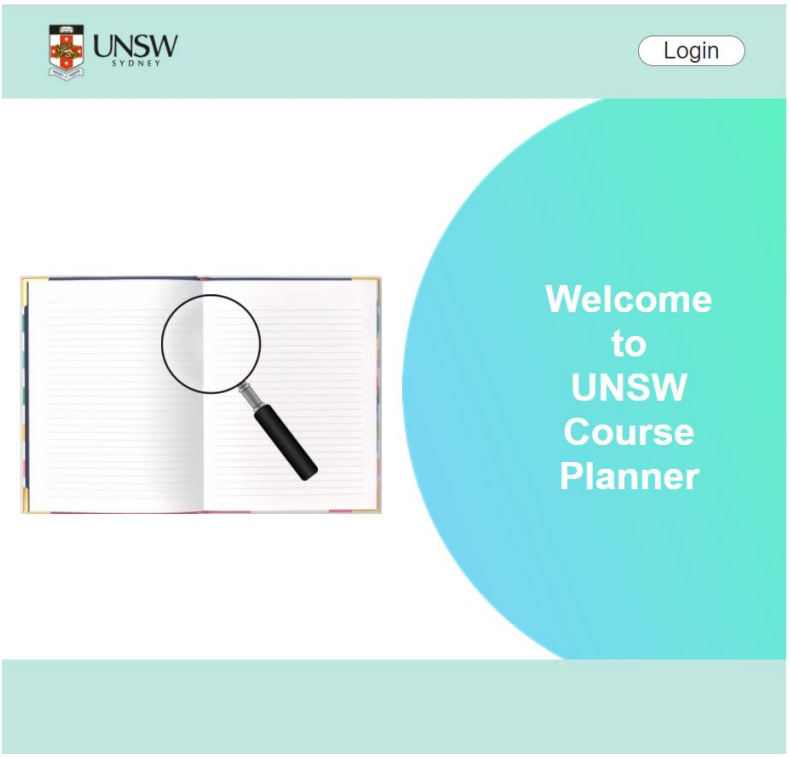

navbar
google
facebook
Select your course here
(COURSE CODES WILL COME UP MATCHING WHAT IS WRITTEN IN THE BOX ABOVE)
COMP3311
COMP2011
When a course is selected, a sample program will automatically fill the table
If there aren't any sample programs for the course code, the person will be informed and the most common schedule will be uploaded (if it can be coded)
The course is now a button. If you press it you can choose another degree
Back
3707 - Engineering (Honours)
When the course is selected a drop down box will pop up for the user to see their degree requirements
Disciplinary Component (168 Units of Credit)
24 Units has been done
Discipline Elective List (12 Units of Credit)
General Education (12 Units of Credit)
Optional Minor (24 Units of Credit)
Free Elective
As their mouse hovers over one of the options, the menu gets replaced with another drop down menu which branches into the courses which can be selected from that field
Year 1
Year 2
Year 3
Year 4
Year 5
Years
+ −

