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Home

SWEN90014 Masters Software Engineering Project Semester 2, 2020

Team Echidna

Client: Milton Nomikoudis

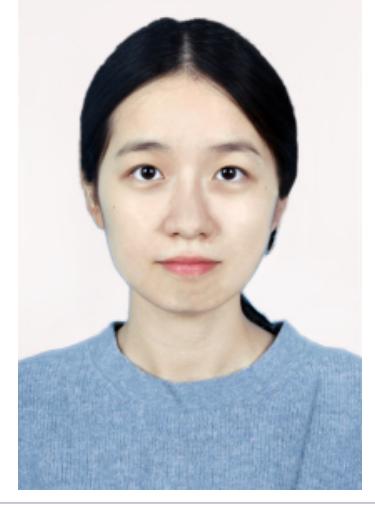
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Gaoli YI

[Use case Diagram](#) updated 26 Oct, 2020 • [view change](#)

[Sprint3 Testing](#) updated 26 Oct, 2020 • [view change](#)

Project Overview

Building a Layered Map of Partnership Activity

The University of Melbourne has a place-based approach to community partnerships, focused on 3 regions – Carlton and Melbourne, Shepparton and the Goulburn Valley, and North East Arnhem Land. The Civic and Community Engagement team manages the partnerships in these regions which span across multiple sectors and areas of the University. These partnerships involve events, activities and engagements that are directly managed by the Civic and Community Engagement team, as well as events, activities, research, teaching and learning managed by other parts of the university including faculties, schools and departments.

Goals: Some of our community-University partnerships and projects (including inter faculty projects) are difficult to map and difficult to track. So how about we create an interactive map of potential project activities and their interconnections that also serves as a repository of information?

Client: Milton Nomikoudis

Project Requirements

The requirement analysis is done by two teams in SEM 1, 2020:

Team Wombat: [Building a Layered Map of Partnership Activity_Wombat](#)

Team Koala: [Home_Koala](#)

Resolved Requirements

link: [Resolved Requirements](#)

Updated Requirements 1

Projects are now **Objectives**, and Activities are now **Actions**.

An **Objective** involves a number of **Actions**.

An **Action** involves a number of **Tasks**.

An example of how this might work:

Objective 2: Co-develop and establish further study pathways for Munarra Academy graduates and other prospective students, including to UoM higher education courses

Action 2.4: Establish integrated study pathways with regional education providers

Task 1: Form a regional working group

Task 2: Produce a regional Employment and Career Pathways Plan

Some sample data given by the client:



Updated Requirements 2

Here are words and terms that can be added as tags (I've grouped them according to common themes):

- **Education** model, Education approach
- **Pathways**, Study pathways, Career pathways
- Jobs, **Employment**
- **Indigenous knowledge**, community knowledge, Yorta Yorta knowledge, Yorta Yorta language
- Indigenous rights, **Indigenous sovereignty**, Indigenous data
- Teaching, Learning, Teaching and learning, **Cultural learning**, **Teaching practice**, blended learning, online learning, fee-for-service
- **Students**, Secondary students, TAFE students, Higher education students, ASHE students, Munarra Academy students
- **Higher education**, **TAFE education**, **Secondary education**, Multidisciplinary education, Community education, **Extended program**
- **Curriculum**, Co-curriculum, Extracurricular
- **Engagement**, Student Engagement, Community Engagement, University engagement, Partner engagement
- Research
- **Munarra partner**, **Education provider**, UoM, ASHE, Munarra Academy, Munarra Centre for Regional Excellence, Rumbalara Football Netball Club, Kaiela Institute, Murrup Barak, Yothu Yindi Foundation, Greater Shepparton Secondary College, GOTAFE, La Trobe University
- Shepparton, Goulburn Valley, Parkville, City of Melbourne, North East Arnhem Land
- **Event**, Forum, Conference, Workshop, Seminar, Meeting
- DIGS, Rural Health, Equine, Medical, Wellbeing, Science, Performing Arts, Design, Arts, Law, Agriculture, Veterinary, Engineering, Business, Economics, Education, Fine Arts, Music, Health

Attached is a document containing updated Objectives and Actions (so this is the final approved wording).



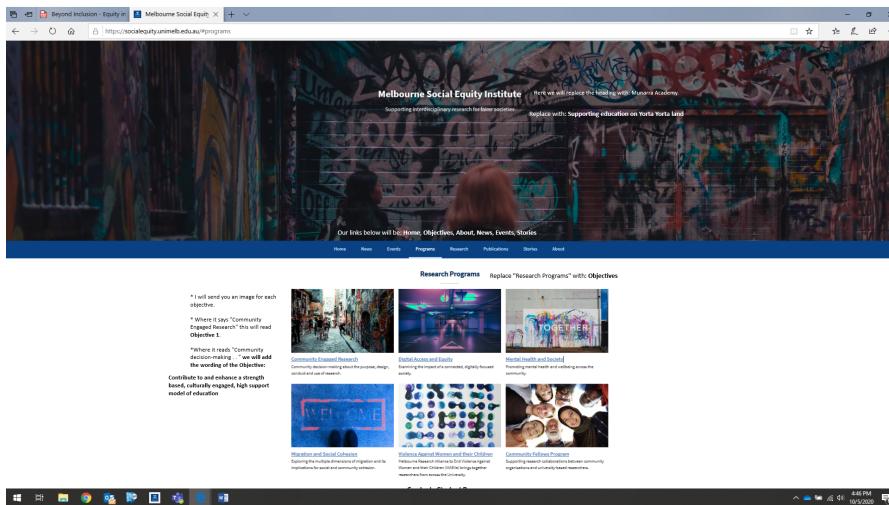
Updated Requirements 3

Please find attached

- (i) a screenshot of the University's Social Equity Institute webpage, which we can use as a model for our website, with my text for changes written in
- (ii) a further document explaining each level of the website and
- (iii) images to use for each Objective (in the format of the Social Equity Institute webpage).

Also, in regard to the term "artefacts" I think we should replace it with the term (and link in the Task section) "archive" – the purpose of the archive would be as a repository for documents, images, media and objects related to the work in a particular task.

(i)



(ii)



Map of Website ...b Pages V1.docx

(iii)





Client response



Sem 2 - Question...se - Milton.docx

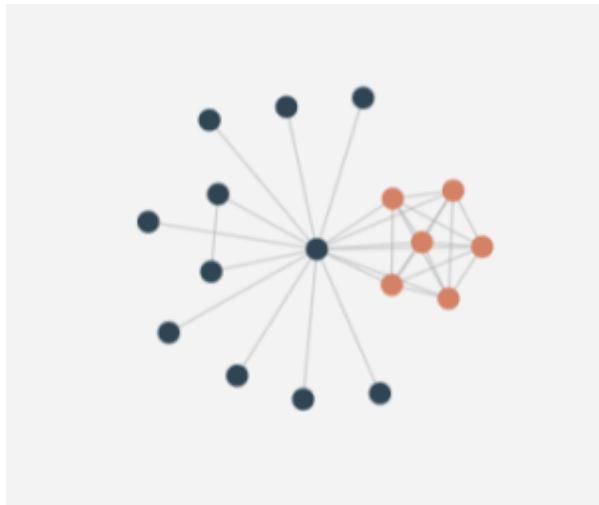
Reuse Plan

Reuse plan v1

1. Layered Map visualisation - ECharts

Apache ECharts (incubating)TM is an open-sourced JavaScript visualization tool, which can run fluently on PC and mobile devices. It is compatible with most modern Web Browsers, e.g., IE8/9/10/11, Chrome, Firefox, Safari and so on. ECharts depends on [ZRender](#), a graphic rendering engine, to create intuitive, interactive, and highly-customizable charts.

ECharts can be used to display the layered map of projects.



Official website: <https://echarts.apache.org/en/index.html>

2. SweetAlert2

SweetAlert2 is a nice, responsive, customizable, and accessible javascript pop-over api. It can be implemented without any dependencies.

Official website: <https://github.com/sweetalert2/sweetalert2>

Reuse plan v2

Update information

The EChat.js will not be used due to the change of the requirement where the map view of elements is unnecessary for this project.

1. SweetAlert2

Sweetalert2 is a nice, responsive, customizable, and accessible javascript pop-over api. It can be implemented without any dependencies.

Official website: <https://github.com/sweetalert2/sweetalert2>

2. Golf Pro — Sports Website Template

Golf Pro is a website template in W3Layouts. It can be used for developing the home page. As a complete package of a website template made up of HTML and CSS pages. This template makes the dev team creates the home page in the most optimized way that makes to load pages faster.

This template is originally meant for sports and fitness related businesses, sprinkles of red over a dark layout gives a corporate and professional feel, increasing its flexibility in terms of application to different industries. In our project, we may change the color theme as well as some fonts to adapt it into a University of Melbourne style.

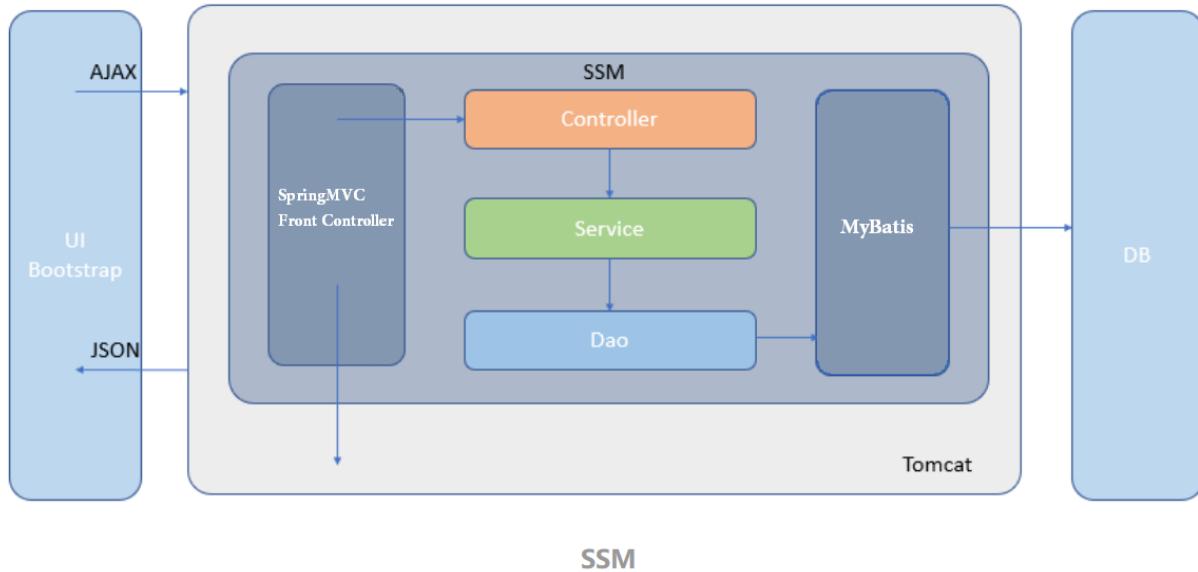
It can be used free of charge as long as we keep a link on the home page.

Official website: <https://w3layouts.com/golf-pro-website-template/>

Executable Architecture

In Executable Architecture, how architecturally significant requirements are met(shown by integration tests) will be covered. Sub system and interfaces used will also be introduced.

Architecture



SSM

Front-end: Bootstrap

Back-end: SSM (Spring + SpringMVC + MyBatis)

Database: mysql

High-level Subsystems

Login system

We plan to use UOM login system as our login system. And via this sub system, a user can login using UOM account and thus it effectively restricts the authority of generic public. However, Considering this plan needs access to UOM API, we should have another plan of login system in case that the access is not permitted.

The second plan is to use an ordinary login system, where a user needs to register and then uses the account registered to login in. A user may register with username as well as email, and then type in more account details and set passwords.

User profile system

After users successfully log in to the system, they can manage their own information. Through this system, the information of this module includes the user's login name, email address, telephone number. Users can also view their own roles and related projects.

project management system

The project management system will be displayed in the main interface of the system, where users can see their related projects. Different levels of users will have different levels of operation permissions on the project. The specific operations include adding new projects, deleting projects and changing project information. Users can search items in the top search box through keywords.

Interfaces

Login system

Data:

- username: String
- password: String

username and password will be passed to the UserController, with the form of String. UserController will validate the password and decide whether to forward to the main page of the system (main.html).

Login Form

Username	testu
Password	•

User profile system

The information of a user:

- role: String
- institution: String
- email: String
- mobile: String
- bio: String

UserController will handle the interaction between the main project management system and the user profile system.

Role	<input type="text" value="Senior Executive"/>
Institution	<input type="text" value="The University of Melbourne"/>
Email	<input type="text" value="908j@ffd.edu.au"/>
Phone	<input type="text" value="1234566"/>
Bio	<input type="text" value="I ma dso so wa ka rela e sto!"/>

Bitbucket Repository

link: [SWEN900142020LM-ECHIDNA](#)

System and Integration Tests

For executable architecture in Sprint 1, the client can log in and modify his/her profile, such as name, phone number in the web page. The modified information will be updated to the database.

1.Login : input username and password to login

The system can check the username and password in the database

Login Form

Username	testu
Password	•

2.Modify personal information

The personal information the client modified can be updated to the database.

1) Click profile button to Profile page

2) Change phone number to 666666

3) Click Save button

4) Refresh the Profile page, the information has been updated.

Profile

Echidna

Role	<input type="text" value="Senior Executive"/>
Institution	<input type="text" value="The University of Melbourne"/>
Email	<input type="text" value="908j@ffd.edu.au"/>
Phone	<input type="text" value="1234562"/>
Bio	<input type="text" value="I ma dso so wa ka rela e sto!"/>

Echidna

Role	Senior Executive
Institution	The University of Melbourne
Email	908j@ffd.edu.au
Phone	666666
Bio	I ma dso so wa ka rela e sto!



SUCCESS
Profile updated.

OK

Save **Restore**

user_id	username	name	password	email	mobile	institution	role	bio
1	testu	Echidna	356a192b7913b(908j@ffd.e	666666	The Univ	Senio	I ma d	
2	default	Joe	default	ddsa@ads	000000	default		(Null)

Architecture 4+1 style

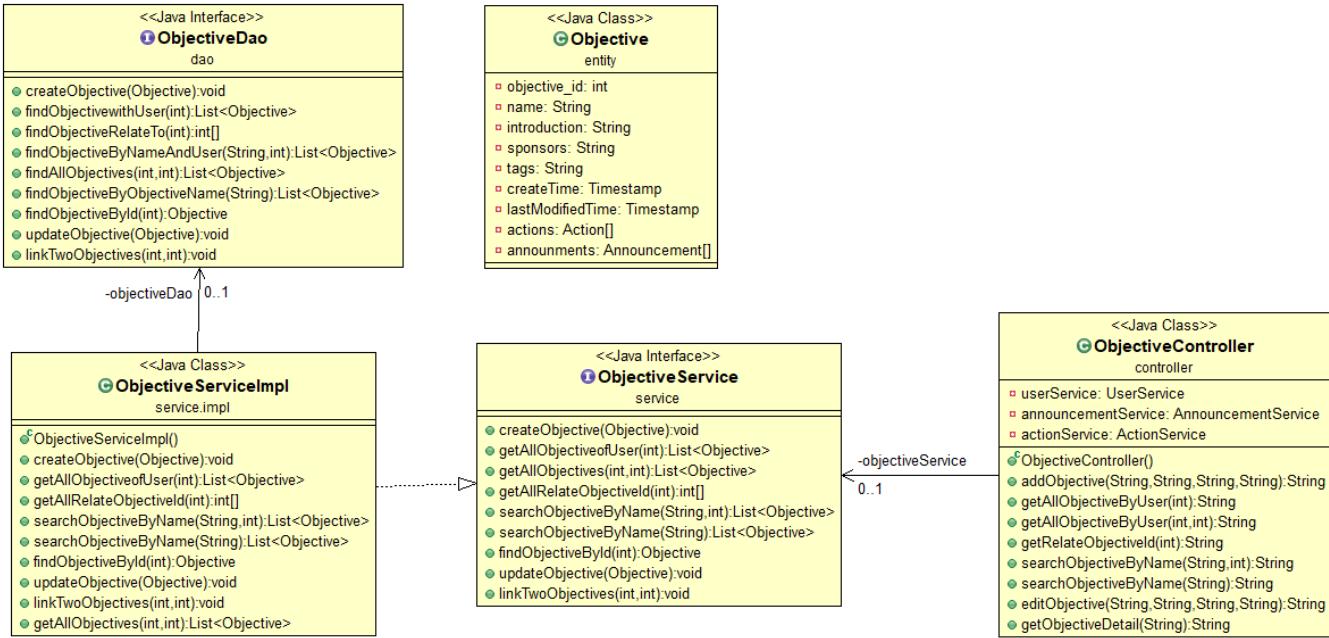
Architecture Design

Logical View

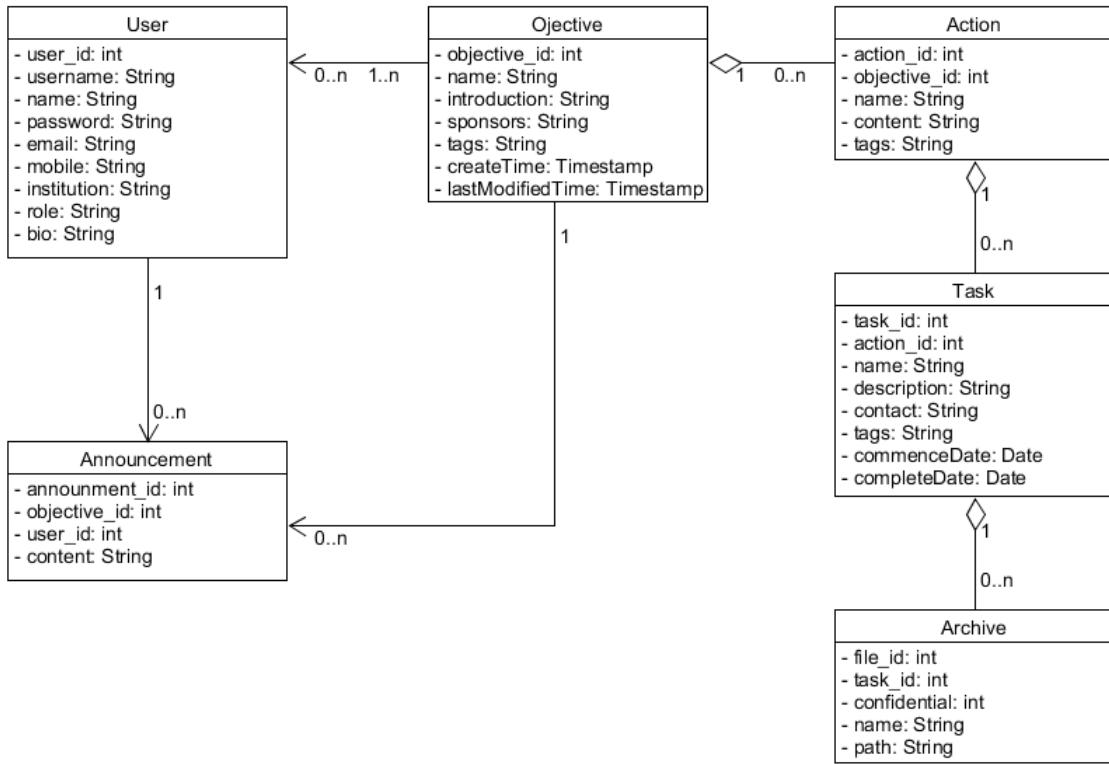
Class Diagram

By applying the SSM framework as the back-end framework. All the entity in the domain has a class, as well as a dao interface, controller, service interface and service interface implementation.

In the class diagram below, the entity objective is shown. Other entity such as action are similar:



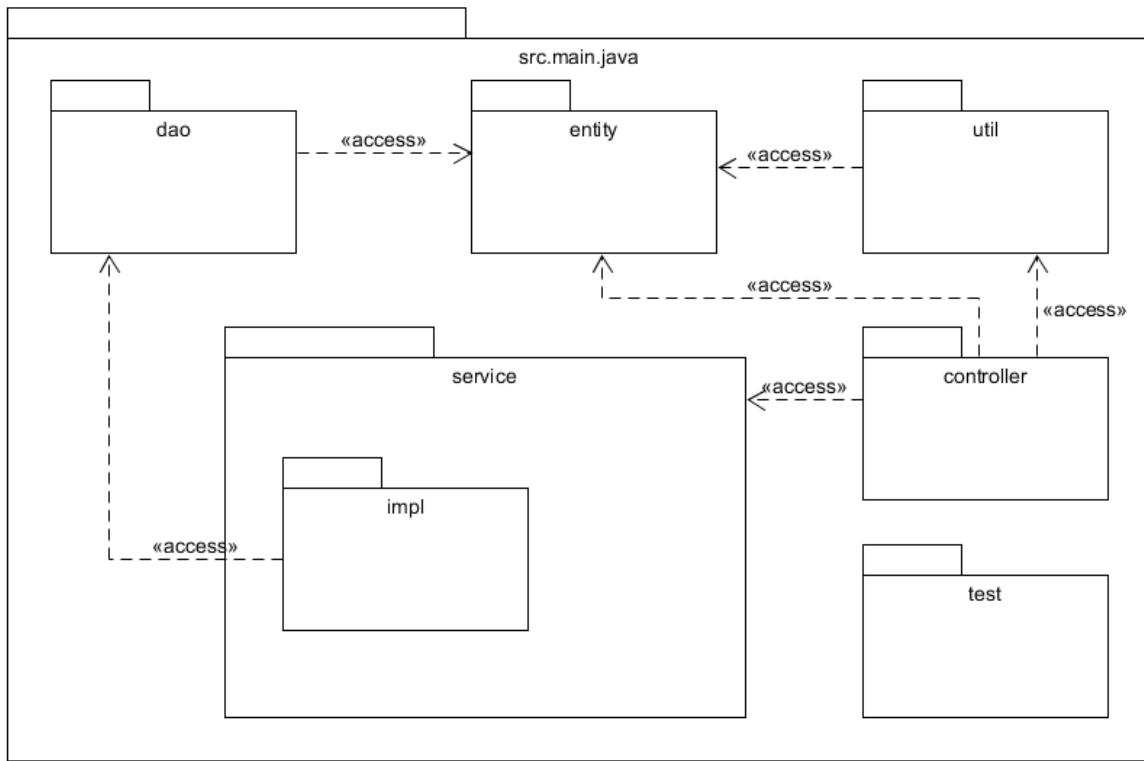
Domain Model Diagram



The project is involved with 6 entity classes. The relationship of the classes is as follow:

1. A user can be related to many objectives. And an objective can be accessed by multiple users;
2. A user can post announcements under one objective. An announcement is only belong to one user and one objective;
3. An objective has multiple actions, an action has multiple tasks, and a task has multiple archives (files);
4. An action is belong to one objective only, a task is belong to one action only, and an archive is belong to one task only.

Package Diagram



By applying maven, some packages are generated automatically to suit the maven structure. In the package diagram above, 'src.main.java' is the maven structure package.

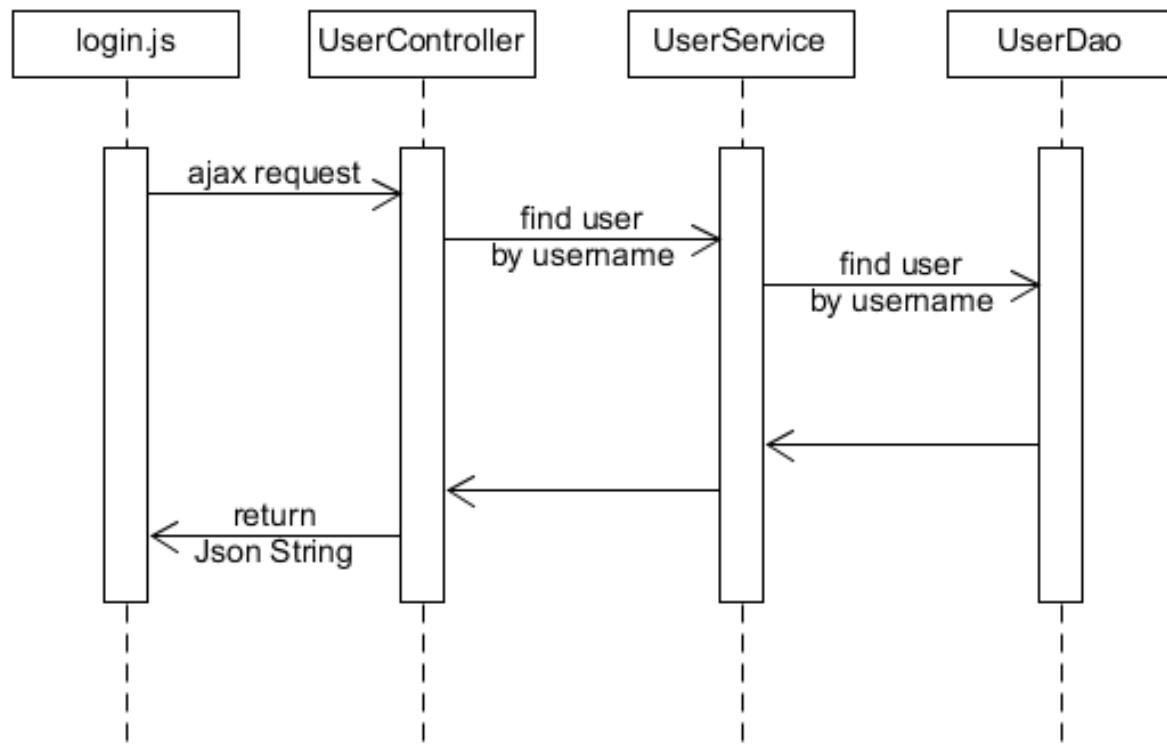
The role of the rest of packages is described below:

1. **entity**: the entity classes of this project. They stand for the database tables. Each class in the entity package has a corresponding table;
2. **dao**: the data access object package, contains the interfaces that interact with database. By using Mybatis, the implementation of the interfaces will be auto-generated. The naming strategy is "EntityName" + 'Dao';
3. **service**: contains the interfaces of project's service layer, all the methods in each service interface are consistent with the methods in dao interfaces. The naming strategy is "EntityName" + "Service";
4. **service.impl**: the implementation classes of the service interfaces. The naming strategy is "EntityName" + "ServiceImpl";
5. **controller**: the controller classes of the project which are responsible for receiving ajax request from the front-end. Each method in the controller classes is mapped with a url.
6. **util**: the util classes. All the methods in util classes are static;
7. **test**: dev team members write test script in this package.

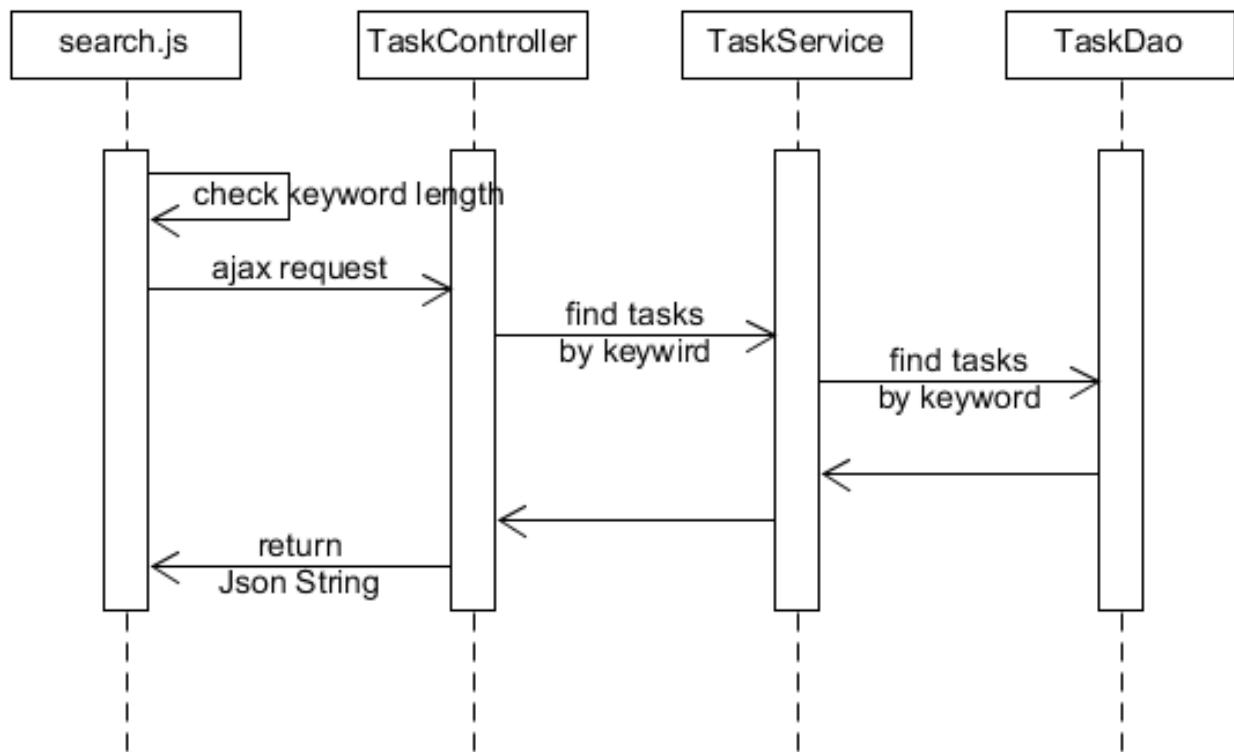
Process View

Sequence Diagram

User Login



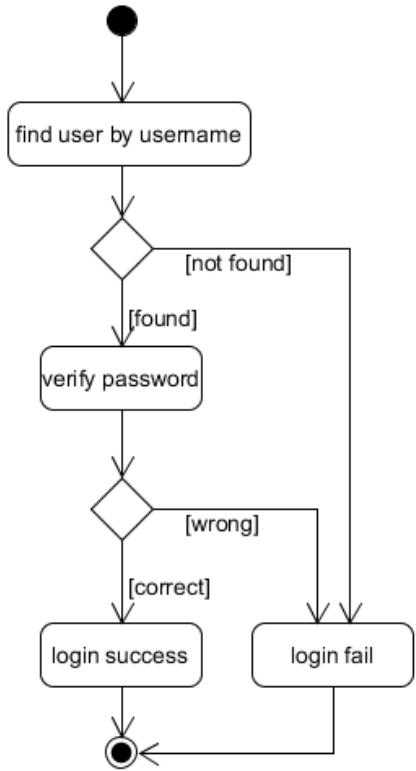
Search Task



Activity Diagram

User login

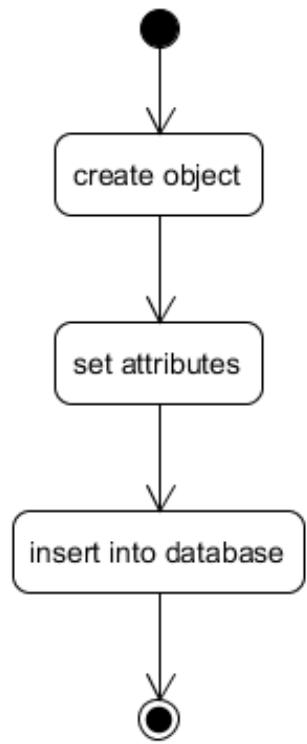
On the login page, a user is required to input the username and password. The system will accept the inputs and find the user information according to the username from database. If there is no account that maps the username, the activity stopped. Otherwise, the user object will be created, and the system will match the password. If the password is correct, the system will proceed to put the user id in the session.



Create Objective, Action, Task and Archive

The activity diagrams for creating a new objective, action, task as well as uploading a file are similar. In this case, all these four activities can be summarised into one diagram where object stands for these four artifacts.

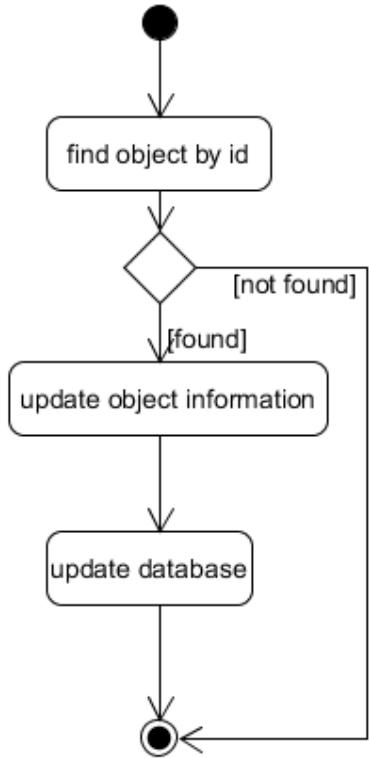
In the project, the user will input the attributes of the object. And an object will be created and a new database record will be inserted into the database.



Update Objective, Action, Task and Archive

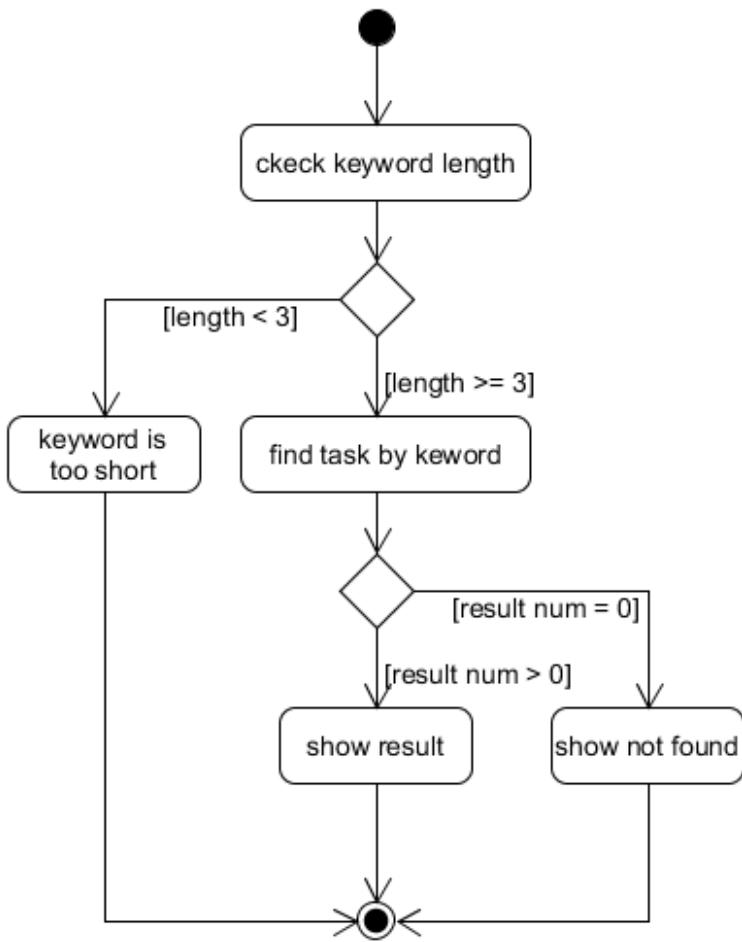
Similar to creating activities, all the entities of this project can be summarised into one.

When user post an updating request, the system will first find the record of this entity in database and create an object. The object will be updated and then update the corresponding record in the database by SQL query.



Search Task

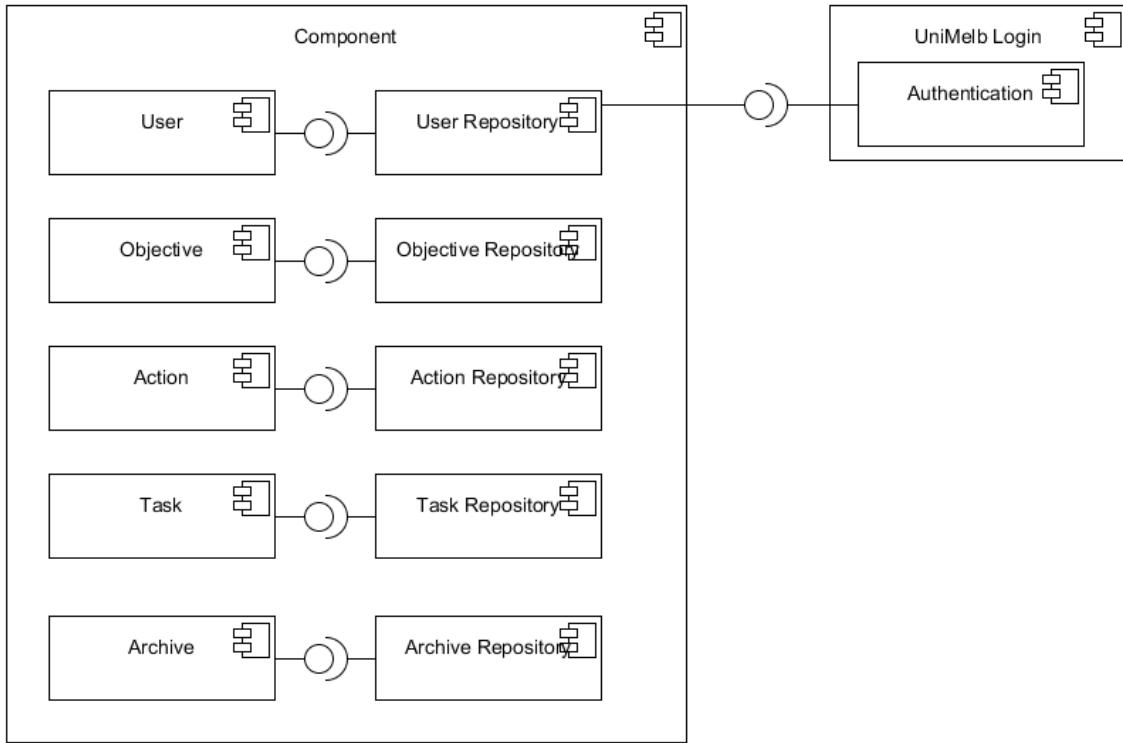
When searching tasks, the system will let user input the keyword. Only the keyword with the number of characters greater than 2 is considered as valid. After checking the keyword, the system will execute SQL query to find tasks with description containing the keyword. If there is no tasks found, the system will show 'NO RESULT FOUND' in the search page, otherwise the system will list all results to the user.



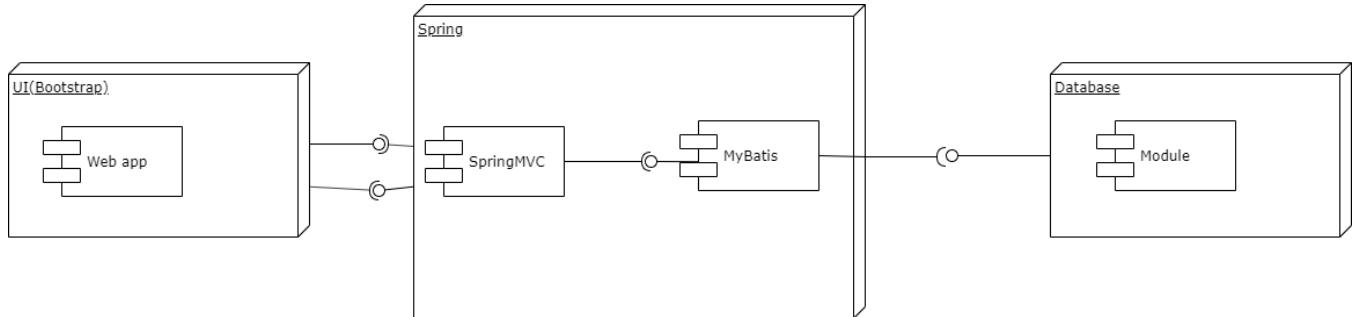
Implementation View

Component Diagram

The system has five components namely User, Objective, Action, Task and Archive. Each component has its own repository. Additionally, in the login section, the system may need to use the University of Melbourne login which means it needs to call the Authentication API provided by University.



As for the system architecture, we use the Bootstrap + SSM + Mybatis framework and the component diagram is shown blow:



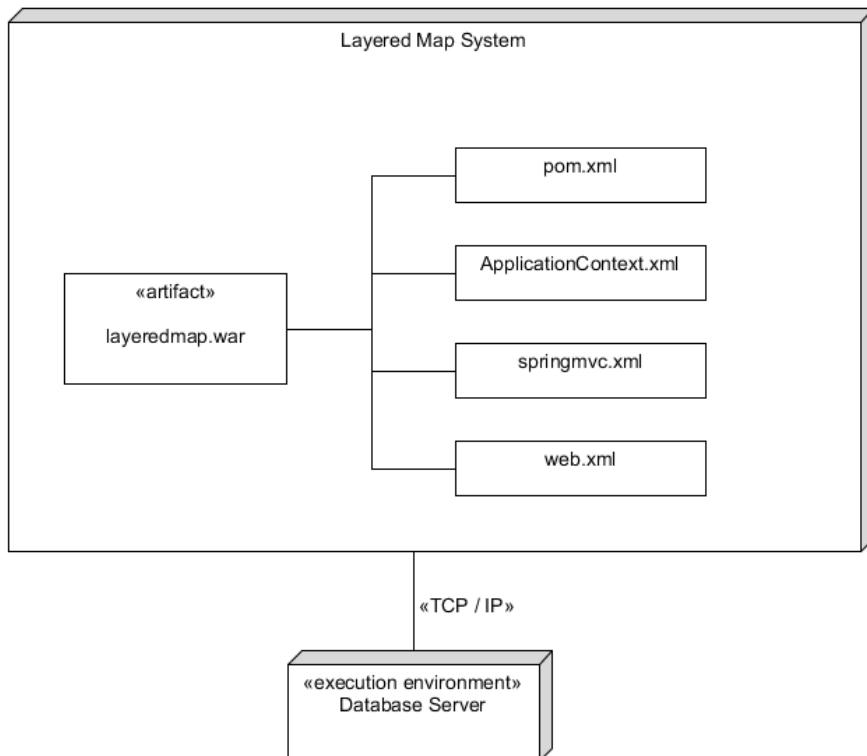
Deployment View

Deployment Diagram

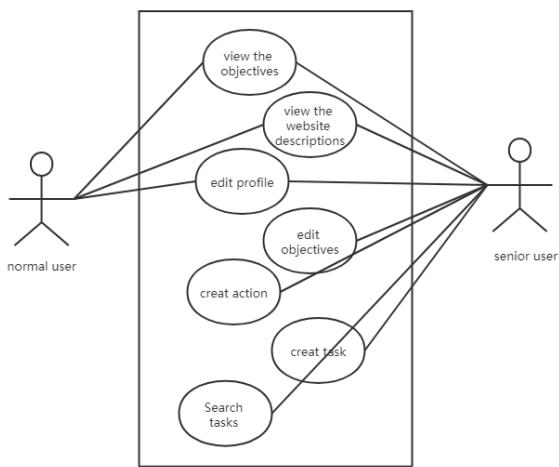
When deploying, the system will be packaged in to a .war file.

The system has configuration specification files:

- pom.xml: maven configuration;
- ApplicationContext.xml: Spring configuration;
- springmvc.xml: Spring MVC configuration;
- web.xml: Web app configuration, including the welcome page



Use case Diagram



In the Munarra Academy website, there are two kinds of users: normal user and senior user (including Senior executives, project managers, project staff).

Normal users can view the homepage and objectives which are post on the page, and edit their user profile.

Senior users can use the functions of normal users, they can also edit objectives, creat actions, creat task and search tasks by keywords.

Deployment Document

1 Background knowledge:

1.1 War package

War package is generally a collection of all source code under a website Project during Web development, which contains the foreground HTML/CSS/JS code as well as Java code.

After a developer debugs and passes all the code on their own development machine, the developer's source code needs to be packaged into a War for release in order to give it to testers for testing and future product releases.

The War package can be placed in the WebApps or Word directory under Tomcat, and it can be automatically unzipped as the Tomcat server is started.

1.2 Tomcat server

Tomcat server is a free open source Web application server, belongs to the lightweight application server, in small and medium-sized systems and concurrent access users are not a lot of occasions are commonly used, is the development and debugging JSP program is the first choice, the latest Servlet and JSP specifications can always be reflected in Tomcat.

2 Configure the Java runtime environment

2.1 Download and install the JDK

Download from the website to download the latest JDK:<http://java.sun.com/javase/downloads/index.jsp>, **JDK version: 1.8**, after the installation, choose to the JDK installation directory. The JRE is included in the JDK, so there is no need to install another JRE.

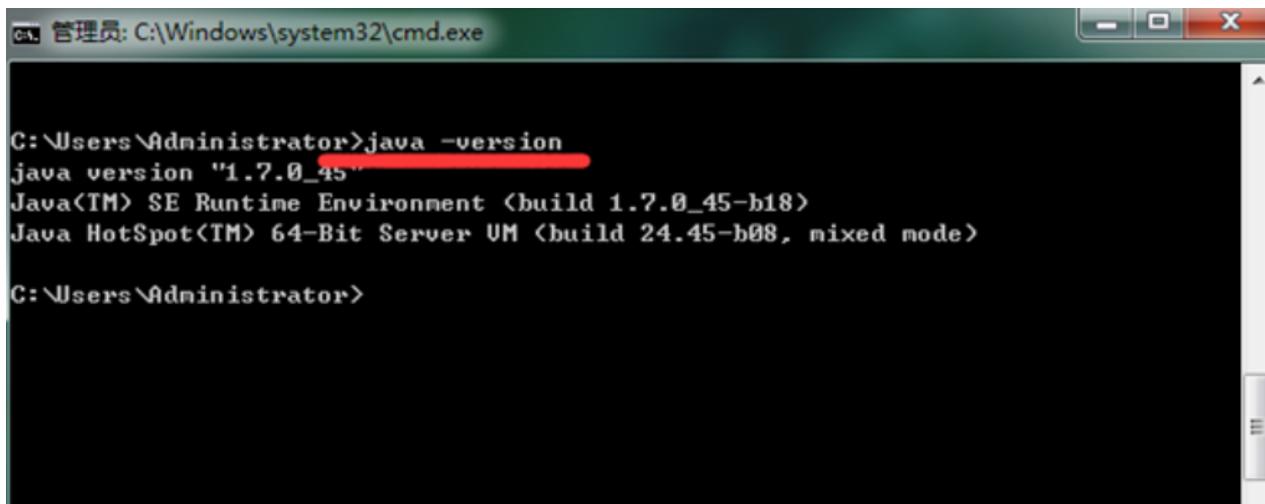
2.2 Set the JDK environment variables

Right click "Computer", click "Properties", click "Advanced System Settings" on the left side of the popup window, and select "Advanced -& GT; Environment variables.

- New variable name: **JAVA_HOME**; Variable value: the directory where you installed the JDK is **C:\Program Files\Java\Jdk1.8_45**.
- New variable name: **CLASSPATH** Variable's value: **.;%JAVA_HOME%\lib;%JAVA_HOME%\lib\dt.jar;%JAVA_HOME%\lib\tools.jar;%TOMCAT_HOME%\BIN**
- Edit the path of the environment variable: Variable name: **Path**; Variable value: **%JAVA_HOME%\bin;%JAVA_HOME%\jre\bin;**

2.3 Verify that the JDK environment variables were set successfully

Enter Java - Version :



```
管理员: C:\Windows\system32\cmd.exe
C:\Users\Administrator>java -version
java version "1.7.0_45"
Java(TM) SE Runtime Environment (build 1.7.0_45-b18)
Java HotSpot(TM) 64-Bit Server VM (build 24.45-b08, mixed mode)

C:\Users\Administrator>
```

3 Deploy the Tomcat server

3.1 Download Tomcat to the local hard disk

Download the Tomcat server from the official website. All files downloaded from the official website are green and installation-free.

Download address is: <http://tomcat.apache.org/download-90.cgi>.

Unzip after downloading, as C:\ Apache-Tomcat-9.0.26.

3.2 Set the Tomcat environment variables

Still open the computer's environment variables dialog box.

Create a new environment variable:

Variable name: TOMCAT_HOME

Variable value: your TOMCAT unzipped directory, such as E:\Apache-Tomcat-9.0.26.

4. Deploy the War package for the Web project to the Tomcat server

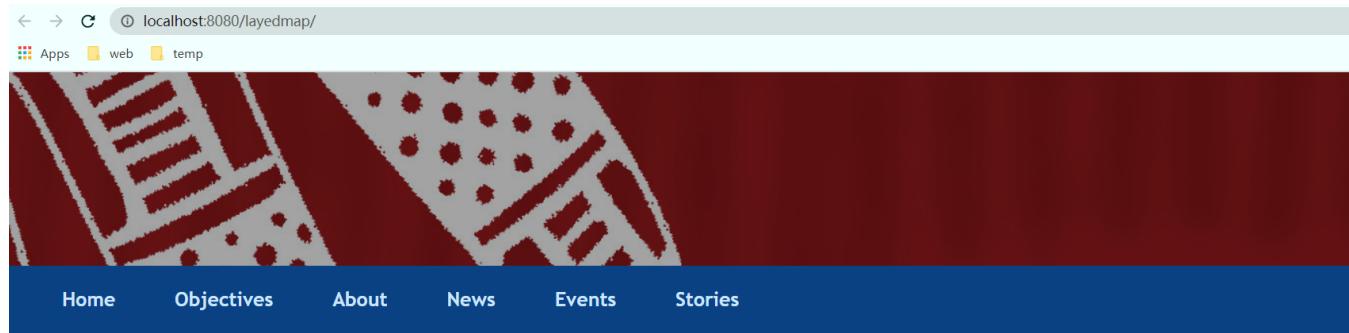
There are two URL to access and download layedmap.war:

<https://drive.google.com/drive/folders/1TpZXtgIrtAoSdhgEoEyjKKhtahj7blOW?usp=sharing>

<https://github.com/qiqih-code/Echidna-layedmap>

Copy the layedmap.war package to Tomcat's Webapp. Is configured so that when the access path is:

<http://localhost:8080/layedmap/>



Objective 1

Contribute to and enhance a strength based, culturally engaged, high support model of education.



Objective 2

Co-develop and establish further study pathways for Munarra Academy graduates and other prospective students, including to UoM higher education courses.



Objective 3

Develop integrated employment pathways and career development for Munarra Academy graduates.

User Document

1. user log in and edit profile

After successfully accessing the url <http://localhost:8080/layeredmap/>, the user will see the homepage at first. Before doing anything else, the user needs to log in.

1.1 log in

Click 'login' on the top right corner.



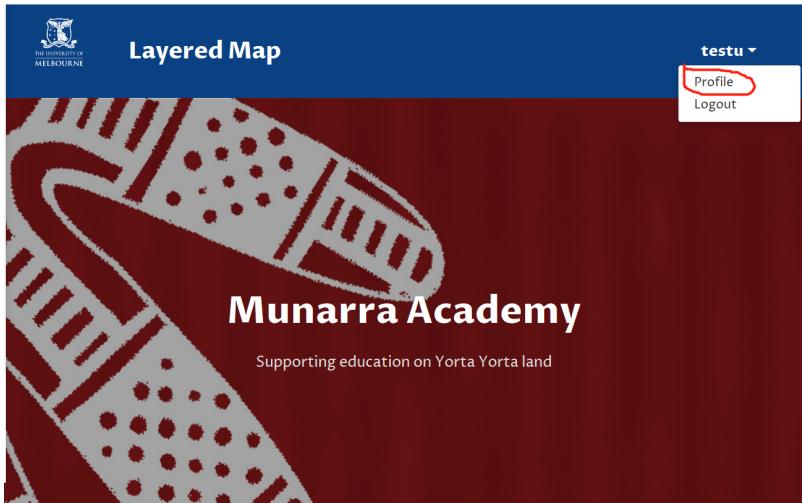
Then it will jump to login page .

Type username and password, and click 'login'.