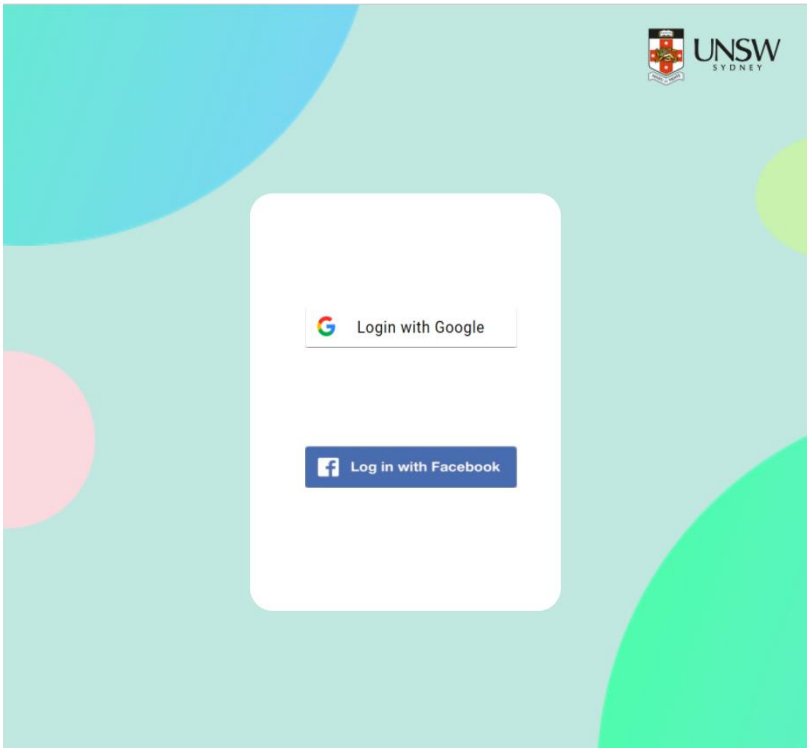


Reflection on Low Fidelity

Some of the design choices made in the low fidelity model did not transfer directly into the high-fidelity model, as we made some minor User Interface design improvements while making improvements on our product. That being said, all the design choices implemented in our final model is directly influenced from the low-fidelity model and the overall design concepts remains consistent.