A screenshot of the University of Melbourne login page. The page has a dark blue header with the University of Melbourne logo and the text "Layered Map". Below the header, there is a form for logging in. It asks for "Username:" and "Password:", each with an input field. At the bottom of the form are two buttons: a green "LOGIN" button and a blue link "Problems logging in?". At the very bottom of the page, there is a dark blue footer bar with the text "@2020 University of Melbourne" and "Master Software Engineering Echidna".

1.2 view/edit profile

After logging in, click the triangle on the top right corner and select and click 'profile'.



Then, in the profile view page below, click 'edit' button to edit profile.

Role	University Staff not working on project
Institution	
Email	123@mail.com
Phone	
Bio	Bio

Edit

Edit anything in the page below, and when finishing click 'save' button to confirm the change.

Role	University Staff not working on project
Institution	Your institution
Email	123@mail.com
Phone	Your Phone number
Bio	Bio

Save **Restore**

2. view homepage

When in other pages, click 'Layered Map' on the top area to jump to homepage.



Layered Map

Search testu-

Echidna

Role	Project Team Member
Institution	
Email	123@mail.com
Phone	
Bio	Bio

Edit

Scroll down to the bottom of the homepage, click any objective name to jump to an objective page.

Home Objectives About News Events Stories



Objective 1

Contribute to and enhance a strength based, culturally engaged, high support model of education.



Objective 2

Co-develop and establish further study pathways for Munarra Academy graduates and other prospective students, including to UoM higher education courses.



Objective 3

Develop integrated employment pathways and career development for Munarra Academy graduates.



3. objective,action and take pages

3.1 objective page

Objective name, picture, keywords and description are on the left side on the page. Click any area highlighted by red rectangles to access the corresponding action page.



Layered Map

Search testu-



Recent Actions

- Action 1.1 Co-manage with partners the transition of ASHE to the Munarra Academy
- Action 1.2 Contribute to enhancing ASHE/MA model of education by providing teaching and communications training to ASHE/MA staff
- Action 1.3 Co-develop UoM on country subjects and options for delivery at MA/in the region, including in STEM disciplines

Edit **Create Action**

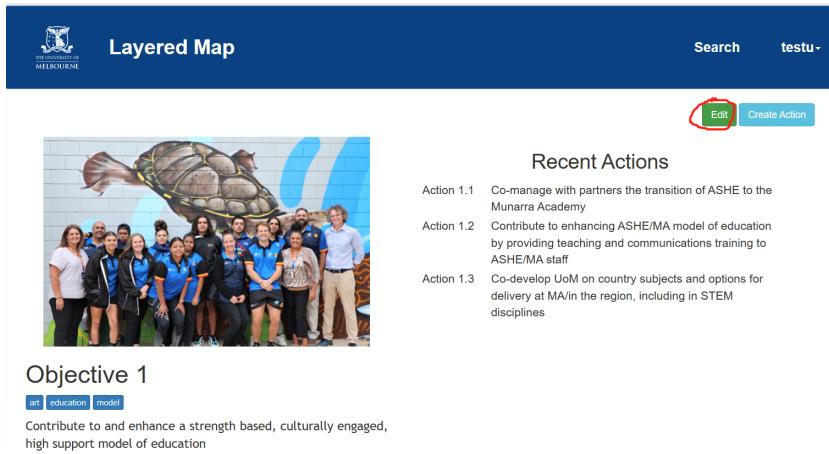
Objective 1

art | education | model

Contribute to and enhance a strength based, culturally engaged, high support model of education

3.1.1 edit objective information

Click 'Edit' button to edit this objective then 'Edit Objective' window pops out.

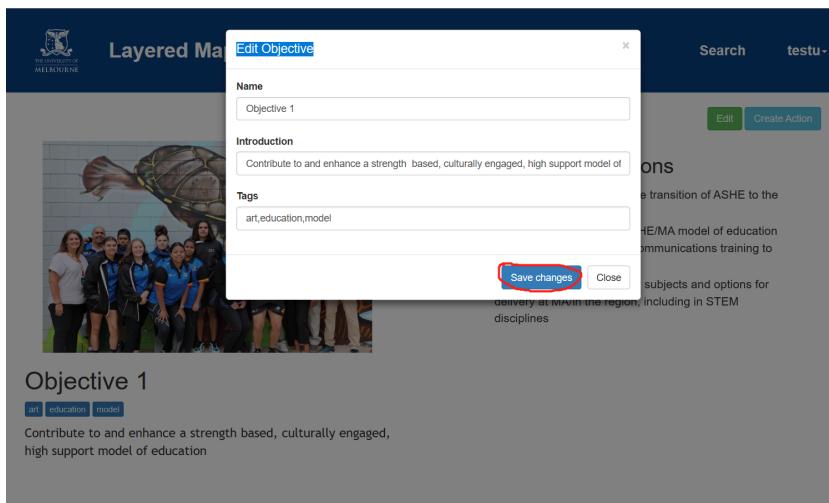


The screenshot shows the 'Layered Map' interface. At the top, there's a blue header bar with the University of Melbourne logo, a search bar, and a user name 'testu...'. Below the header is a large image of a group of people standing in front of a turtle mural. To the right of the image, there's a 'Recent Actions' section and a list of three actions:

- Action 1.1: Co-manage with partners the transition of ASHE to the Munarra Academy
- Action 1.2: Contribute to enhancing ASHE/MA model of education by providing teaching and communications training to ASHE/MA staff
- Action 1.3: Co-develop UoM on country subjects and options for delivery at MA/in the region, including in STEM disciplines

Below the image, the title 'Objective 1' is displayed, followed by a list of tags: 'art', 'education', and 'model'. A descriptive text follows: 'Contribute to and enhance a strength based, culturally engaged, high support model of education'.

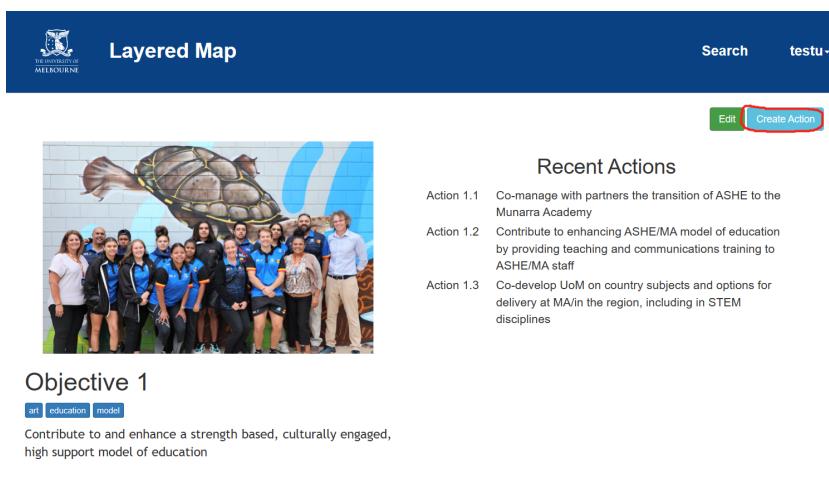
In 'Edit Objective' window, Type information and then click 'save changes' button.



This screenshot shows the 'Edit Objective' modal window overlaid on the main 'Layered Map' interface. The modal has fields for 'Name' (containing 'Objective 1'), 'Introduction' (containing the same descriptive text as the main page), and 'Tags' (containing 'art,education,model'). At the bottom of the modal, there are 'Save changes' and 'Close' buttons, with 'Save changes' being highlighted with a red circle.

3.1.2 create action

Click 'Create Action' to create new action then 'Create Action' window pops out .



The screenshot shows the 'Layered Map' interface again. The 'Create Action' button is highlighted with a red circle. The rest of the interface is similar to the previous screenshot, showing the 'Recent Actions' section and the details for Objective 1.

Similarly, in 'Create Action' window, type information and then click 'Create' button.

Create Action

Action Name:

Action Description:

Tags:

Create **Close**

Objective 1

art education model

Contribute to and enhance a strength based, culturally engaged, high support model of education

3.2 action page

Action page is similar to objective page with information on the left and tasks on the right.

Click the area of corresponding task to access that task page. 'Edit' And 'Create Task' buttons and windows are similar to those of objective page.

Action 1.1

education

Co-manage with partners the transition of ASHE to the Munarra Academy

Tasks	
Task 1	Sign partnership agreements
Task 2	Plan for relocation

Edit **Create Task**

3.2.1 search function

Click 'Search' on the top to search tasks using keywords. (Any page containing 'Search' on the top has this function)

Type keyword and click 'Create' to create and access the search results page.

The screenshot shows a dark-themed user interface titled 'Layered Map'. At the top, there is a search bar with the placeholder 'Search Tasks' and a red box highlighting the input field containing the word 'partnership'. Below the search bar is a 'Keyword' section with a red box around the 'Create' button. A modal window titled 'Tasks' is open, displaying two items: 'Task 1' (Sign partnership agreements) and 'Task 2' (Plan for relocation). The 'Create' button in the modal is also highlighted with a red box.

Click the highlighted area to access the corresponding task page.

The screenshot shows a dark-themed user interface titled 'Layered Map'. At the top, there is a search bar with the placeholder 'Search' and a red box highlighting the input field containing the word 'partnership'. Below the search bar is a 'Task 1' item with a red box around its title. The task details are: 'Sign partnership agreements'. The entire search results section is labeled 'ALL RESULTS'.

3.3 task page

3.3.1 edit task page

Click the 'Edit' button .

The screenshot shows a dark-themed user interface titled 'Layered Map'. At the top, there is a search bar with the placeholder 'Search' and a red box highlighting the 'Edit' button. The task details for 'Task 1' are displayed: 'Sign partnership agreements' (Status: Echidna), 'Commence Date: 2020-10-16', and 'Complete Date: 2020-10-28'. To the right, there is an 'ARCHIVES' section.

Edit information of the task and then click 'save'.

Layered Map

Task 1

Task Name: Task 1

Task Description: Sign partnership agreements

Contact: Echidna

Commence Date: 2020/10/16

Complete Date: 2020/10/28

Tags: partnership

Save **Close**

3.3.2 upload file

Click the 'Upload File' button .

Layered Map

Task 1

Task Name: Task 1

Task Description: Sign partnership agreements

Contact: Echidna

Commence Date: 2020/10/16

Complete Date: 2020/10/28

Upload File

Then in the 'Upload File' window, click on the area marked red to select a file in local machine repository, Then click 'upload'.

Tick 'Confidential' if the file means to be not accessible to non-relevant guests.

Layered Map

File Upload

File: 浏览...

Confidential

Upload **Close**

Task 1

Task Name: Task 1

Task Description: Sign partnership agreements

Contact: Echidna

Commence Date: 2020/10/16

Complete Date: 2020/10/28

After successfully uploaded, files should be visible under 'ARCHIVES'.

[Edit](#) [Upload File](#)**Task 1**[partnership](#)

Sign partnership agreements

Echidna

Commence Date 2020-10-16

Complete Date 2020-10-28

ARCHIVES[Instruction1.txt](#) [download](#) [remove](#)
[Instruction2.txt](#) [download](#) [remove](#) (confidential)

Verification and Validation

Testing techniques

1. What are the rules for who will test artefacts the team produces?

- Unit test by developers
- Integration test by developers
- System test developers
- Acceptance test by the product owner

2. What general approach is required for testing?

- White-box testing (unit test)
- White-box testing (integration test)
- Black-box testing (system test)
- Manually

3. How are test results to be documented?

- All the test scripts will be uploaded to the BitBucket repository, as well as the outputs.
- Any unexpected test results (failures, faults) will be documented in Confluence page.
- The results of the acceptance test will be recorded by screenshot and uploaded to the Confluence page.

4. How are test failures to be handled?

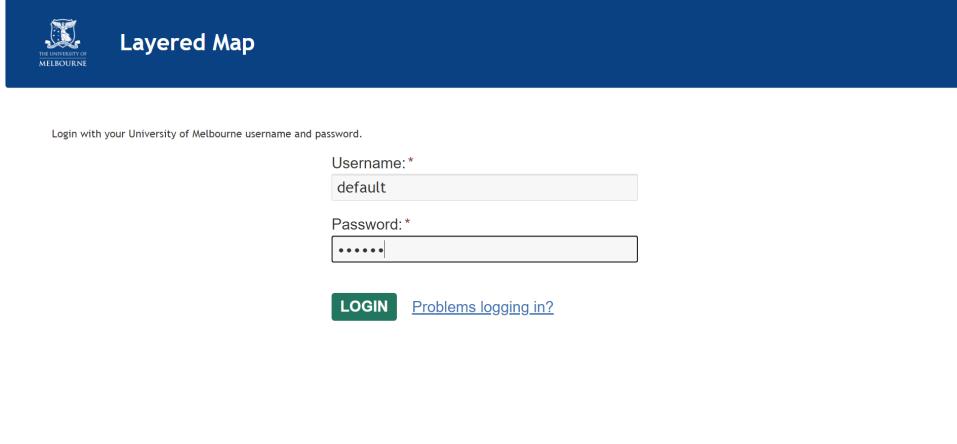
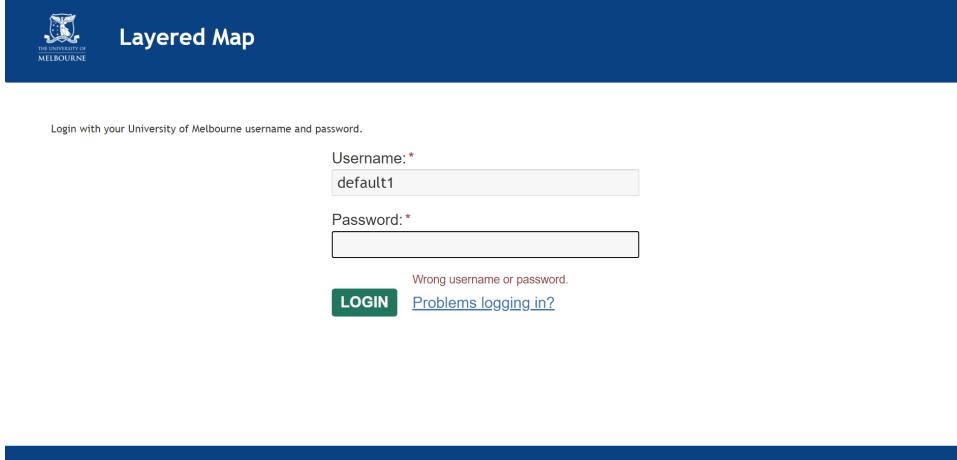
- The failures will be recorded in JIRA as new issues and assigned to developers.

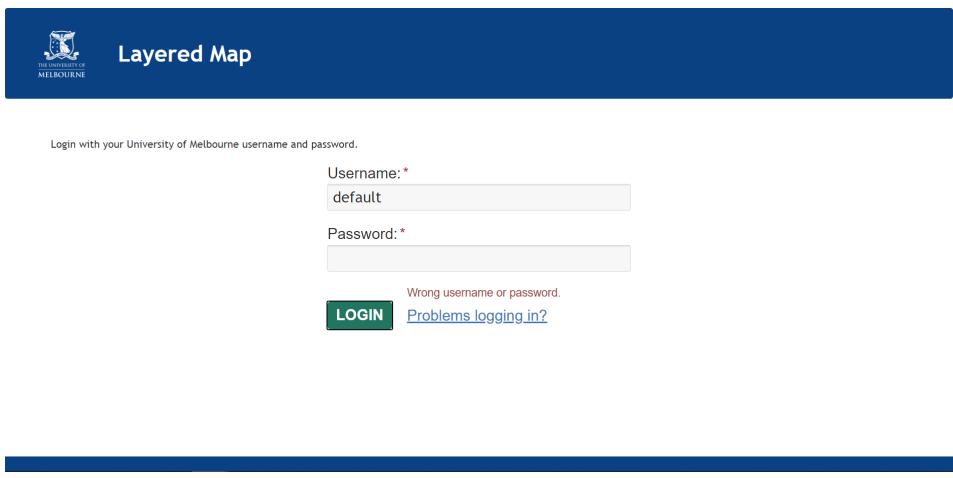
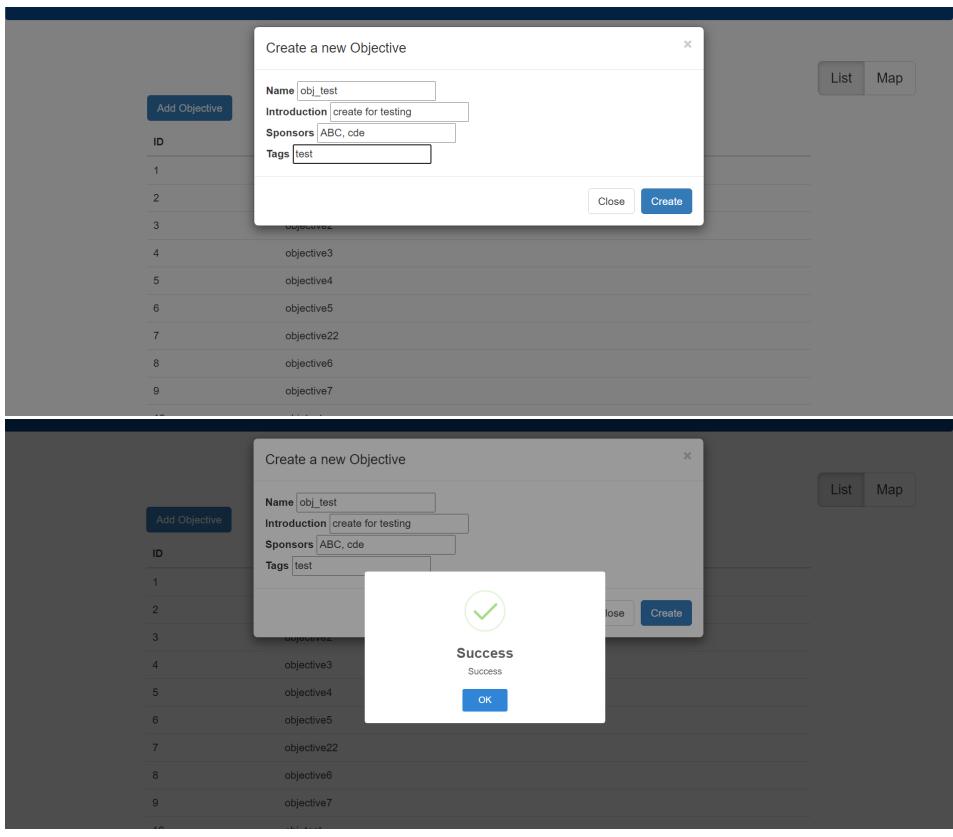
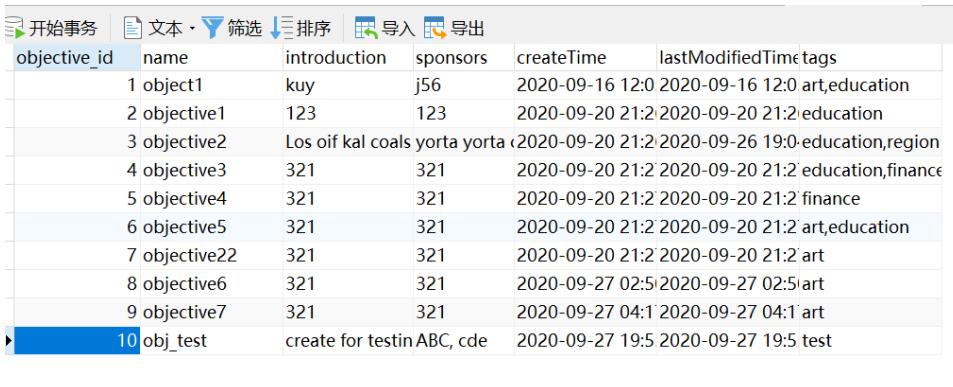
Reviewing documents

Other V&V activities

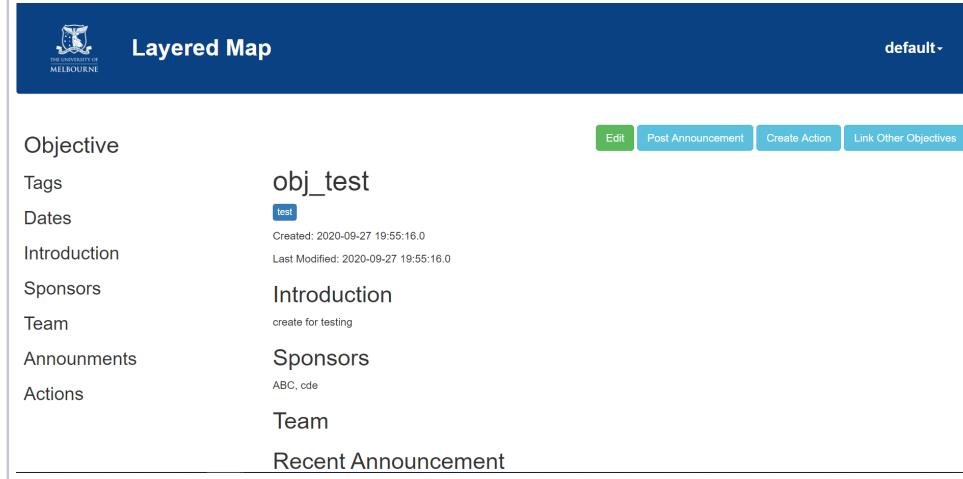
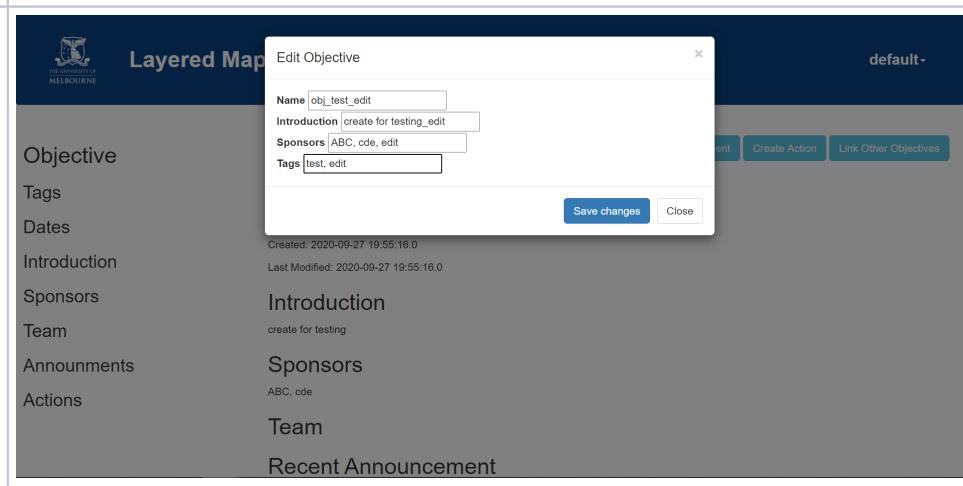
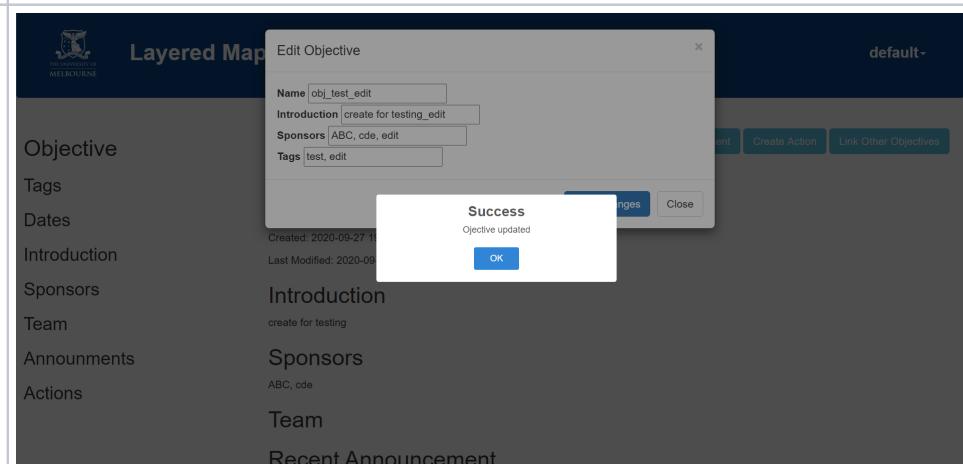
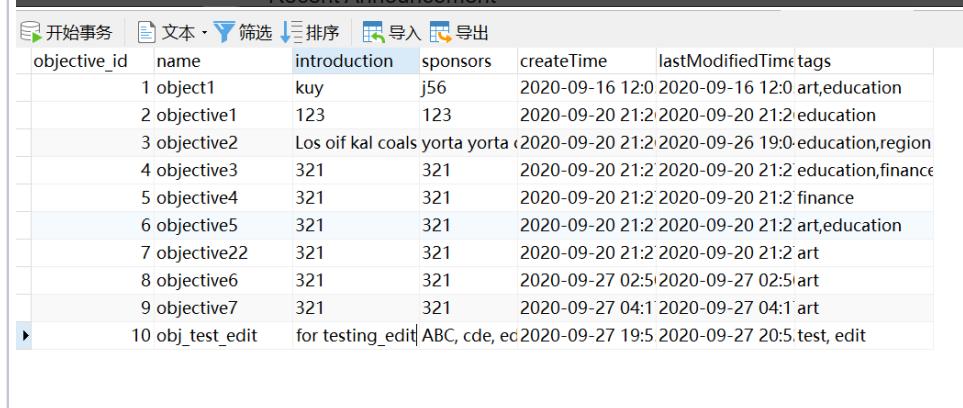
Testing

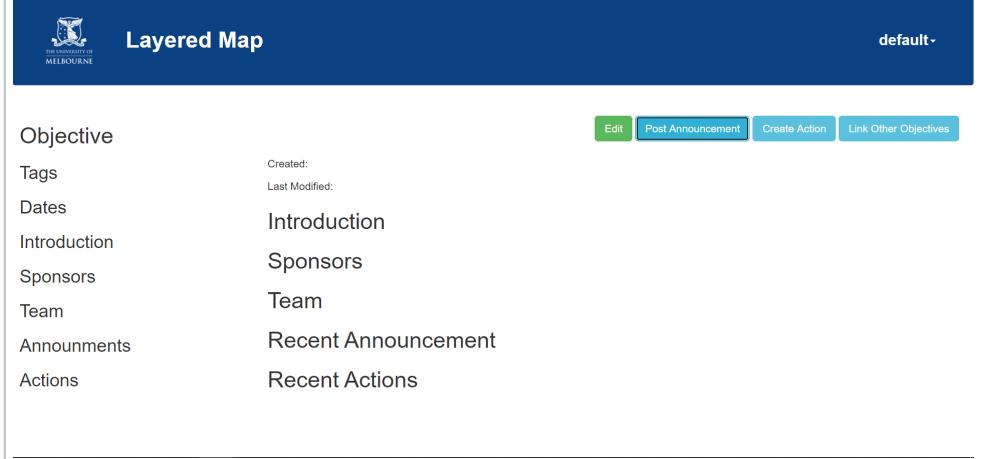
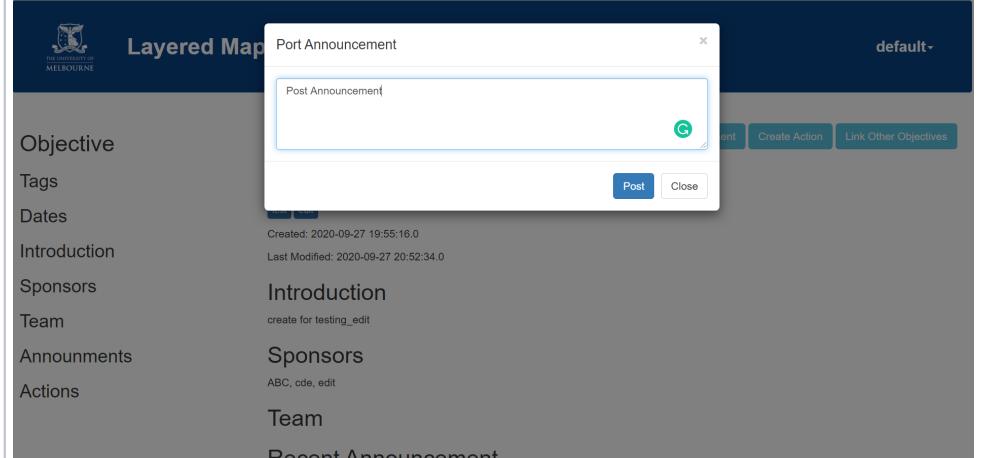
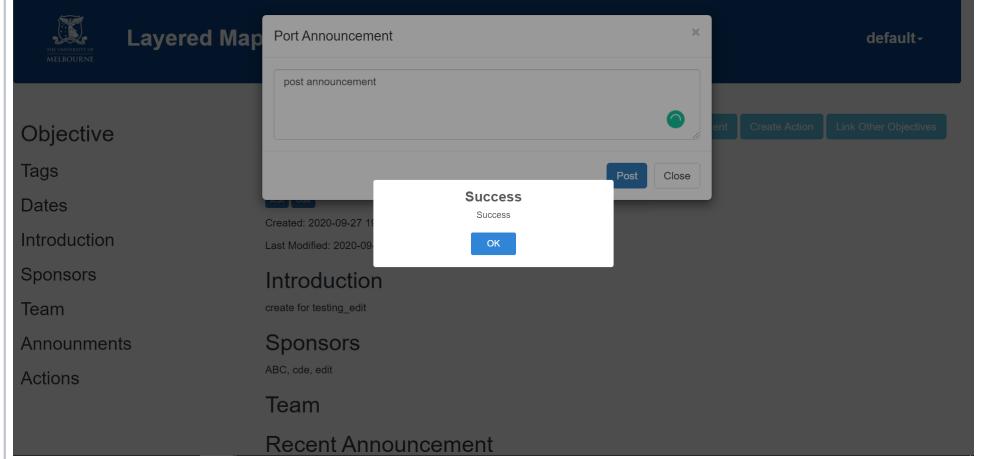
Sprint2 Testing

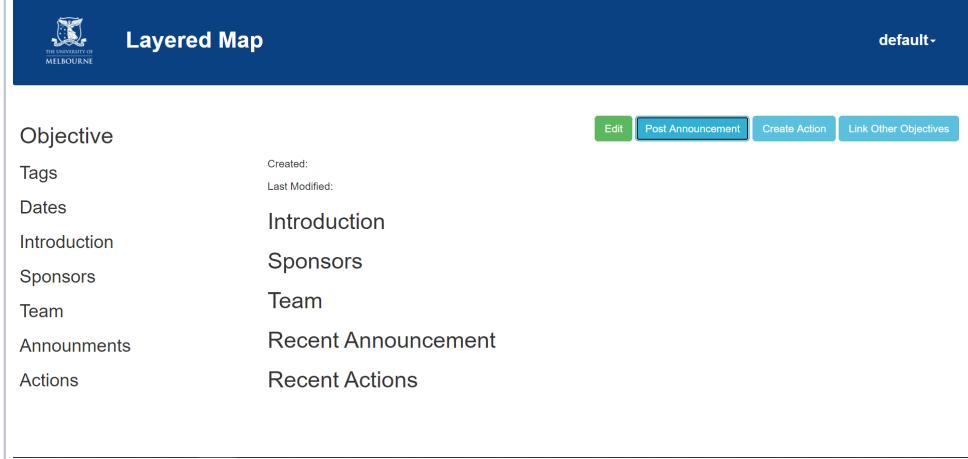
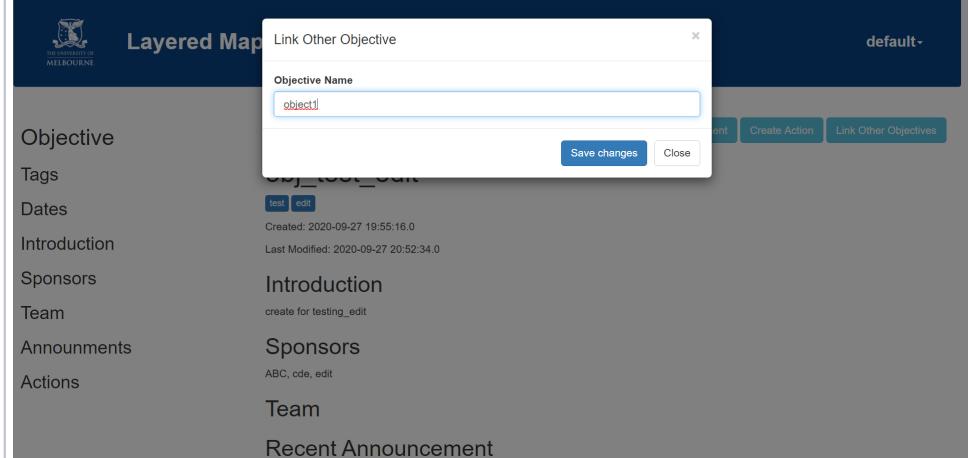
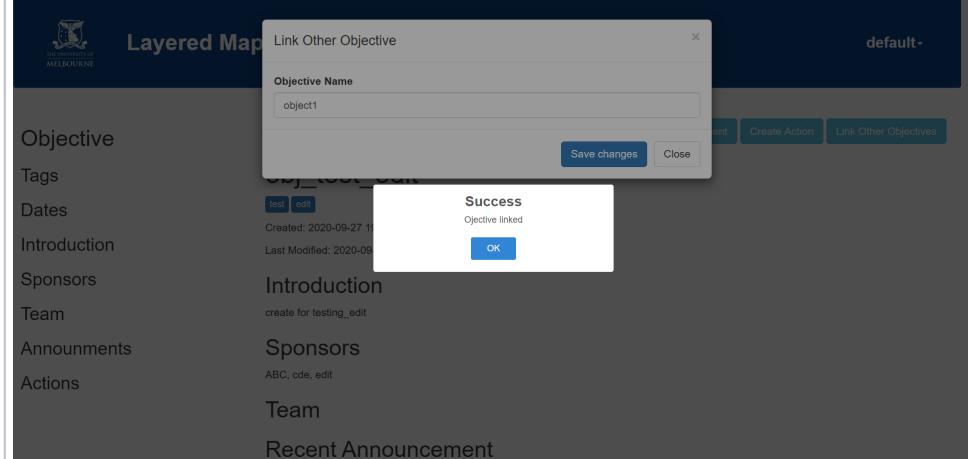
1.1 Joe as the Senior Executive log in the system	1.1. Joe inputs right Username default and Password (123456), clicks on the "LOGIN" button, it jumps to the main page.	 <p>The screenshot shows the Layered Map login interface. It features the University of Melbourne logo at the top left. The title "Layered Map" is centered above a login form. Below the title, a message says "Login with your University of Melbourne username and password." The login form contains two fields: "Username: * default" and "Password: *". A green "LOGIN" button is positioned below the password field, and a link "Problems logging in?" is to its right.</p>
	1.2 Joe inputs wrong username (default1), the page shows "Wrong username or password."	 <p>The screenshot shows the Layered Map login interface. It features the University of Melbourne logo at the top left. The title "Layered Map" is centered above a login form. Below the title, a message says "Login with your University of Melbourne username and password." The login form contains two fields: "Username: * default1" and "Password: *". A red error message "Wrong username or password." is displayed below the password field. A green "LOGIN" button is positioned below the password field, and a link "Problems logging in?" is to its right.</p>

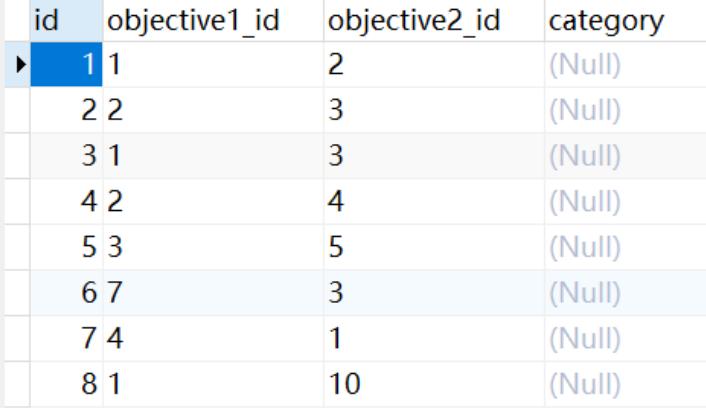
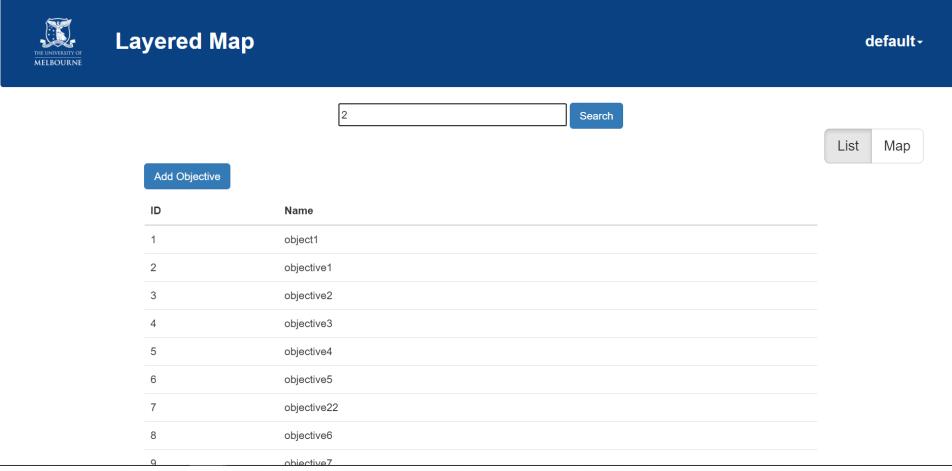
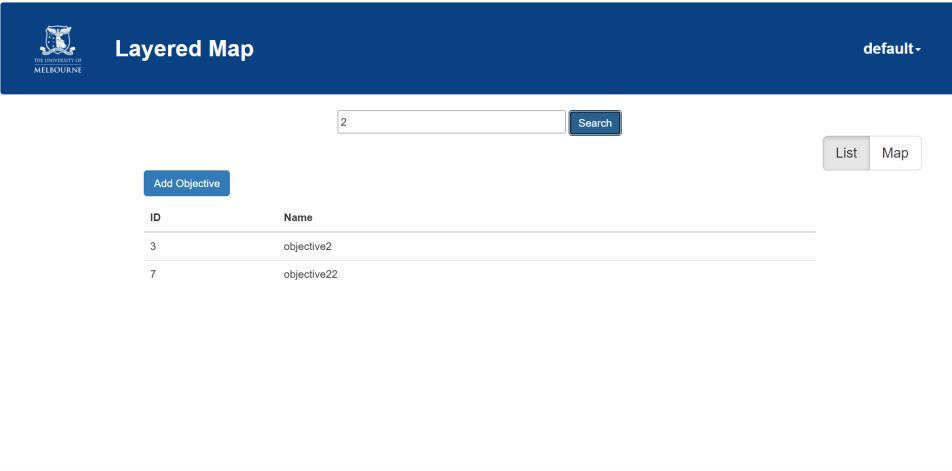
	1.3 Joe inputs wrong password (12345), the page shows "Wrong username or password."																																																																														
1.2 Joe creates a new objective	2.1 Joe clicks on the "Add new objective" button, the page pops up the add menu. input Name, Introduction, Sponsors and Tags, click on the "Create" button it pops up the "success" window.																																																																														
2.2	Through Sourcetree, Joe can see that new objective (obj_test) was created successfully in the database.	 <p>The screenshot shows a table with the following data:</p> <table border="1"> <thead> <tr> <th>objective_id</th> <th>name</th> <th>introduction</th> <th>sponsors</th> <th>createTime</th> <th>lastModifiedTime</th> <th>tags</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>object1</td> <td>kuy</td> <td>j56</td> <td>2020-09-16 12:0</td> <td>2020-09-16 12:0</td> <td>art,education</td> </tr> <tr> <td>2</td> <td>objective1</td> <td>123</td> <td>123</td> <td>2020-09-20 21:2</td> <td>2020-09-20 21:2</td> <td>education</td> </tr> <tr> <td>3</td> <td>objective2</td> <td>Los oif kal coals yorta yorta</td> <td>yorta</td> <td>2020-09-20 21:2</td> <td>2020-09-26 19:0</td> <td>education,region</td> </tr> <tr> <td>4</td> <td>objective3</td> <td>321</td> <td>321</td> <td>2020-09-20 21:2</td> <td>2020-09-20 21:2</td> <td>education,finance</td> </tr> <tr> <td>5</td> <td>objective4</td> <td>321</td> <td>321</td> <td>2020-09-20 21:2</td> <td>2020-09-20 21:2</td> <td>finance</td> </tr> <tr> <td>6</td> <td>objective5</td> <td>321</td> <td>321</td> <td>2020-09-20 21:2</td> <td>2020-09-20 21:2</td> <td>art,education</td> </tr> <tr> <td>7</td> <td>objective22</td> <td>321</td> <td>321</td> <td>2020-09-20 21:2</td> <td>2020-09-20 21:2</td> <td>art</td> </tr> <tr> <td>8</td> <td>objective6</td> <td>321</td> <td>321</td> <td>2020-09-27 02:5</td> <td>2020-09-27 02:5</td> <td>art</td> </tr> <tr> <td>9</td> <td>objective7</td> <td>321</td> <td>321</td> <td>2020-09-27 04:1</td> <td>2020-09-27 04:1</td> <td>art</td> </tr> <tr> <td>10</td> <td>obj_test</td> <td>create for testin</td> <td>ABC, cde</td> <td>2020-09-27 19:5</td> <td>2020-09-27 19:5</td> <td>test</td> </tr> </tbody> </table>	objective_id	name	introduction	sponsors	createTime	lastModifiedTime	tags	1	object1	kuy	j56	2020-09-16 12:0	2020-09-16 12:0	art,education	2	objective1	123	123	2020-09-20 21:2	2020-09-20 21:2	education	3	objective2	Los oif kal coals yorta yorta	yorta	2020-09-20 21:2	2020-09-26 19:0	education,region	4	objective3	321	321	2020-09-20 21:2	2020-09-20 21:2	education,finance	5	objective4	321	321	2020-09-20 21:2	2020-09-20 21:2	finance	6	objective5	321	321	2020-09-20 21:2	2020-09-20 21:2	art,education	7	objective22	321	321	2020-09-20 21:2	2020-09-20 21:2	art	8	objective6	321	321	2020-09-27 02:5	2020-09-27 02:5	art	9	objective7	321	321	2020-09-27 04:1	2020-09-27 04:1	art	10	obj_test	create for testin	ABC, cde	2020-09-27 19:5	2020-09-27 19:5	test
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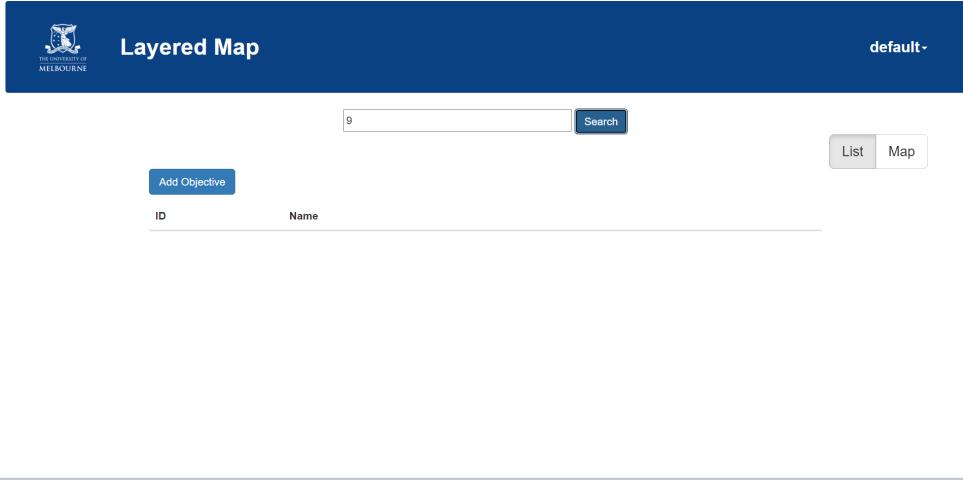
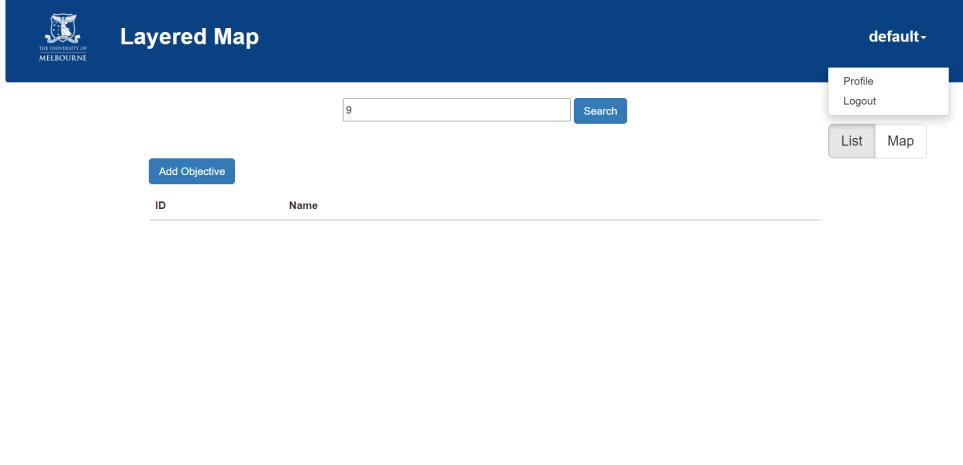
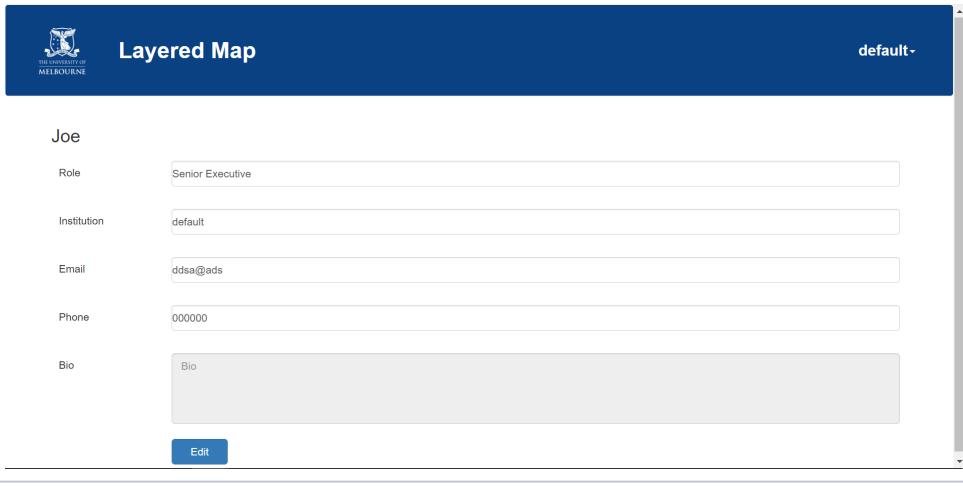
	1. Joe goes back on 2.3 the main page, the new objective (obj_test) is listed at the bottom of this page.	<p>Add Objective</p> <table border="1"> <thead> <tr> <th>ID</th><th>Name</th></tr> </thead> <tbody> <tr><td>1</td><td>object1</td></tr> <tr><td>2</td><td>objective1</td></tr> <tr><td>3</td><td>objective2</td></tr> <tr><td>4</td><td>objective3</td></tr> <tr><td>5</td><td>objective4</td></tr> <tr><td>6</td><td>objective5</td></tr> <tr><td>7</td><td>objective22</td></tr> <tr><td>8</td><td>objective6</td></tr> <tr><td>9</td><td>objective7</td></tr> <tr><td>10</td><td>obj_test</td></tr> </tbody> </table>	ID	Name	1	object1	2	objective1	3	objective2	4	objective3	5	objective4	6	objective5	7	objective22	8	objective6	9	objective7	10	obj_test
ID	Name																							
1	object1																							
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6	objective5																							
7	objective22																							
8	objective6																							
9	objective7																							
10	obj_test																							
	1. Joe clicks on the 2.4 "obj_test" on the main page, it Jumps to the objective detail page.	<p>Layered Map default-</p> <p>Objective</p> <p>Tags obj_test <small>test</small></p> <p>Dates Created: 2020-09-27 19:55:16.0 Last Modified: 2020-09-27 19:55:16.0</p> <p>Introduction</p> <p>Sponsors</p> <p>Team</p> <p>Announcements</p> <p>Actions</p> <p>Introduction</p> <p>Sponsors</p> <p>Team</p> <p>Recent Announcement</p> <p><small>Edit Post Announcement Create Action Link Other Objectives</small></p>																						
1.3 Joe wants to see the objectives through the map view.	1. Joe clicks on the 3.1 "Map" button on the main page, it shows a map view of objectives.	<p>Please input objective name... <input type="button" value="Search"/></p> <p><input type="button" value="Add Objective"/> <input type="button" value="List"/> <input checked="" type="button" value="Map"/></p> <p>Objective Relation</p>																						