High-Fidelity Prototype





Units left

DC	0 UOC
GE	0 UOC
OM	0 UOC

enter your search

Year 1			
Year 2			
Year 3			
Year 4			

Years

Units left

DC	0 UOC
GE	0 UOC
OM	0 UOC

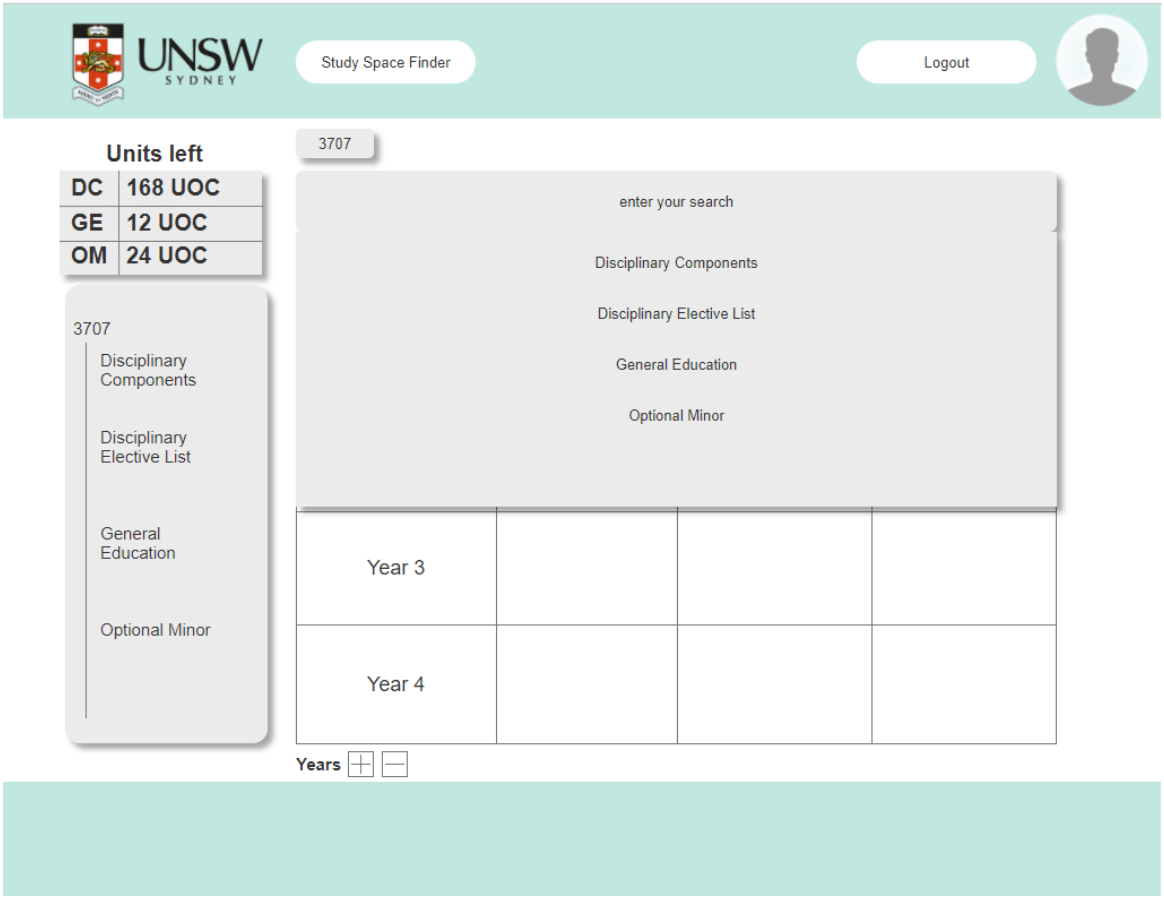
3707

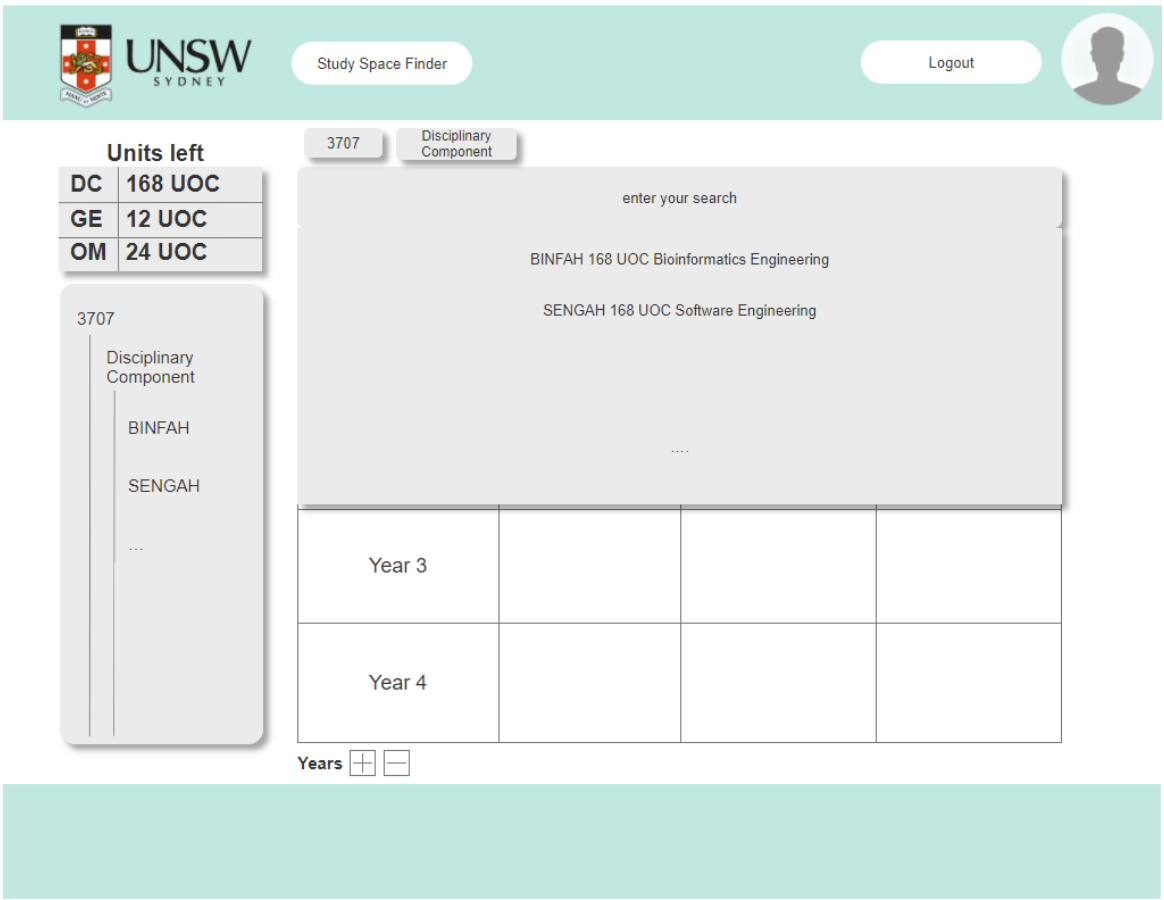
3707 Engineering (Honours)