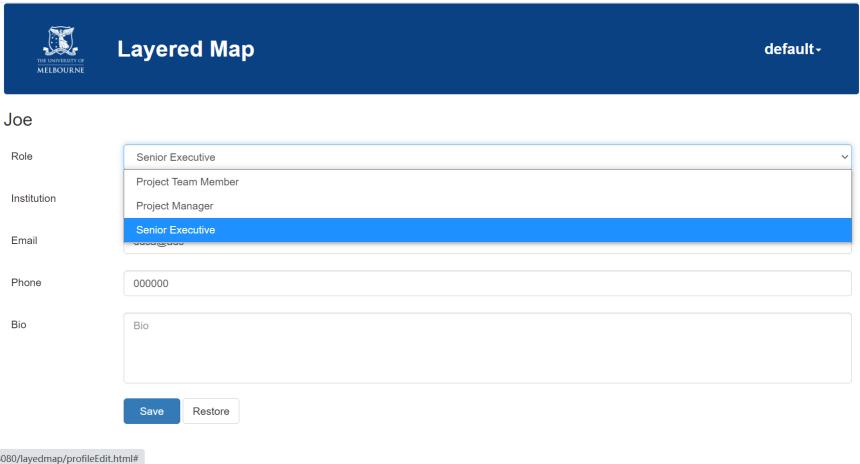
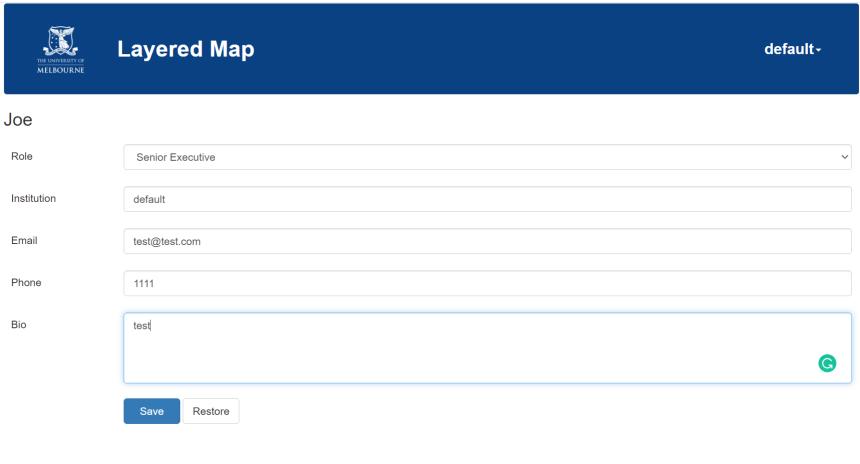
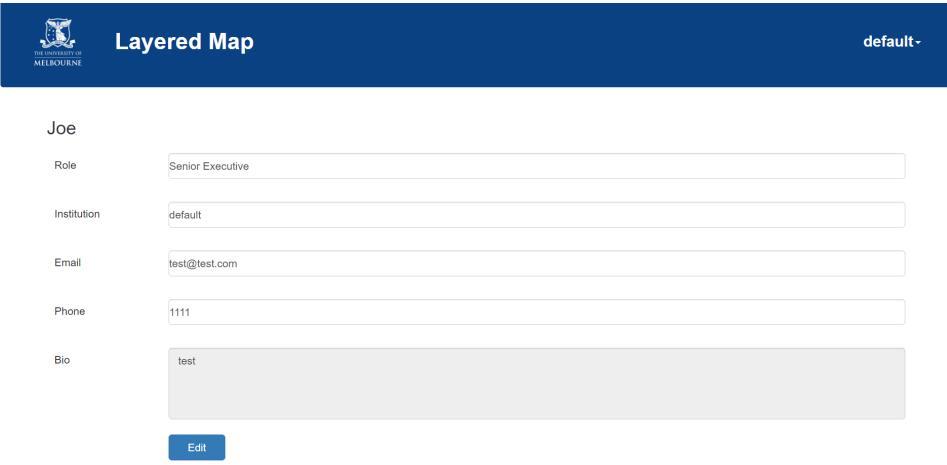
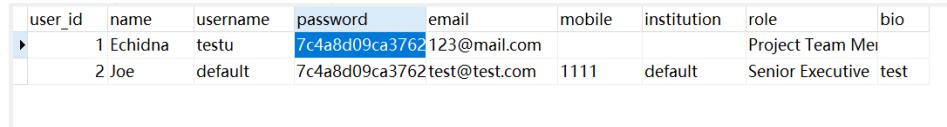
1.4 Joe edits an existing objective	1. Joe clicks on the "Edit" button.	 <p>The screenshot shows the 'Layered Map' application interface. At the top, there's a header with the University of Melbourne logo and a dropdown menu labeled 'default'. Below the header, the page title is 'Layered Map'. The main content area is titled 'Objective' and displays the following information for 'obj_test': <ul style="list-style-type: none"> Tags: obj_test, test Dates: Created: 2020-09-27 19:55:16.0, Last Modified: 2020-09-27 19:55:16.0 Introduction: Introduction, create for testing Sponsors: Sponsors, ABC, cde Team: Team, create for testing Announcements: Announcements, Sponsors Actions: Actions, Team There's also a section for 'Recent Announcement'. </p>																																																																													
1. the page pops up the edit menu, 4.2 Joe edits the information on this objective and clicks on the Save changes button.		 <p>The screenshot shows the 'Layered Map' application interface. A modal dialog box titled 'Edit Objective' is open in the center. It contains fields for Name (obj_test_edit), Introduction (create for testing_edit), Sponsors (ABC, cde, edit), and Tags (test, edit). Below the fields are buttons for 'Save changes' and 'Close'. The background shows the same objective details as the previous screenshot, with 'Created' and 'Last Modified' times updated to reflect the edit.</p>																																																																													
1. The page pops up the "Success" menu. 4.3 Through the Sourcetree, Joe can see the information was edited successfully.		 <p>The screenshot shows the 'Layered Map' application interface. A modal dialog box titled 'Edit Objective' is open, showing the same edited information as the previous screenshot. Overlaid on this is a smaller 'Success' message box with the text 'Objective updated' and an 'OK' button. The background shows the objective details with the updated information.</p>  <p>A screenshot of a database table titled '开始任务' (Start Task). The table has columns: objective_id, name, introduction, sponsors, createTime, lastModifiedTime, and tags. The data includes rows for various objectives, such as 'objective1' through 'objective10', with their respective details and timestamps. The last row, '10 obj_test_edit', corresponds to the edited objective from the previous screenshots.</p> <table border="1"> <thead> <tr> <th>objective_id</th> <th>name</th> <th>introduction</th> <th>sponsors</th> <th>createTime</th> <th>lastModifiedTime</th> <th>tags</th> </tr> </thead> <tbody> <tr><td>1</td><td>objective1</td><td>kuy</td><td>j56</td><td>2020-09-16 12:0</td><td>2020-09-16 12:0</td><td>art,education</td></tr> <tr><td>2</td><td>objective1</td><td>123</td><td>123</td><td>2020-09-20 21:2</td><td>2020-09-20 21:2</td><td>education</td></tr> <tr><td>3</td><td>objective2</td><td>Los oif kal coals yorta yorta</td><td>(</td><td>2020-09-20 21:2</td><td>2020-09-26 19:0</td><td>education,region</td></tr> <tr><td>4</td><td>objective3</td><td>321</td><td>321</td><td>2020-09-20 21:2</td><td>2020-09-20 21:2</td><td>education,finance</td></tr> <tr><td>5</td><td>objective4</td><td>321</td><td>321</td><td>2020-09-20 21:2</td><td>2020-09-20 21:2</td><td>finance</td></tr> <tr><td>6</td><td>objective5</td><td>321</td><td>321</td><td>2020-09-20 21:2</td><td>2020-09-20 21:2</td><td>art,education</td></tr> <tr><td>7</td><td>objective22</td><td>321</td><td>321</td><td>2020-09-20 21:2</td><td>2020-09-20 21:2</td><td>art</td></tr> <tr><td>8</td><td>objective6</td><td>321</td><td>321</td><td>2020-09-27 02:5</td><td>2020-09-27 02:5</td><td>art</td></tr> <tr><td>9</td><td>objective7</td><td>321</td><td>321</td><td>2020-09-27 04:1</td><td>2020-09-27 04:1</td><td>art</td></tr> <tr><td>10</td><td>obj_test_edit</td><td>for testing_edit</td><td>ABC, cde, ed</td><td>2020-09-27 19:5</td><td>2020-09-27 20:5</td><td>test, edit</td></tr> </tbody> </table>	objective_id	name	introduction	sponsors	createTime	lastModifiedTime	tags	1	objective1	kuy	j56	2020-09-16 12:0	2020-09-16 12:0	art,education	2	objective1	123	123	2020-09-20 21:2	2020-09-20 21:2	education	3	objective2	Los oif kal coals yorta yorta	(2020-09-20 21:2	2020-09-26 19:0	education,region	4	objective3	321	321	2020-09-20 21:2	2020-09-20 21:2	education,finance	5	objective4	321	321	2020-09-20 21:2	2020-09-20 21:2	finance	6	objective5	321	321	2020-09-20 21:2	2020-09-20 21:2	art,education	7	objective22	321	321	2020-09-20 21:2	2020-09-20 21:2	art	8	objective6	321	321	2020-09-27 02:5	2020-09-27 02:5	art	9	objective7	321	321	2020-09-27 04:1	2020-09-27 04:1	art	10	obj_test_edit	for testing_edit	ABC, cde, ed	2020-09-27 19:5	2020-09-27 20:5	test, edit
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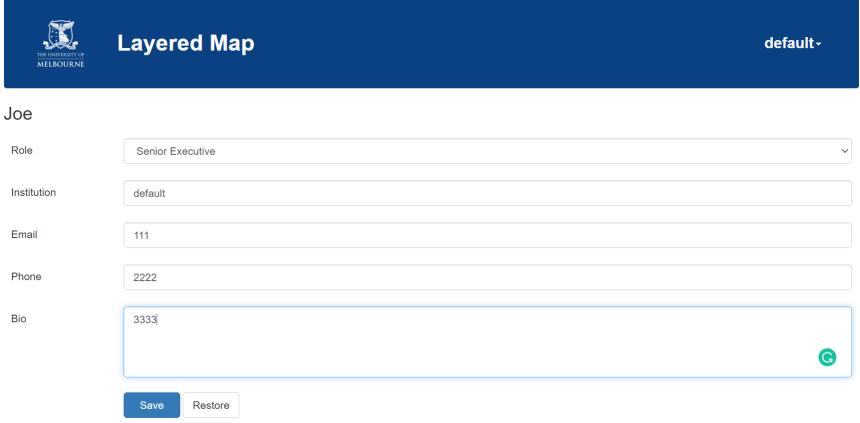
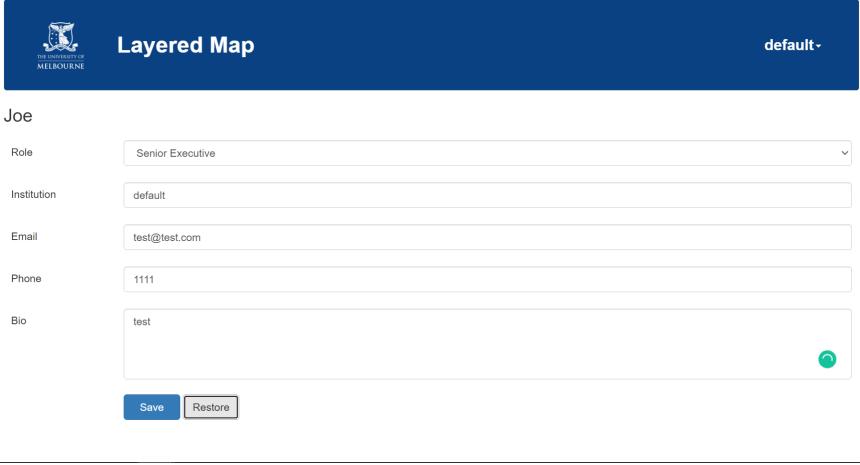
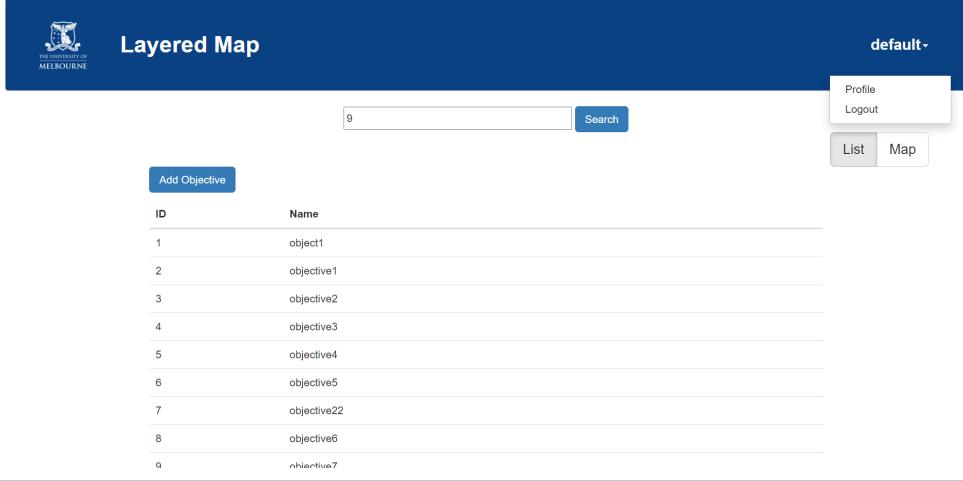
1.5 Joe posts an announcement for an objective.	5.1 Joe clicks on the "Post Announcement" button.																																									
	5.2 Joe inputs " Post announcement" in the box, and clicks on the "post" button.																																									
	5.3 The page pops up a "success" window.																																									
	5.4 Check the database, Joe can see the announcement was updated successfully.	<table border="1" data-bbox="445 1600 894 1854"> <thead> <tr> <th>announcement_id</th> <th>user_id</th> <th>objective_id</th> <th>content</th> </tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>1</td><td>3 Scope change! fh</td></tr> <tr><td>2</td><td>1</td><td>1</td><td>3 Pemerintah Austr</td></tr> <tr><td>3</td><td>1</td><td>1</td><td>3 Health Minister Ju</td></tr> <tr><td>4</td><td>1</td><td>1</td><td>2</td></tr> <tr><td>5</td><td>2</td><td>1</td><td>10 Post Announcem</td></tr> <tr><td>6</td><td>2</td><td>1</td><td>10 Post Announcem</td></tr> <tr><td>7</td><td>2</td><td>1</td><td>10 Post Announcem</td></tr> <tr><td>8</td><td>2</td><td>1</td><td>10 Post Announcem</td></tr> <tr><td>9</td><td>2</td><td>1</td><td>10 Post Announcem</td></tr> </tbody> </table>	announcement_id	user_id	objective_id	content	1	1	1	3 Scope change! fh	2	1	1	3 Pemerintah Austr	3	1	1	3 Health Minister Ju	4	1	1	2	5	2	1	10 Post Announcem	6	2	1	10 Post Announcem	7	2	1	10 Post Announcem	8	2	1	10 Post Announcem	9	2	1	10 Post Announcem
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1.6 Joe link two Objective s.	1. 6.1 Joe clicks on the "Link other Objectives" button.	 <p>The screenshot shows the 'Layered Map' interface. At the top right, there is a 'default-' dropdown menu. Below it, a row of buttons includes 'Edit' (green), 'Post Announcement' (blue), 'Create Action' (light blue), and 'Link Other Objectives' (light blue). The main area is titled 'Objective' and contains several sections: 'Tags', 'Dates', 'Introduction', 'Sponsors', 'Team', 'Announcements', and 'Actions'. Each section has a small 'test / edit' link next to it. On the far right, there are buttons for 'Post Announcement', 'Create Action', and 'Link Other Objectives'.</p>
	1. 6.2 the page pops up a "Link other objective" menu, input object1 and click the "Save Change" button.	 <p>The screenshot shows a 'Link Other Objective' dialog box. It has a text input field labeled 'Objective Name' containing 'object1'. Below the input field are 'Save changes' and 'Close' buttons. In the background, the 'Layered Map' interface is visible with the 'Introduction' section selected. The 'Introduction' section contains the text 'create for testing_edit'.</p>
	1. 6.3 The page pops up the "Objective linked" window.	 <p>The screenshot shows a 'Link Other Objective' dialog box. It has a text input field labeled 'Objective Name' containing 'object1'. Below the input field are 'Save changes' and 'Close' buttons. A 'Success' message window is overlaid on the background, stating 'Objective linked' with an 'OK' button. In the background, the 'Layered Map' interface is visible with the 'Introduction' section selected. The 'Introduction' section contains the text 'create for testing_edit'.</p>

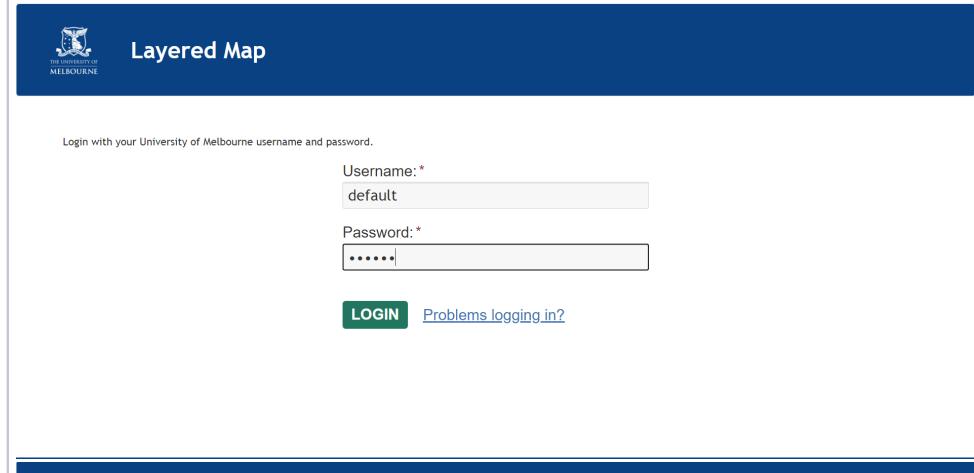
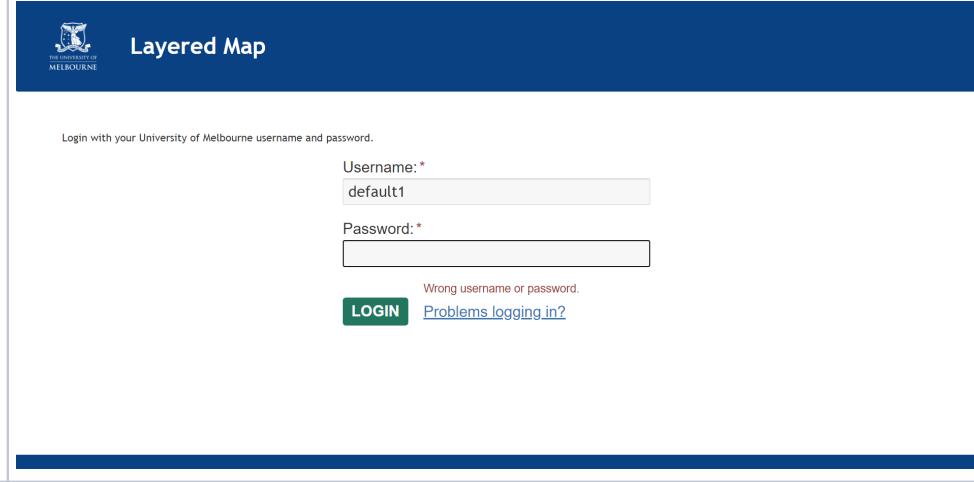
	6.4	Check the Database, Joe can see the link was added successfully.	 <table border="1"> <thead> <tr> <th>id</th><th>objective1_id</th><th>objective2_id</th><th>category</th></tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>2</td><td>(Null)</td></tr> <tr><td>2</td><td>2</td><td>3</td><td>(Null)</td></tr> <tr><td>3</td><td>1</td><td>3</td><td>(Null)</td></tr> <tr><td>4</td><td>2</td><td>4</td><td>(Null)</td></tr> <tr><td>5</td><td>3</td><td>5</td><td>(Null)</td></tr> <tr><td>6</td><td>7</td><td>3</td><td>(Null)</td></tr> <tr><td>7</td><td>4</td><td>1</td><td>(Null)</td></tr> <tr><td>8</td><td>1</td><td>10</td><td>(Null)</td></tr> </tbody> </table>	id	objective1_id	objective2_id	category	1	1	2	(Null)	2	2	3	(Null)	3	1	3	(Null)	4	2	4	(Null)	5	3	5	(Null)	6	7	3	(Null)	7	4	1	(Null)	8	1	10	(Null)
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8	1	10	(Null)																																				
1.7 Joe searches objectives by keywords	7.1	Joe inputs "2" int the search box, and clicks on the "Search" button.	 <p>Layered Map</p> <p>default-</p> <p>2 <input type="button" value="Search"/></p> <p>Add Objective</p> <table border="1"> <thead> <tr> <th>ID</th> <th>Name</th> </tr> </thead> <tbody> <tr><td>1</td><td>object1</td></tr> <tr><td>2</td><td>objective1</td></tr> <tr><td>3</td><td>objective2</td></tr> <tr><td>4</td><td>objective3</td></tr> <tr><td>5</td><td>objective4</td></tr> <tr><td>6</td><td>objective5</td></tr> <tr><td>7</td><td>objective22</td></tr> <tr><td>8</td><td>objective6</td></tr> <tr><td>9</td><td>objective7</td></tr> </tbody> </table> <p>List Map</p>	ID	Name	1	object1	2	objective1	3	objective2	4	objective3	5	objective4	6	objective5	7	objective22	8	objective6	9	objective7																
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	7.2	Joe can see objective3 and objective7 which contain keywords "2" in their name listed on the page.	 <p>Layered Map</p> <p>default-</p> <p>2 <input type="button" value="Search"/></p> <p>Add Objective</p> <table border="1"> <thead> <tr> <th>ID</th> <th>Name</th> </tr> </thead> <tbody> <tr><td>3</td><td>objective2</td></tr> <tr><td>7</td><td>objective22</td></tr> </tbody> </table> <p>List Map</p>	ID	Name	3	objective2	7	objective22																														
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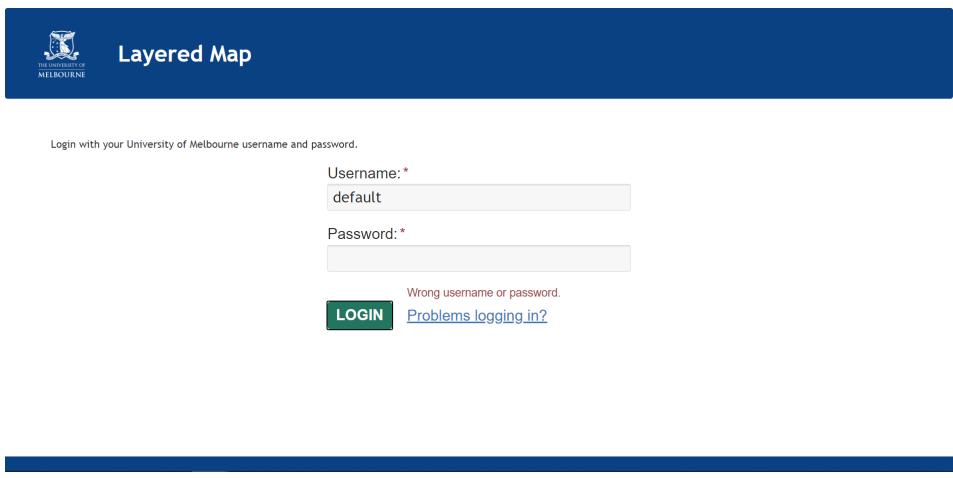
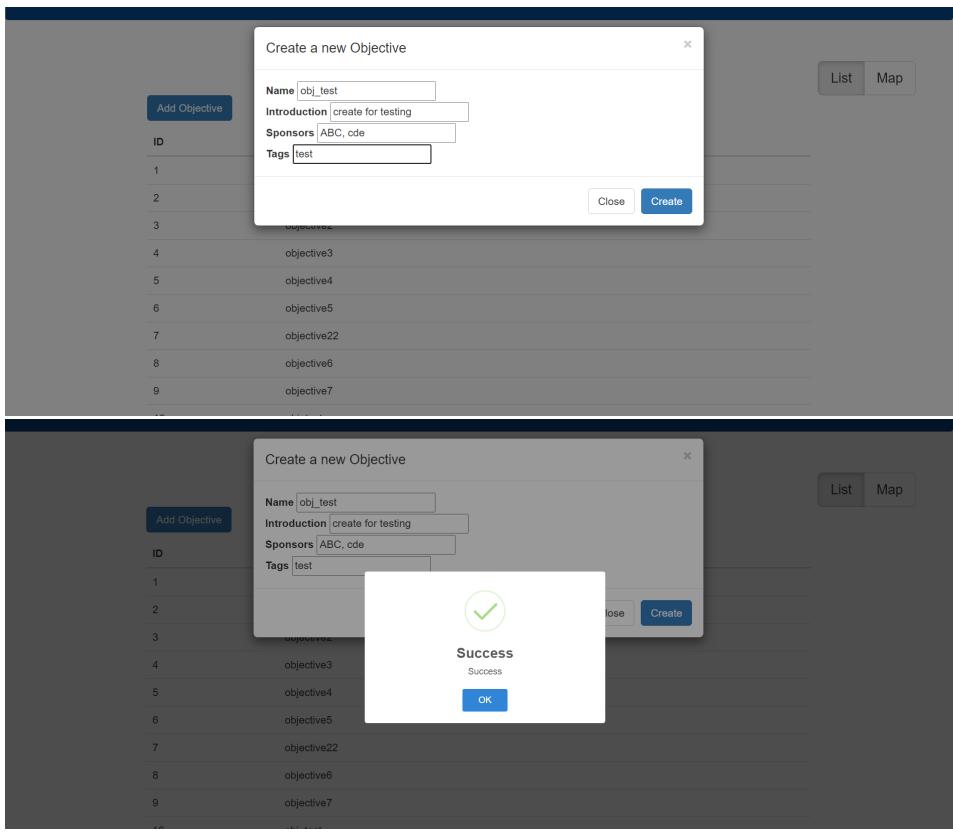
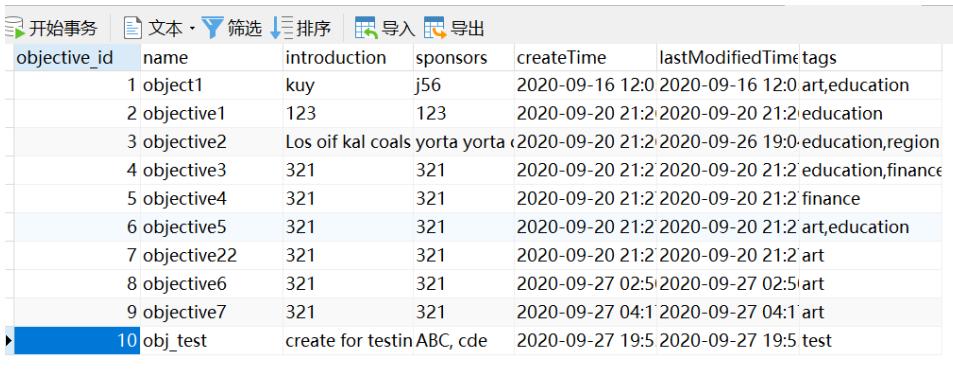
	1. 7.3 Joe inputs "9" int the search box, and clicks on the "Search" button. It shows nothing on the page.	
2.1 Joe edits user profile	2. 1.1 Joe clicks on the username "default" button, it pops up the "Profile" button, then clicks on it.	
	2. 1.2 It jumps to the edit page, click on the "edit" button.	

	2. 1.3 Click on the role button, Joe can choose three role options.	
	2. 1.4 Edit the profile change "Email" to test@test.com , "Phone" to "1111", "Bio" to "test", and click on the "Save" button.	
	2. 1.5 the page shows the profile after editing.	
	2. 1.6 Check the database, Joe can see the profile was updated successfully.	