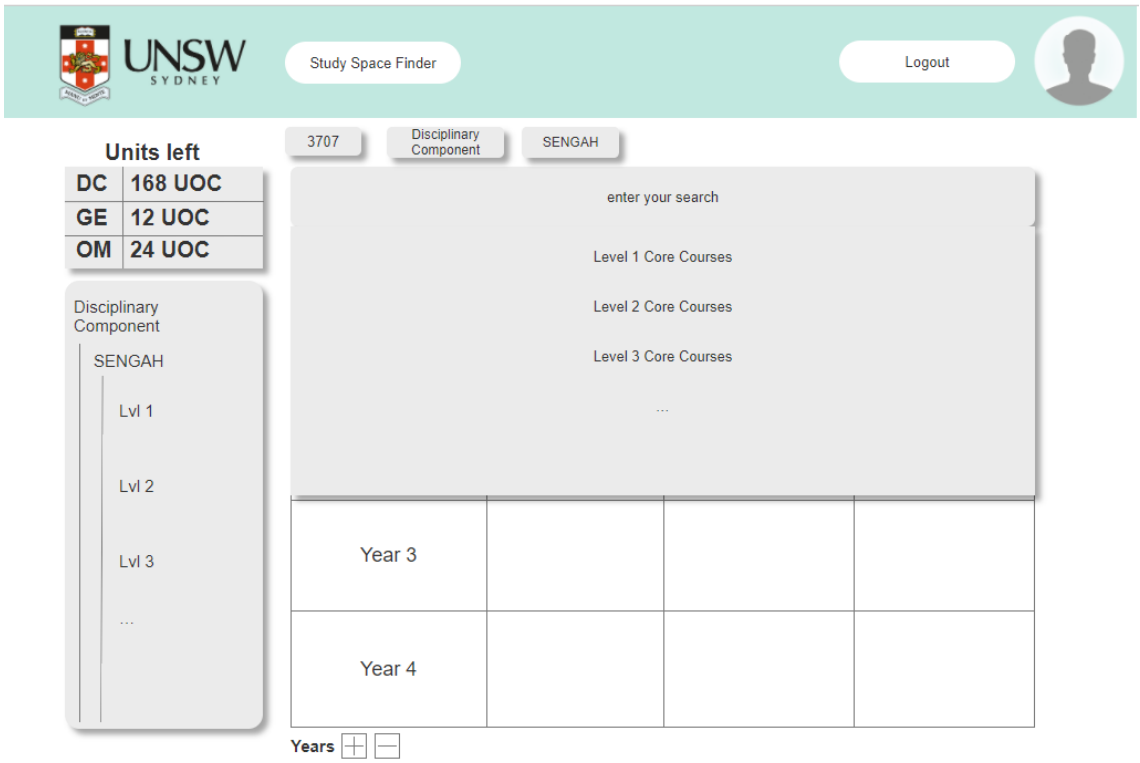
3767 Engineering (Honours) and Science

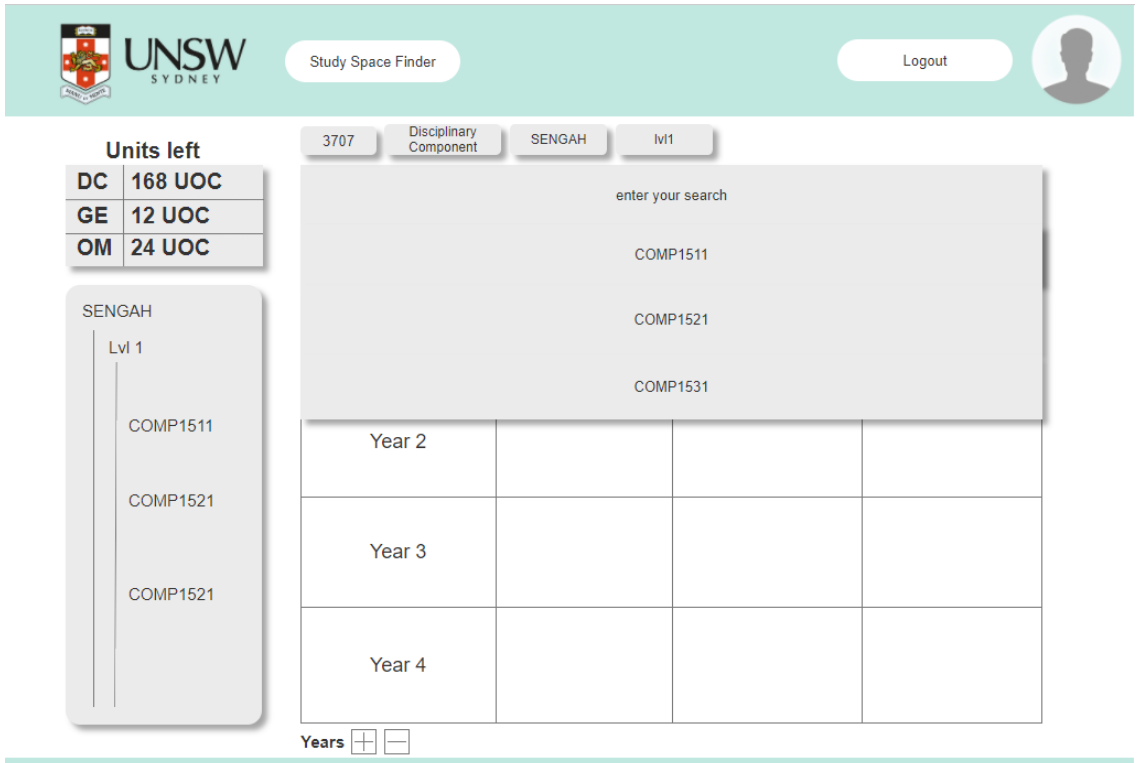
Year 3			
Year 4			

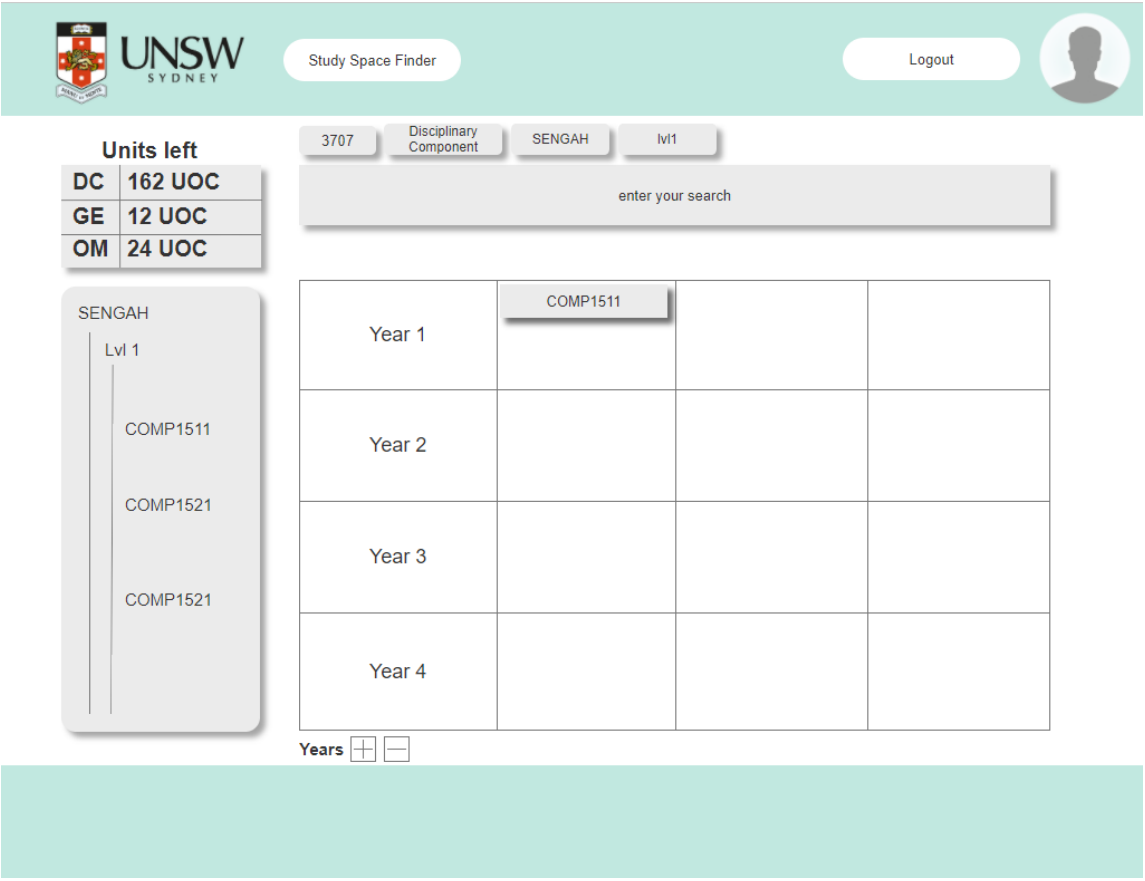
Years


UNSW SYDNEY
Study Space Finder
Logout
Units left
DC 168 UOC
GE 12 UOC
OM 24 UOC
3707
Disciplinary Components
Disciplinary Elective List
General Education
Optional Minor
3707
enter your search
Disciplinary Components
Disciplinary Elective List
General Education
Optional Minor
Year 3
Year 4
Years


UNSW SYDNEY
Study Space Finder
Logout
Units left
DC 168 UOC
GE 12 UOC
OM 24 UOC
3707
Disciplinary Component
BINFAH
SENGAH
...
3707
Disciplinary Component
enter your search
BINFAH 168 UOC Bioinformatics Engineering
SENGAH 168 UOC Software Engineering
....
Year 3
Year 4
Years


UNSW SYDNEY
Study Space Finder
Logout
Units left
DC 168 UOC
GE 12 UOC
OM 24 UOC
Disciplinary Component
SENGAH
Lvl 1
Lvl 2
Lvl 3
...
3707
Disciplinary Component
SENGAH
enter your search
Level 1 Core Courses
Level 2 Core Courses
Level 3 Core Courses
...
Year 3
Year 4
Years


UNSW SYDNEY
Study Space Finder
Logout
Units left
DC 168 UOC
GE 12 UOC
OM 24 UOC
SENGAH
Lvl 1
COMP1511
COMP1521
COMP1521
3707
Disciplinary Component
SENGAH
lvl1
enter your search
COMP1511
COMP1521
COMP1531
Year 2
Year 3
Year 4
Years



Programming Fundamentals

COMP1511 | 6 Units of Credit

Overview

...

Review

This course is so easy

U are just sweaty

Very fun course

Thank you :)

Home | Course Review

UNSW SYDNEY

Programming Fundamentals | COMP1511

Study Buddy Finder

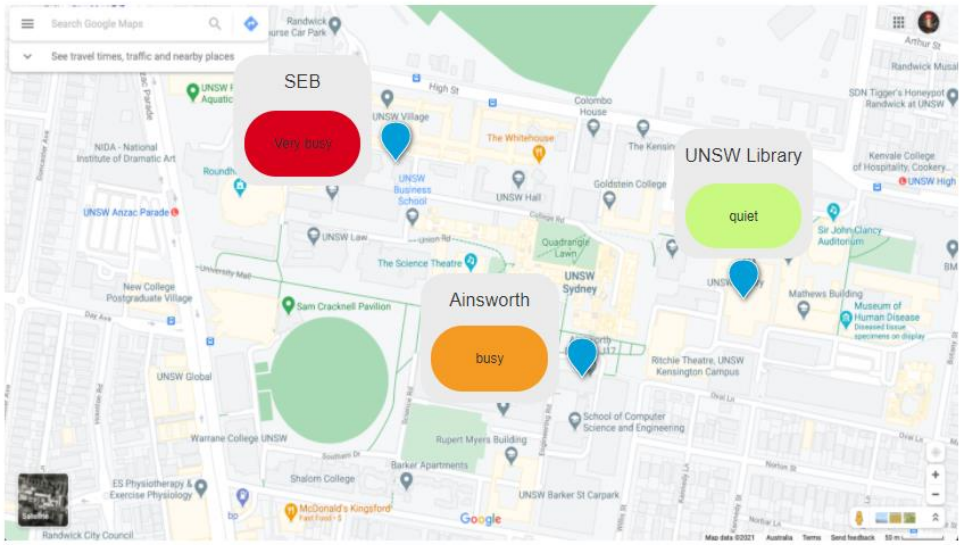
> **Creating a study group. I am at uni on wednesdays and fridays during the afternoons. My email is piccolohono@gmail.com.** *2 days ago*
>
> > **Very cool! I emailed you.** *1 day ago*
>
> **I am looking for a study buddy/group. Willing to go to uni anydays. My email is jackyisdabest@yahoo7.com.** *5 days ago*
>
> > **I sent an email on the time and place we usually meet up :).** *3 days ago*

...

Home

UNSW SYDNEY

Study Space Finder



Home

UNSW SYDNEY

John Johnson

Gender
Male

Year
Second Year

Degree
3707 - Engineering (Honours)

Email
jjohnson123@outlook.com

Bio

Current Courses

Completed Courses

Hobbies