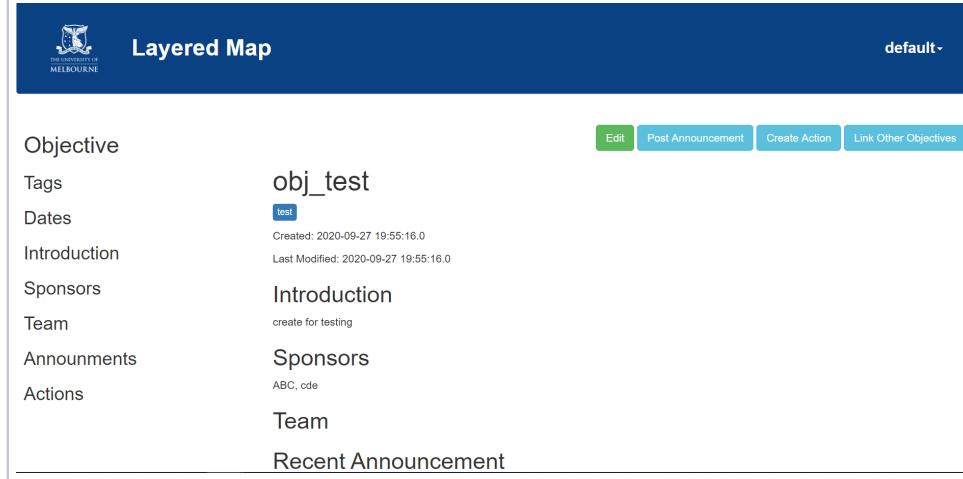
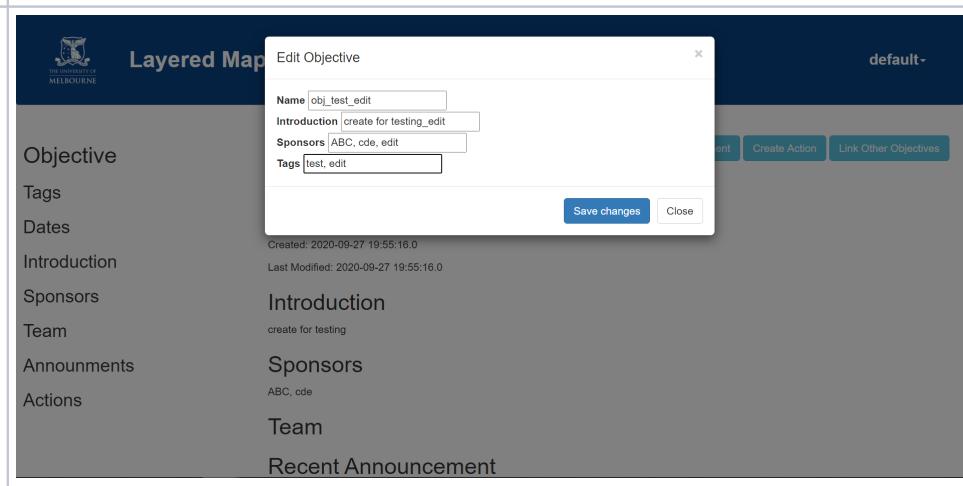
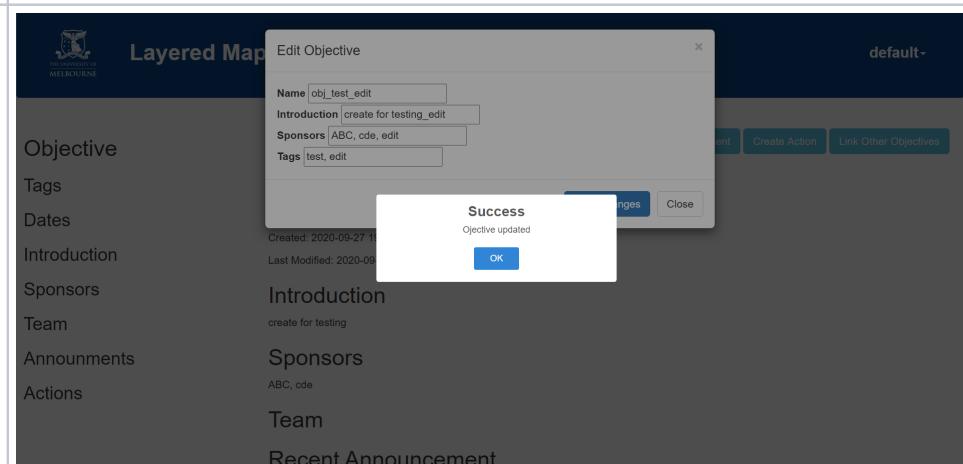
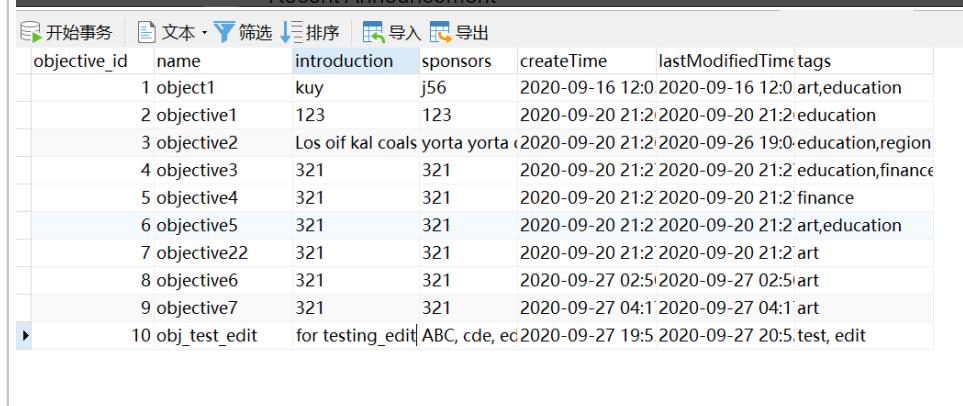
	2.1	Joe edits the profile, then clicks on the "Restore" button.	
	2.2	The information on the page changes back to which before edited.	
3. Log out	3.1	Click on the "Log out" button on the main page.	

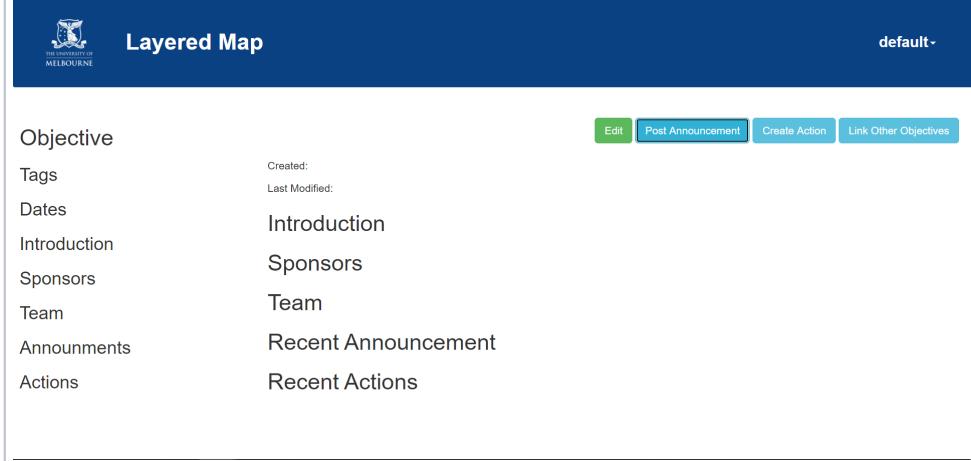
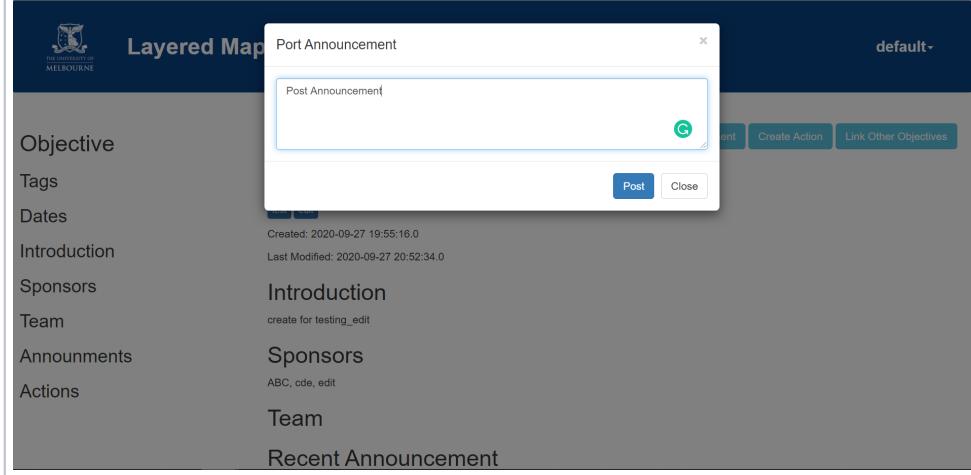
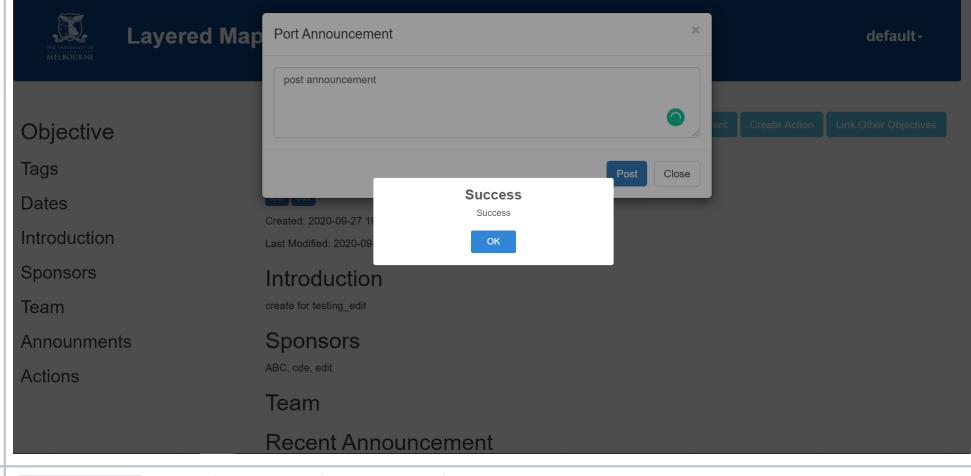
		<p>3.2 The page pops up a "success" window, click on the "OK" button.</p>
		<p>3.3 It jumps to the login page, Joe log out successfully.</p>

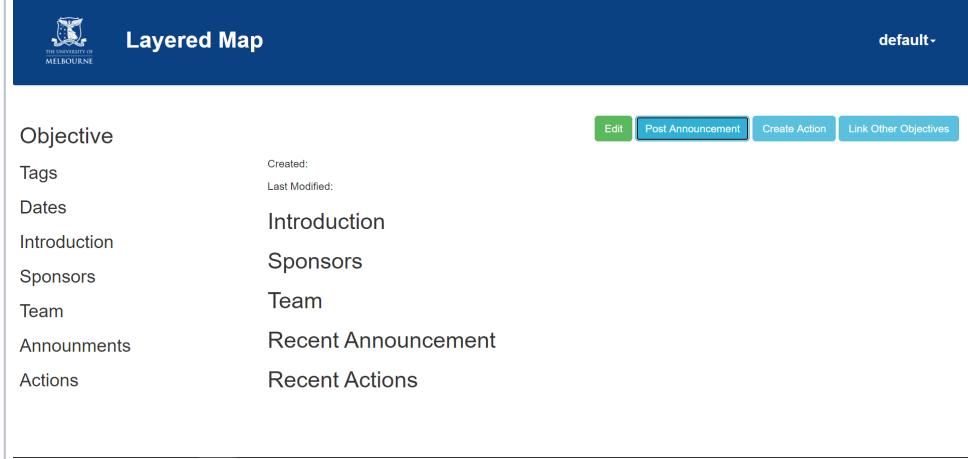
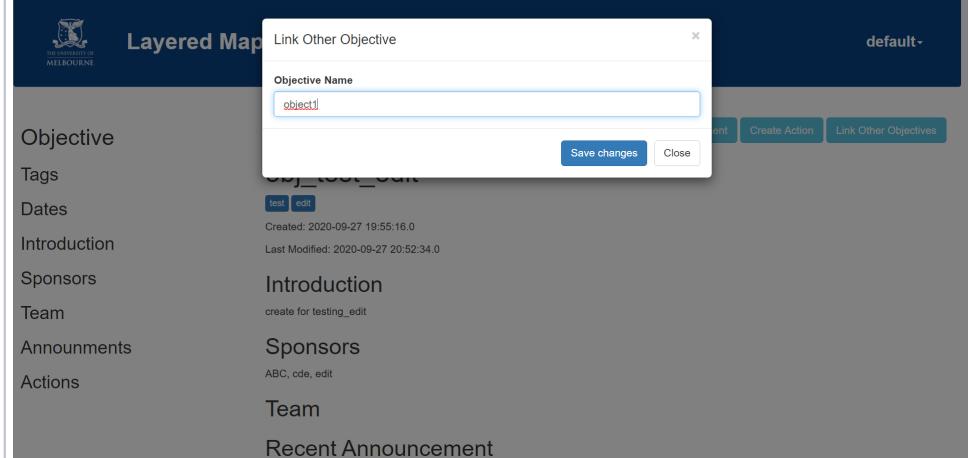
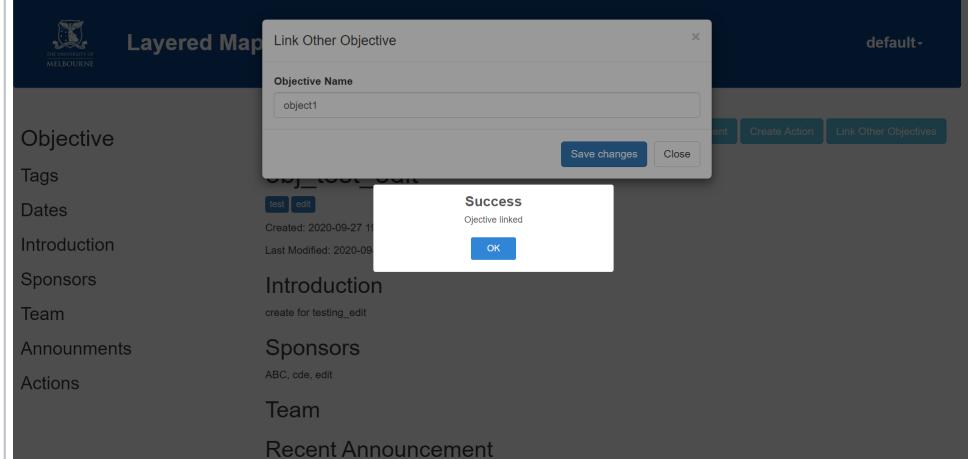
<p>1.1 Joe as the Senior Executive log in the system</p>	<p>1.1 Joe inputs right Username default and Password (123456), clicks on the "LOGIN" button, it jumps to the main page.</p>	
	<p>1.2 Joe inputs wrong username (default1), the page shows "Wrong username or password."</p>	

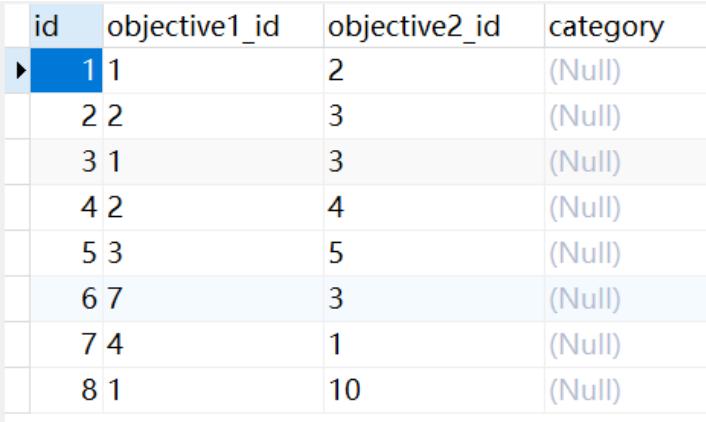
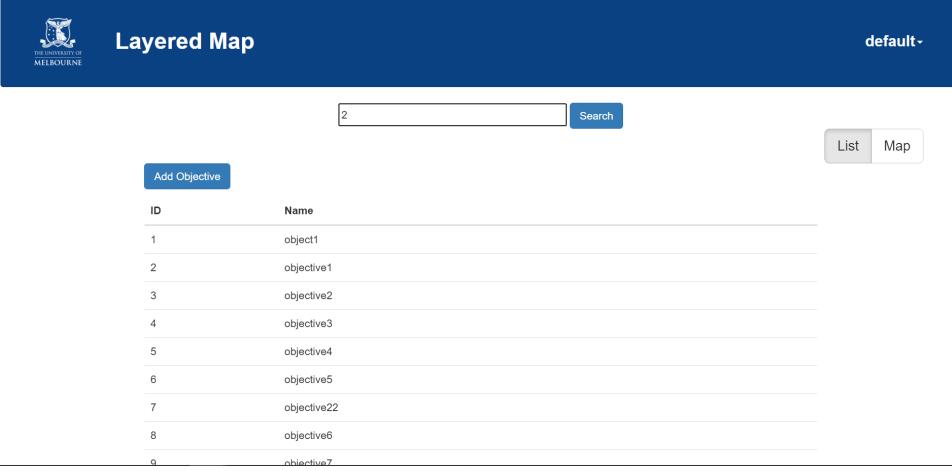
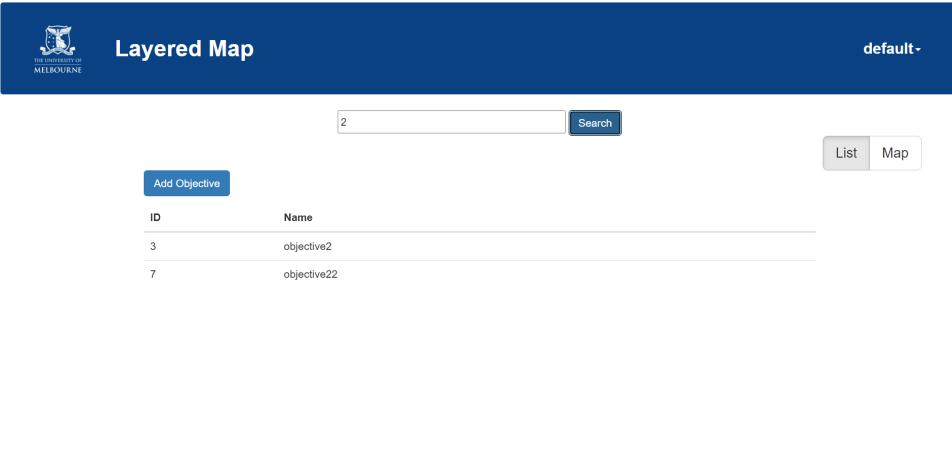
	1.3 Joe inputs wrong password (12345), the page shows "Wrong username or password."	
1.2 Joe creates a new objective	2.1 Joe clicks on the "Add new objective" button, the page pops up the add menu. input Name, Introduction, Sponsors and Tags, click on the "Create" button it pops up the "success" window.	
2.2	Through Sourcetree, Joe can see that new objective (obj_test) was created successfully in the database.	

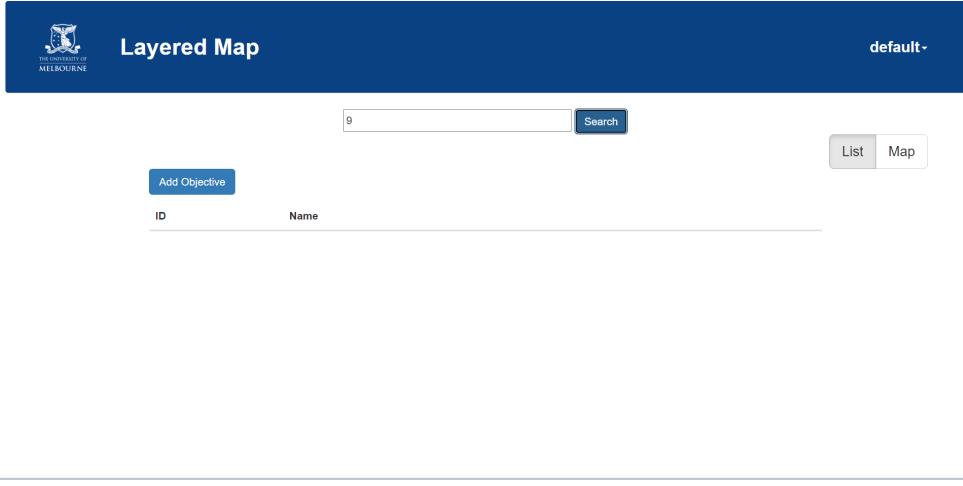
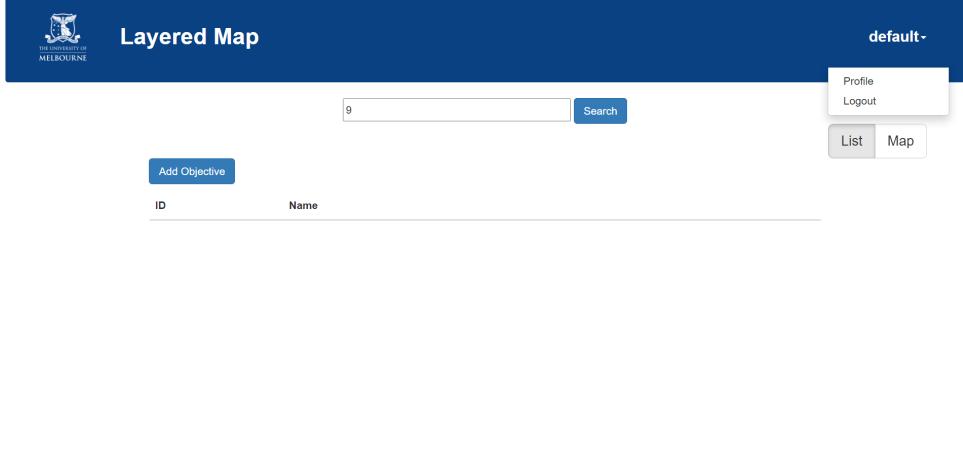
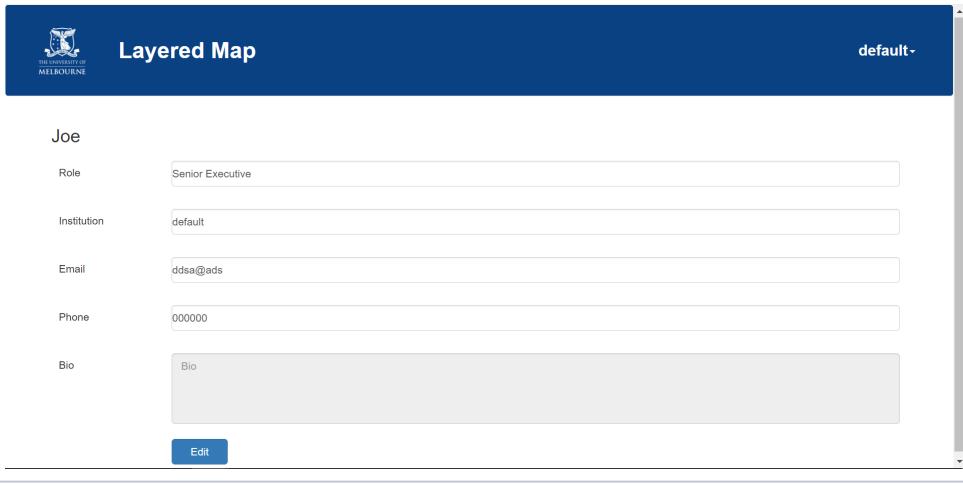
	1. Joe goes back on 2.3 the main page, the new objective (obj_test) is listed at the bottom of this page.	<p>Add Objective</p> <table border="1"> <thead> <tr> <th>ID</th><th>Name</th></tr> </thead> <tbody> <tr><td>1</td><td>object1</td></tr> <tr><td>2</td><td>objective1</td></tr> <tr><td>3</td><td>objective2</td></tr> <tr><td>4</td><td>objective3</td></tr> <tr><td>5</td><td>objective4</td></tr> <tr><td>6</td><td>objective5</td></tr> <tr><td>7</td><td>objective22</td></tr> <tr><td>8</td><td>objective6</td></tr> <tr><td>9</td><td>objective7</td></tr> <tr><td>10</td><td>obj_test</td></tr> </tbody> </table>	ID	Name	1	object1	2	objective1	3	objective2	4	objective3	5	objective4	6	objective5	7	objective22	8	objective6	9	objective7	10	obj_test
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	1. Joe clicks on the 2.4 "obj_test" on the main page, it Jumps to the objective detail page.	<p>Layered Map default-</p> <p>Objective</p> <p>Tags obj_test <small>test</small></p> <p>Dates Created: 2020-09-27 19:55:16.0 Last Modified: 2020-09-27 19:55:16.0</p> <p>Introduction</p> <p>Sponsors</p> <p>Team</p> <p>Announcements</p> <p>Actions</p> <p>Introduction</p> <p><small>create for testing</small></p> <p>Sponsors</p> <p>ABC, cde</p> <p>Team</p> <p>Recent Announcement</p>																						
1.3 Joe wants to see the objectives through the map view.	1. Joe clicks on the 3.1 "Map" button on the main page, it shows a map view of objectives.	<p>Please input objective name... <input type="button" value="Search"/></p> <p><input type="button" value="Add Objective"/> <input type="button" value="List"/> <input checked="" type="button" value="Map"/></p> <p>Objective Relation</p>																						

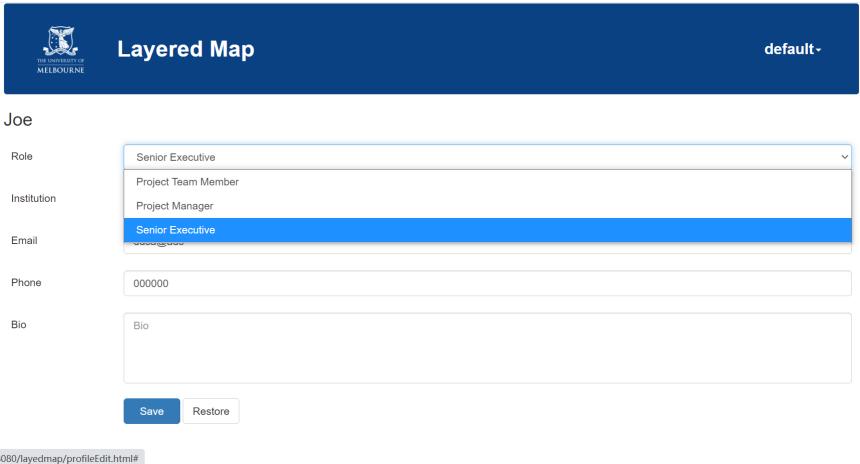
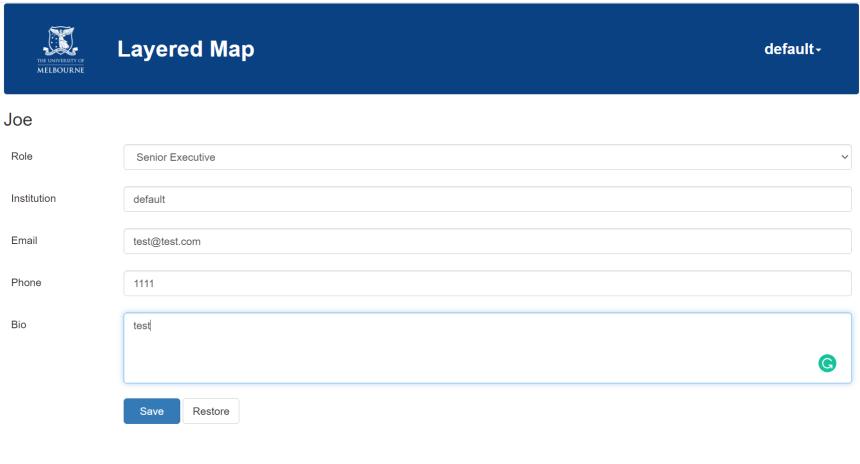
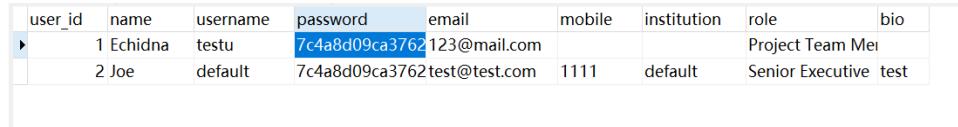
1.4 Joe edits an existing objective	1. Joe clicks on the "Edit" button.	 <p>The screenshot shows the 'Layered Map' application interface. At the top, there's a header with the University of Melbourne logo and a dropdown menu labeled 'default'. Below the header, the page title is 'Layered Map'. The main content area is titled 'Objective' and displays the following information for 'obj_test': <ul style="list-style-type: none"> Tags: obj_test, test Dates: Created: 2020-09-27 19:55:16.0, Last Modified: 2020-09-27 19:55:16.0 Introduction: Introduction, create for testing Sponsors: Sponsors, ABC, cde Team: Team, create for testing Announcements: Announcements, Sponsors Actions: Actions, Team There's also a section for 'Recent Announcement'. </p>																																																																													
1. the page pops up the edit menu, 4.2 Joe edits the information on this objective and clicks on the Save changes button.		 <p>The screenshot shows the 'Layered Map' application interface. A modal dialog box titled 'Edit Objective' is open in the center. It contains fields for Name (obj_test_edit), Introduction (create for testing_edit), Sponsors (ABC, cde, edit), and Tags (test, edit). Below the fields are buttons for 'Save changes' and 'Close'. The background shows the same objective details as the previous screenshot, with 'Created' and 'Last Modified' times updated to reflect the edit.</p>																																																																													
1. The page pops up the "Success" menu. 4.3 Through the Sourcetree, Joe can see the information was edited successfully.		 <p>The screenshot shows the 'Layered Map' application interface. A modal dialog box titled 'Edit Objective' is open, showing the same edited information as the previous screenshot. Overlaid on this is a smaller 'Success' message box with the text 'Objective updated' and an 'OK' button. The background shows the objective details with the updated information.</p>  <p>A screenshot of a database table showing a list of objectives. The columns are: objective_id, name, introduction, sponsors, createTime, lastModifiedTime, and tags. The rows include: <table border="1"> <thead> <tr> <th>objective_id</th> <th>name</th> <th>introduction</th> <th>sponsors</th> <th>createTime</th> <th>lastModifiedTime</th> <th>tags</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>object1</td> <td>kuy</td> <td>j56</td> <td>2020-09-16 12:0</td> <td>2020-09-16 12:0</td> <td>art,education</td> </tr> <tr> <td>2</td> <td>objective1</td> <td>123</td> <td>123</td> <td>2020-09-20 21:2</td> <td>2020-09-20 21:2</td> <td>education</td> </tr> <tr> <td>3</td> <td>objective2</td> <td>Los oif kal coals yorta yorta</td> <td>(redacted)</td> <td>2020-09-20 21:2</td> <td>2020-09-26 19:0</td> <td>education,region</td> </tr> <tr> <td>4</td> <td>objective3</td> <td>321</td> <td>321</td> <td>2020-09-20 21:2</td> <td>2020-09-20 21:2</td> <td>education,finance</td> </tr> <tr> <td>5</td> <td>objective4</td> <td>321</td> <td>321</td> <td>2020-09-20 21:2</td> <td>2020-09-20 21:2</td> <td>finance</td> </tr> <tr> <td>6</td> <td>objective5</td> <td>321</td> <td>321</td> <td>2020-09-20 21:2</td> <td>2020-09-20 21:2</td> <td>art,education</td> </tr> <tr> <td>7</td> <td>objective22</td> <td>321</td> <td>321</td> <td>2020-09-20 21:2</td> <td>2020-09-20 21:2</td> <td>art</td> </tr> <tr> <td>8</td> <td>objective6</td> <td>321</td> <td>321</td> <td>2020-09-27 02:5</td> <td>2020-09-27 02:5</td> <td>art</td> </tr> <tr> <td>9</td> <td>objective7</td> <td>321</td> <td>321</td> <td>2020-09-27 04:1</td> <td>2020-09-27 04:1</td> <td>art</td> </tr> <tr> <td>10</td> <td>obj_test_edit</td> <td>for testing_edit</td> <td>ABC, cde, ed</td> <td>2020-09-27 19:5</td> <td>2020-09-27 20:5</td> <td>test, edit</td> </tr> </tbody> </table> </p>	objective_id	name	introduction	sponsors	createTime	lastModifiedTime	tags	1	object1	kuy	j56	2020-09-16 12:0	2020-09-16 12:0	art,education	2	objective1	123	123	2020-09-20 21:2	2020-09-20 21:2	education	3	objective2	Los oif kal coals yorta yorta	(redacted)	2020-09-20 21:2	2020-09-26 19:0	education,region	4	objective3	321	321	2020-09-20 21:2	2020-09-20 21:2	education,finance	5	objective4	321	321	2020-09-20 21:2	2020-09-20 21:2	finance	6	objective5	321	321	2020-09-20 21:2	2020-09-20 21:2	art,education	7	objective22	321	321	2020-09-20 21:2	2020-09-20 21:2	art	8	objective6	321	321	2020-09-27 02:5	2020-09-27 02:5	art	9	objective7	321	321	2020-09-27 04:1	2020-09-27 04:1	art	10	obj_test_edit	for testing_edit	ABC, cde, ed	2020-09-27 19:5	2020-09-27 20:5	test, edit
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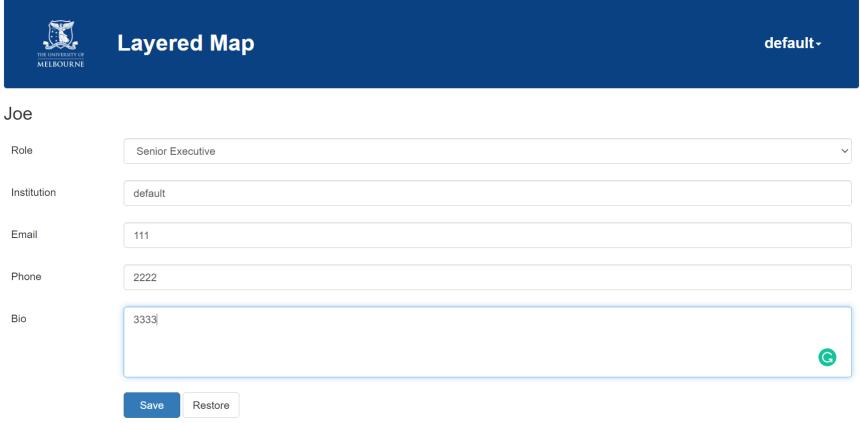
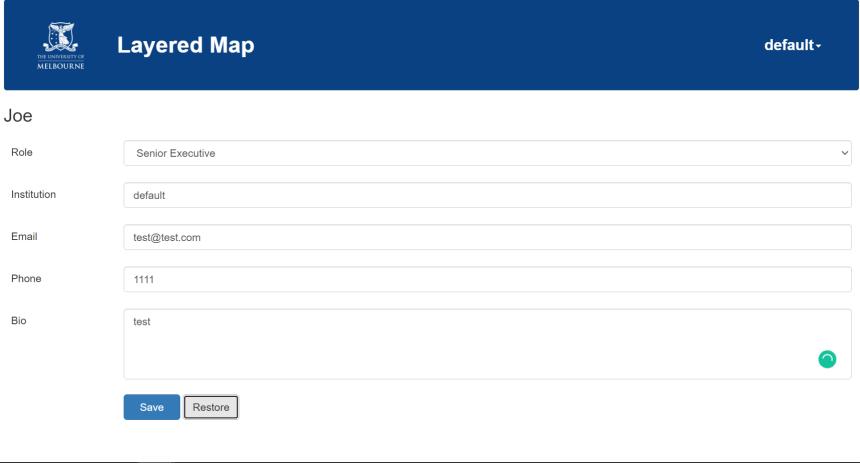
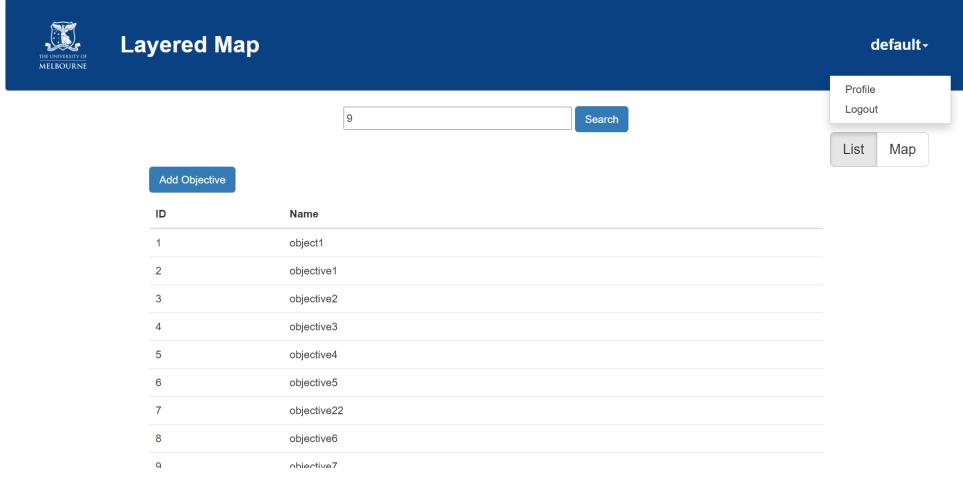
1.5 Joe posts an announcement for an objective.	5.1 Joe clicks on the "Post Announcement" button.	 <p>The screenshot shows the 'Layered Map' interface with a dark blue header. In the top right corner, there is a dropdown menu labeled 'default'. Below the header, there is a section titled 'Objective' with several categories: Tags, Dates, Introduction, Sponsors, Team, Announcements, and Actions. At the bottom right of the main area, there are four buttons: 'Edit', 'Post Announcement' (which is highlighted in blue), 'Create Action', and 'Link Other Objectives'. A green circular icon with a white letter 'G' is visible on the right side of the page.</p>																																								
	5.2 Joe inputs "Post announcement" in the box, and clicks on the "post" button.	 <p>The screenshot shows a modal dialog box titled 'Post Announcement'. Inside the dialog, there is a text input field containing the text 'Post Announcement'. At the bottom right of the dialog are two buttons: 'Post' (highlighted in blue) and 'Close'. The background of the main interface is dimmed.</p>																																								
	5.3 The page pops up a "success" window.	 <p>The screenshot shows a modal dialog box titled 'Success'. Inside the dialog, the word 'Success' is displayed above a small message. At the bottom right of the dialog is a blue 'OK' button. The background of the main interface is dimmed.</p>																																								
	5.4 Check the database, Joe can see the announcement was updated successfully.	<table border="1" data-bbox="445 1607 894 1854"> <thead> <tr> <th>announcement_id</th> <th>user_id</th> <th>objective_id</th> <th>content</th> </tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>1</td><td>3 Scope change! fh</td></tr> <tr><td>2</td><td>1</td><td>1</td><td>3 Pemerintah Austr</td></tr> <tr><td>3</td><td>1</td><td>1</td><td>3 Health Minister Ju</td></tr> <tr><td>4</td><td>1</td><td>1</td><td>2</td></tr> <tr><td>5</td><td>2</td><td>1</td><td>10 Post Announcem</td></tr> <tr><td>6</td><td>2</td><td>1</td><td>10 Post Announcem</td></tr> <tr><td>7</td><td>2</td><td>1</td><td>10 Post Announcem</td></tr> <tr><td>8</td><td>2</td><td>1</td><td>10 Post Announcem</td></tr> <tr><td>9</td><td>2</td><td>1</td><td>10 Post Announcem</td></tr> </tbody> </table>	announcement_id	user_id	objective_id	content	1	1	1	3 Scope change! fh	2	1	1	3 Pemerintah Austr	3	1	1	3 Health Minister Ju	4	1	1	2	5	2	1	10 Post Announcem	6	2	1	10 Post Announcem	7	2	1	10 Post Announcem	8	2	1	10 Post Announcem	9	2	1	10 Post Announcem
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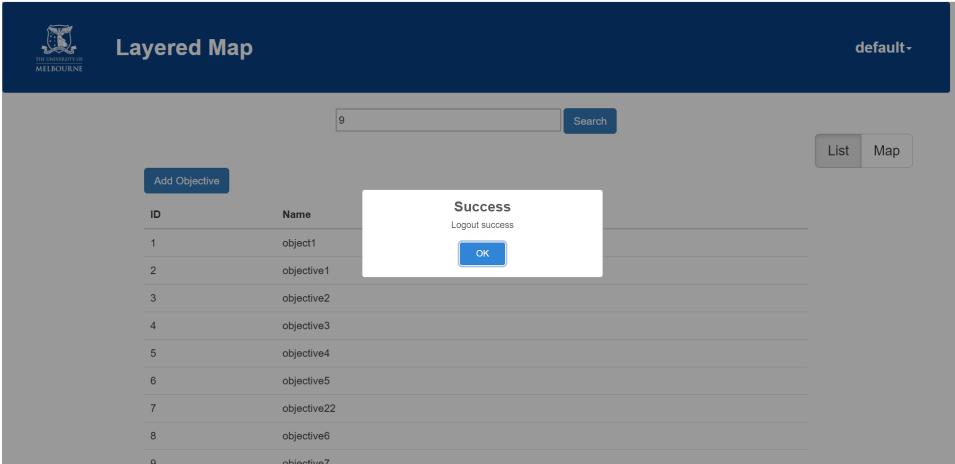
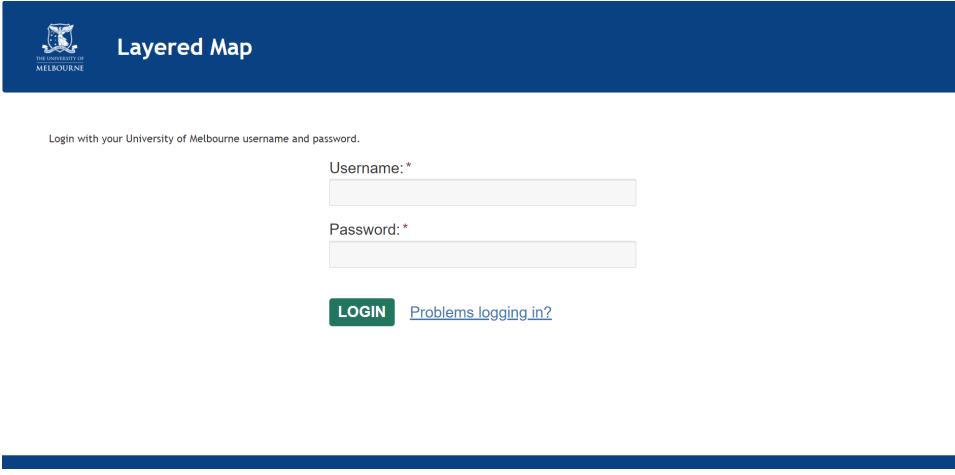
1.6 Joe link two Objective s.	1. 6.1 Joe clicks on the "Link other Objectives" button.	
	1. 6.2 the page pops up a "Link other objective" menu, input object1 and click the "Save Change" button.	
	1. 6.3 The page pops up the "Objective linked" window.	

	6.4	Check the Database, Joe can see the link was added successfully.	 <table border="1"> <thead> <tr> <th>id</th><th>objective1_id</th><th>objective2_id</th><th>category</th></tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>2</td><td>(Null)</td></tr> <tr><td>2</td><td>2</td><td>3</td><td>(Null)</td></tr> <tr><td>3</td><td>1</td><td>3</td><td>(Null)</td></tr> <tr><td>4</td><td>2</td><td>4</td><td>(Null)</td></tr> <tr><td>5</td><td>3</td><td>5</td><td>(Null)</td></tr> <tr><td>6</td><td>7</td><td>3</td><td>(Null)</td></tr> <tr><td>7</td><td>4</td><td>1</td><td>(Null)</td></tr> <tr><td>8</td><td>1</td><td>10</td><td>(Null)</td></tr> </tbody> </table>	id	objective1_id	objective2_id	category	1	1	2	(Null)	2	2	3	(Null)	3	1	3	(Null)	4	2	4	(Null)	5	3	5	(Null)	6	7	3	(Null)	7	4	1	(Null)	8	1	10	(Null)
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8	1	10	(Null)																																				
1.7 Joe searches objectives by keywords	7.1	Joe inputs "2" int the search box, and clicks on the "Search" button.	 <p>Layered Map</p> <p>default-</p> <p>2 <input type="button" value="Search"/></p> <p>Add Objective</p> <table border="1"> <thead> <tr> <th>ID</th> <th>Name</th> </tr> </thead> <tbody> <tr><td>1</td><td>object1</td></tr> <tr><td>2</td><td>objective1</td></tr> <tr><td>3</td><td>objective2</td></tr> <tr><td>4</td><td>objective3</td></tr> <tr><td>5</td><td>objective4</td></tr> <tr><td>6</td><td>objective5</td></tr> <tr><td>7</td><td>objective22</td></tr> <tr><td>8</td><td>objective6</td></tr> <tr><td>9</td><td>objective7</td></tr> </tbody> </table> <p>List Map</p>	ID	Name	1	object1	2	objective1	3	objective2	4	objective3	5	objective4	6	objective5	7	objective22	8	objective6	9	objective7																
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	7.2	Joe can see objective3 and objective7 which contain keywords "2" in their name listed on the page.	 <p>Layered Map</p> <p>default-</p> <p>2 <input type="button" value="Search"/></p> <p>Add Objective</p> <table border="1"> <thead> <tr> <th>ID</th> <th>Name</th> </tr> </thead> <tbody> <tr><td>3</td><td>objective2</td></tr> <tr><td>7</td><td>objective22</td></tr> </tbody> </table> <p>List Map</p>	ID	Name	3	objective2	7	objective22																														
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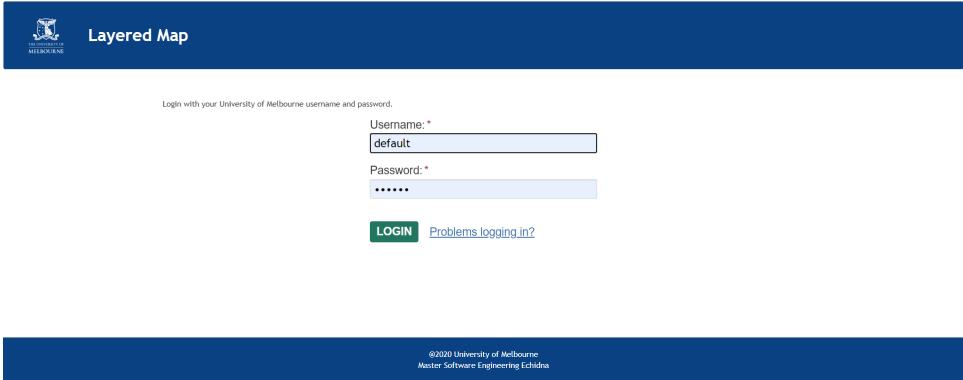
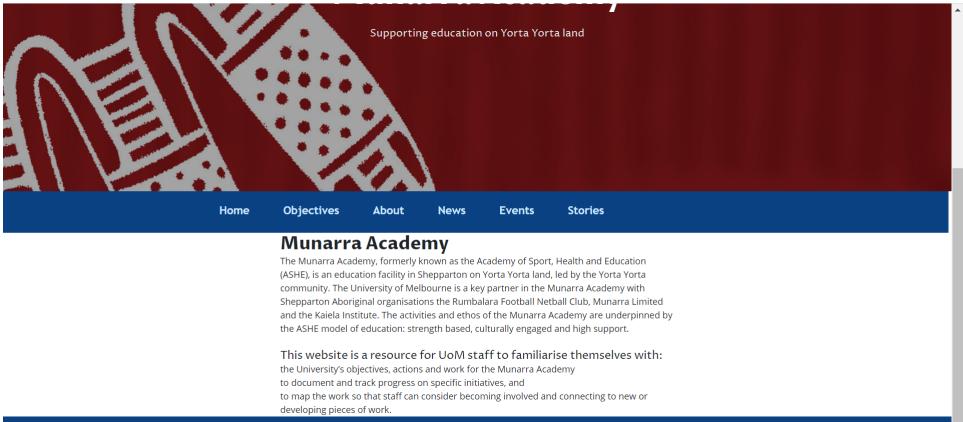
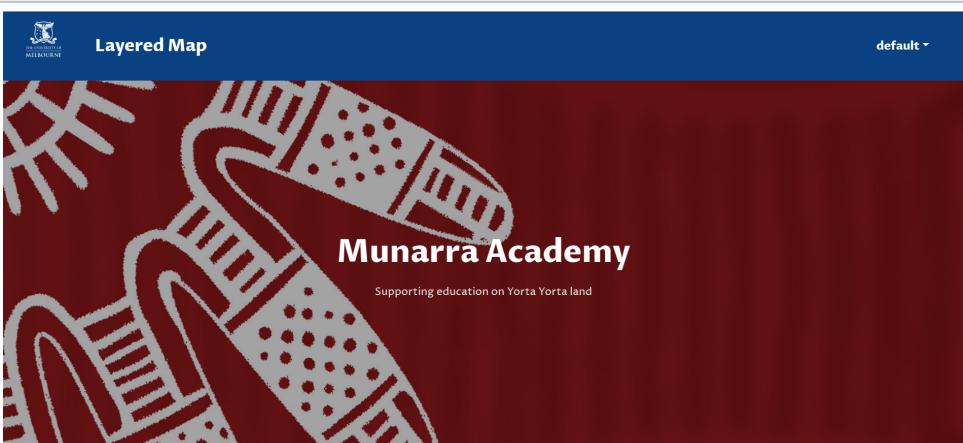
	1. 7.3 Joe inputs "9" int the search box, and clicks on the "Search" button. It shows nothing on the page.	
2.1 Joe edits user profile	2. 1.1 Joe clicks on the username "default" button, it pops up the "Profile" button, then clicks on it.	
	2. 1.2 It jumps to the edit page, click on the "edit" button.	

	2. 1.3 Click on the role button, Joe can choose three role options.	
	2. 1.4 Edit the profile change "Email" to test@test.com , "Phone" to "1111", "Bio" to "test", and click on the "Save" button.	
	2. 1.5 the page shows the profile after editing.	
	2. 1.6 Check the database, Joe can see the profile was updated successfully.	

	2.1	Joe edits the profile, then clicks on the "Restore" button.																					
	2.2	The information on the page changes back to which before edited.																					
3. Log out	3.1	Click on the "Log out" button on the main page.	 <table border="1" data-bbox="600 1326 1286 1594"> <thead> <tr> <th>ID</th> <th>Name</th> </tr> </thead> <tbody> <tr><td>1</td><td>object1</td></tr> <tr><td>2</td><td>objective1</td></tr> <tr><td>3</td><td>objective2</td></tr> <tr><td>4</td><td>objective3</td></tr> <tr><td>5</td><td>objective4</td></tr> <tr><td>6</td><td>objective5</td></tr> <tr><td>7</td><td>objective22</td></tr> <tr><td>8</td><td>objective6</td></tr> <tr><td>9</td><td>objective7</td></tr> </tbody> </table>	ID	Name	1	object1	2	objective1	3	objective2	4	objective3	5	objective4	6	objective5	7	objective22	8	objective6	9	objective7
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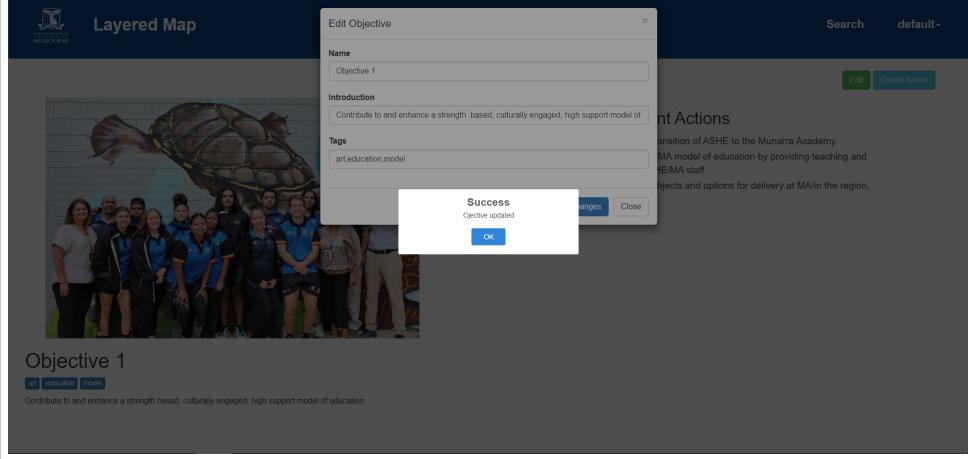
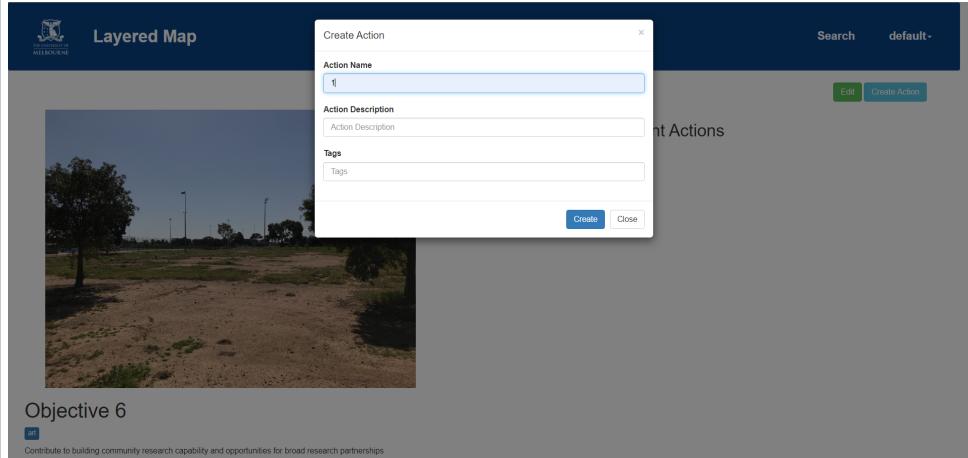
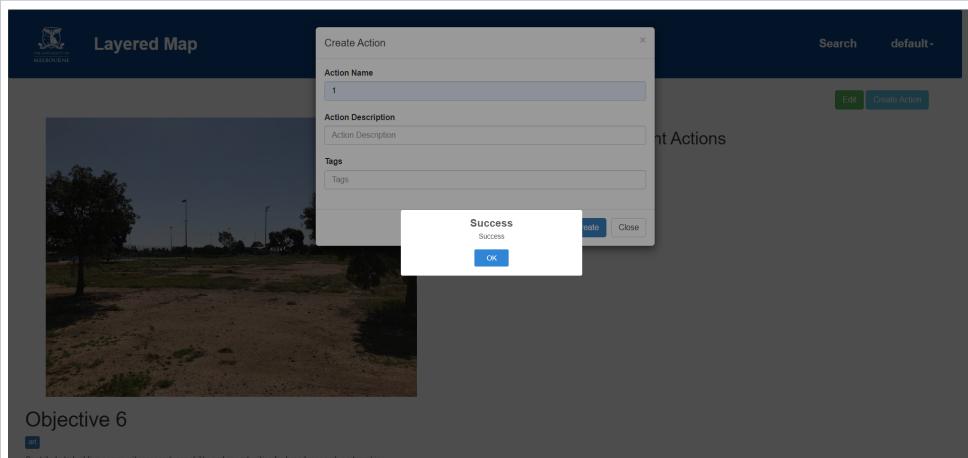
		<p>3.2 The page pops up a "success" window, click on the "OK" button.</p>  <p>The screenshot shows a table with columns for ID and Name. A modal dialog box titled 'Success' is overlaid on the table, containing the message 'Logout success' and an 'OK' button. The table data is as follows:</p> <table border="1"> <thead> <tr> <th>ID</th> <th>Name</th> </tr> </thead> <tbody> <tr><td>1</td><td>objective1</td></tr> <tr><td>2</td><td>objective1</td></tr> <tr><td>3</td><td>objective2</td></tr> <tr><td>4</td><td>objective3</td></tr> <tr><td>5</td><td>objective4</td></tr> <tr><td>6</td><td>objective5</td></tr> <tr><td>7</td><td>objective22</td></tr> <tr><td>8</td><td>objective6</td></tr> <tr><td>9</td><td>objective7</td></tr> </tbody> </table>	ID	Name	1	objective1	2	objective1	3	objective2	4	objective3	5	objective4	6	objective5	7	objective22	8	objective6	9	objective7
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		<p>3.3 It jumps to the login page, Joe log out successfully.</p>  <p>The screenshot shows the login page for the University of Melbourne. It features a logo, the title 'Layered Map', and a login form with fields for 'Username:' and 'Password:', both marked with asterisks. Below the fields are 'LOGIN' and 'Problems logging in?' buttons.</p>																				

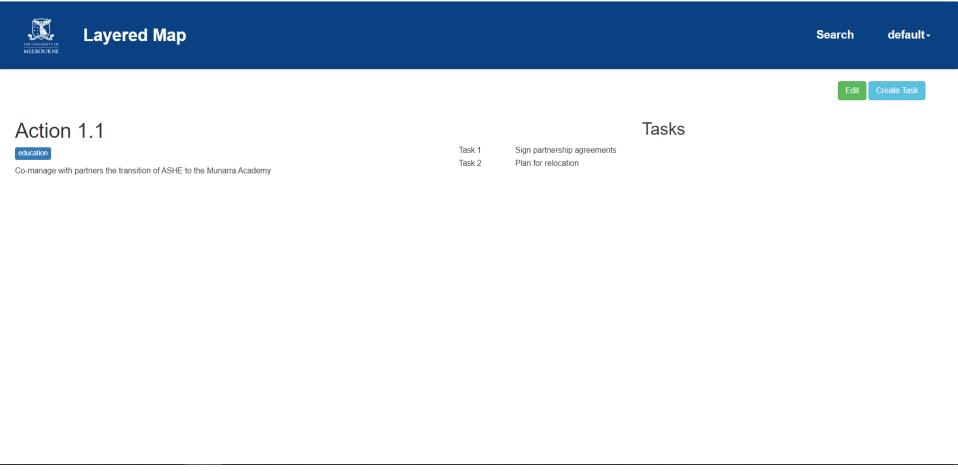
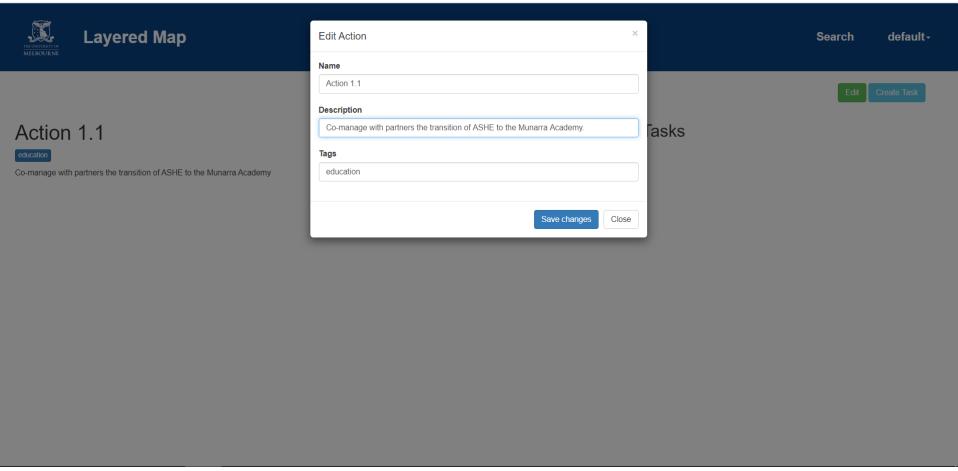
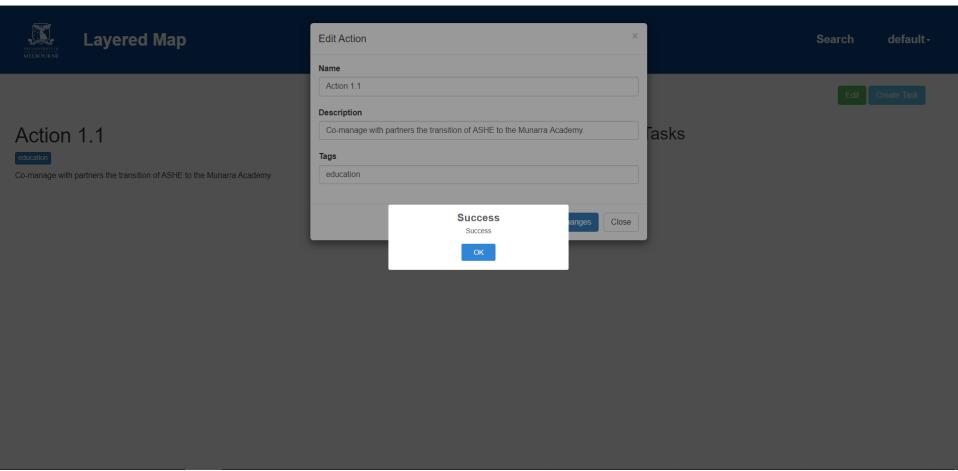
Sprint3 Testing

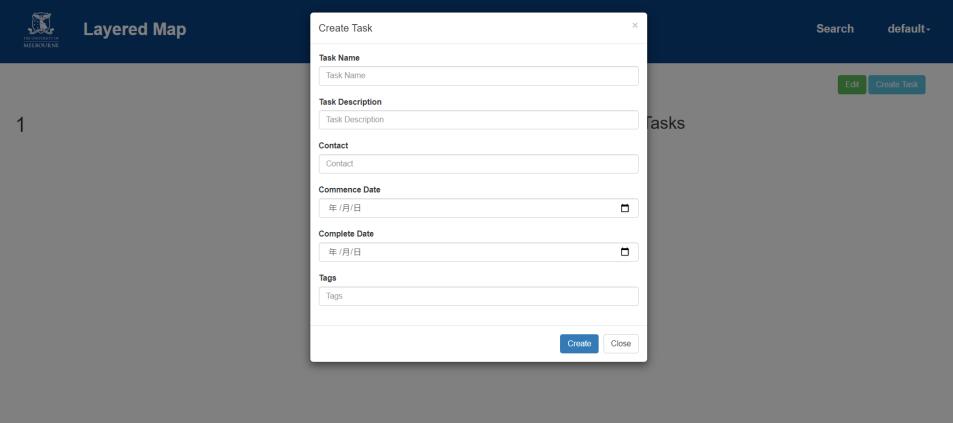
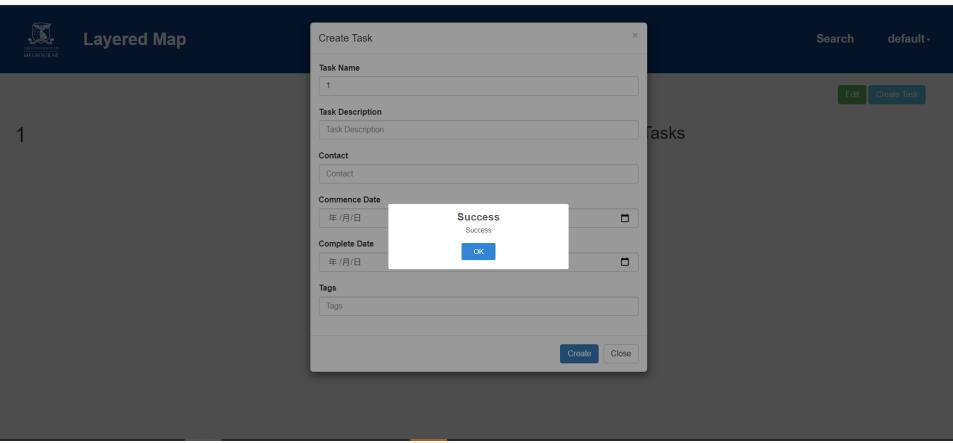
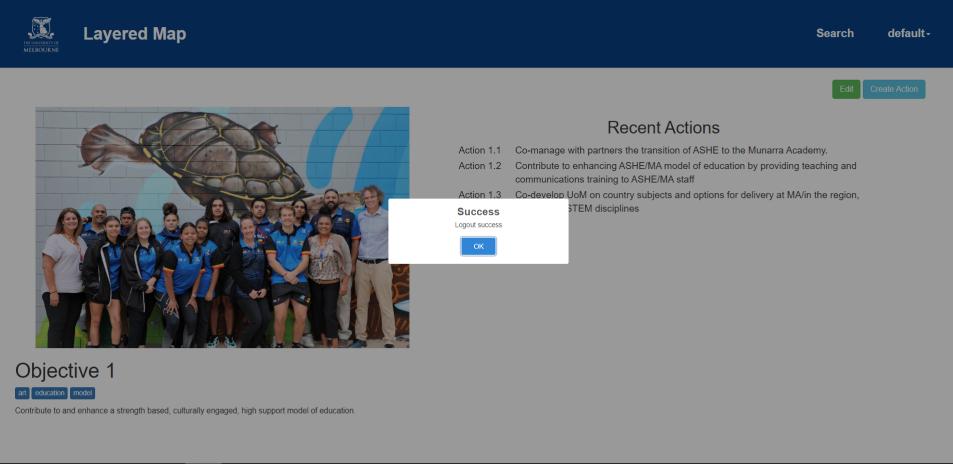
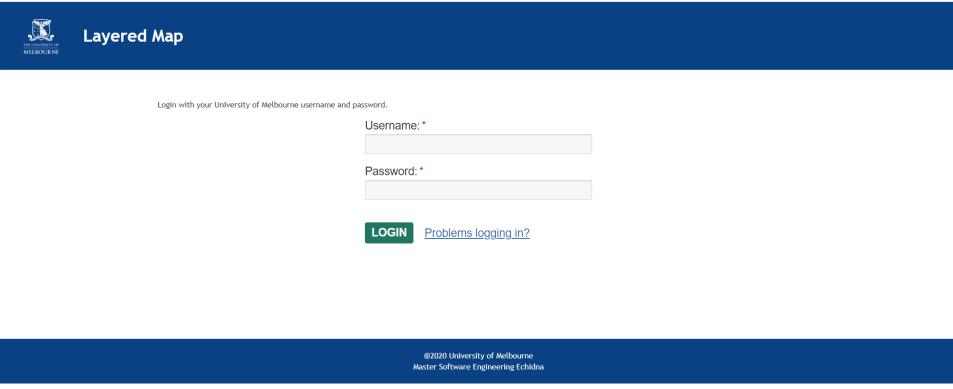
1.login	1.1 login	<p>Enter the account number and password, click the login button, login successfully.</p>  <p>The screenshot shows a blue header with the University of Melbourne logo and the title 'Layered Map'. Below it is a login form with fields for 'Username:' containing 'default' and 'Password:' containing '*****'. A 'LOGIN' button and a link 'Problems logging in?' are at the bottom. At the very bottom of the page, there's a footer bar with the text '@2020 University of Melbourne' and 'Master Software Engineering (UoM)'.</p>
2. Home page	2.1 About	<p>Click the about button on the home page to jump to the about page.</p>  <p>The screenshot shows the 'About' page of the Munarra Academy. It features a dark red background with a large, stylized Aboriginal artwork. The text 'Supporting education on Yorta Yorta land' is visible. Below the artwork is a blue navigation bar with links: Home, Objectives, About, News, Events, and Stories. The 'About' link is highlighted. The main content area is titled 'Munarra Academy' and contains a paragraph about the academy's purpose and partners. At the bottom, there's a note for staff about using the website for work.</p>
	2.2 Back to home page	<p>Click the layered map button at the top of the page to jump to the home page.</p>  <p>The screenshot shows the home page of the Munarra Academy. It has a dark red background with the same stylized Aboriginal artwork. The title 'Munarra Academy' is prominently displayed in white. Below it is the subtitle 'Supporting education on Yorta Yorta land'. At the top, there's a blue header with the University of Melbourne logo and the title 'Layered Map'. A dropdown menu is open, showing 'default' as the selected option. The rest of the page is mostly obscured by the artwork.</p>

	2.3 Jump to Objective page	Click the objective picture on the home page to successfully jump to the objective page.	<p style="text-align: center;"> Home Objectives About News Events Stories </p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">  <p>Objective 1 Contribute to and enhance a strength based, culturally engaged, high support model of education.</p> </div> <div style="text-align: center;">  <p>Objective 2 Co-develop and establish further study pathways for Munarra Academy graduates and other prospective students, including to UoM higher education courses.</p> </div> <div style="text-align: center;">  <p>Objective 3 Develop integrated employment pathways and career development for Munarra Academy graduates.</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">  <p>Objective 4 Contribute to regional education and social/economic development thinking through</p> </div> <div style="text-align: center;">  <p>Objective 5 Develop fee-for-service Munarra Academy learning programs</p> </div> <div style="text-align: center;">  <p>Objective 6 Contribute to building community research capability and opportunities for local research</p> </div> </div>										
			<p style="text-align: center;">  Layered Map Search default- </p> <div style="text-align: right; margin-top: -10px;"> Edit Create Action </div> <div style="text-align: center; margin-top: 10px;">  </div> <div style="text-align: center; margin-top: 5px;"> <p>Objective 1 art education model </p> <p>Contribute to and enhance a strength based, culturally engaged, high support model of education</p> </div> <div style="text-align: center; margin-top: 20px;"> <p>Recent Actions</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Action 1.1</td> <td>Co-manage with partners the transition of ASHE to the Munarra Academy</td> </tr> <tr> <td>Action 1.2</td> <td>Contribute to enhancing ASHE/MA model of education by providing teaching and communications training to ASHE/MA staff</td> </tr> <tr> <td>Action 1.3</td> <td>Co-develop UoM on country subjects and options for delivery at MA/in the region, including in STEM disciplines</td> </tr> </table> </div>	Action 1.1	Co-manage with partners the transition of ASHE to the Munarra Academy	Action 1.2	Contribute to enhancing ASHE/MA model of education by providing teaching and communications training to ASHE/MA staff	Action 1.3	Co-develop UoM on country subjects and options for delivery at MA/in the region, including in STEM disciplines				
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Action 1.3	Co-develop UoM on country subjects and options for delivery at MA/in the region, including in STEM disciplines												
3. User Profile management	3.1 jump to the profile page	Click the profile button in the upper right corner of the home page to enter the user profile page.	<p style="text-align: center;">  Layered Map Search default- </p> <div style="text-align: center; margin-top: 10px;"> <p>Joe</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Role</td> <td>Senior Executive</td> </tr> <tr> <td>Institution</td> <td>default</td> </tr> <tr> <td>Email</td> <td>test@test.com</td> </tr> <tr> <td>Phone</td> <td>1111</td> </tr> <tr> <td>Bio</td> <td>test 2</td> </tr> </table> <p style="text-align: center; margin-top: 5px;"> <input type="button" value="Save"/> <input type="button" value="Restore"/> </p> </div>	Role	Senior Executive	Institution	default	Email	test@test.com	Phone	1111	Bio	test 2
Role	Senior Executive												
Institution	default												
Email	test@test.com												
Phone	1111												
Bio	test 2												

	3.2 Edit Profile	Change the user information, click the Save button, and the change is saved successfully.	
4. Objective, actions and tasks.	4.1 edit	Click the Edit button in the upper right corner of the page to pop up an information box	
		change the information, click the Save button	

		<p>Page display saved successfully.</p>
		 <p>The screenshot shows a 'Layered Map' interface. A modal window titled 'Edit Objective' is open. Inside, there's a 'Name' field containing 'Objective 1'. Below it is a 'Tags' field with 'art.education,model'. A success message 'Objective updated' is displayed in a white box with an 'OK' button. The background shows a group of people standing in front of a large mural.</p>
	4.2 create actions	<p>Click the create actions button on the page, and an information box pops up</p>  <p>The screenshot shows a 'Layered Map' interface. A modal window titled 'Create Action' is open. It has fields for 'Action Name' (containing '1'), 'Action Description' (empty), and 'Tags' (empty). A 'Create' button is at the bottom. The background shows a landscape image.</p>
		<p>Fill in the action information, click the Save button, and the successful word is displayed on the page</p>  <p>The screenshot shows a 'Layered Map' interface. A modal window titled 'Create Action' is open. The 'Action Name' field contains '1'. The 'Action Description' and 'Tags' fields are empty. A success message 'Success' is shown with an 'OK' button. The background shows a landscape image.</p>

	4.3 edit actions	Click actions on the objective page to jump to the action page	 <p>Action 1.1</p> <p>education</p> <p>Co-manage with partners the transition of ASHE to the Munarra Academy</p> <p>Task 1 Task 2</p> <p>Sign partnership agreements Plan for relocation</p> <p>Tasks</p>
		change the information, click the Save button	 <p>Action 1.1</p> <p>education</p> <p>Co-manage with partners the transition of ASHE to the Munarra Academy</p> <p>Name: Action 1.1</p> <p>Description: Co-manage with partners the transition of ASHE to the Munarra Academy</p> <p>Tags: education</p> <p>Save changes Close</p>
		Page display saved successfully.	 <p>Action 1.1</p> <p>education</p> <p>Co-manage with partners the transition of ASHE to the Munarra Academy</p> <p>Success Success</p> <p>OK Close</p>

	4.4 Create tasks	Click the create task button on the page, and an information box pops up	
		Fill in the task information, click the Save button, and the successful word is displayed on the page	
5.Log out		Click the logout button on the page, and a success box pops up, then the page jumps to the login page	
			

Risk Management

Risk Tracking Table 1.0

Risk ID	Risk Type	Description	Probability	Impact	Justification
1	Project	It has not been determined whether the University of Melbourne is allowed to access the login system.	70%	2	The University of Melbourne may refuse to allow us to access the student account login system for security and privacy reasons. This result has little impact. We can establish our own database to store student login information.
2	Project	Due to the distance teaching, the members of the group can not communicate face to face, we can only communicate through network chat software, which may hinder the development of the project.	20%	4	Communication is a very important thing in the development process. Failure to communicate the completion of the project in time has a very bad impact on the project. However, through a variety of online real-time chat software, text, voice, video and other communication, the probability of this risk is low.
3	Project	Clients constantly put forward new requirements for the project, which may lead to problems in the integration of new modules and developed products.	60%	4	If the clients' requirements for the project are constantly changing, this is a big risk for developers. In the process of project development, there may be integration problems between existing development modules and new requirements modules proposed by clients. Even clients will ask for changes to the main content of the whole project, which is very bad for the development process.

Risk probability = a measure between 0 and 1 inclusive

Risk impact = finite grade of 1-5 scale, such as:

(1) none; (2) minimal; (3) moderate; (4) severe; (5) catastrophic impact;

Risk Tracking Table 2.0

Risk ID	Risk Type	Description	Probability	Impact	Justification
4	Project	It has not been determined whether the University of Melbourne is allowed to access the login system.	70%	2	The University of Melbourne may refuse to allow us to access the student account login system for security and privacy reasons. This result has little impact. We can establish our own database to store student login information.
2	Project	Due to the distance teaching, the members of the group can not communicate face to face, we can only communicate through network chat software, which may hinder the development of the project.	20%	4	Communication is a very important thing in the development process. Failure to communicate the completion of the project in time has a very bad impact on the project. However, through a variety of online real-time chat software, text, voice, video and other communication, the probability of this risk is low.
3	Project	Clients constantly put forward new requirements for the project, which may lead to problems in the integration of new modules and developed products.	60%	4	If the clients' requirements for the project are constantly changing, this is a big risk for developers. In the process of project development, there may be integration problems between existing development modules and new requirements modules proposed by clients. Even clients will ask for changes to the main content of the whole project, which is very bad for the development process.
4	Project	The client has updated the requirements a lot, and the project code needs to be updated to a large extent, and the project may face the risk of not completing.	30%	4	During the delivery of sprint2, the client corrected the requirements of the project and then updated the requirements. This means that the team has to do a lot of code work and may face the risk of not completing it on schedule

Risk probability = a measure between 0 and 1 inclusive

Risk impact = finite grade of 1-5 scale, such as:

(1) none; (2) minimal; (3) moderate; (4) severe; (5) catastrophic impact;

Risk Tracking Table 3.0

Risk ID	Risk Type	Description	Probability	Impact	Justification
4	Project	It has not been determined whether the University of Melbourne is allowed to access the login system.	70%	2	The University of Melbourne may refuse to allow us to access the student account login system for security and privacy reasons. This result has little impact. We can establish our own database to store student login information.
2	Project	Due to the distance teaching, the members of the group can not communicate face to face, we can only communicate through network chat software, which may hinder the development of the project.	20%	4	Communication is a very important thing in the development process. Failure to communicate the completion of the project in time has a very bad impact on the project. However, through a variety of online real-time chat software, text, voice, video and other communication, the probability of this risk is low.
3	Project	Clients constantly put forward new requirements for the project, which may lead to problems in the integration of new modules and developed products.	60%	4	If the clients' requirements for the project are constantly changing, this is a big risk for developers. In the process of project development, there may be integration problems between existing development modules and new requirements modules proposed by clients. Even clients will ask for changes to the main content of the whole project, which is very bad for the development process.
4	Project	The client has updated the requirements a lot, and the project code needs to be updated to a large extent, and the project may face the risk of not completing.	30%	4	During the delivery of sprint2, the client corrected the requirements of the project and then updated the requirements. This means that the team has to do a lot of code work and may face the risk of not completing it on schedule
5	Project	Many details of the project are not communicated with the client, which may lead to the risk of not meeting the customer's requirements at the final delivery	20%	3	According to the delivery of sprint1 and sprint2, the client has put forward a lot of new requirements. Therefore, in the final delivery process, there may be details that can not meet the needs of the client.

Risk probability = a measure between 0 and 1 inclusive

Risk impact = finite grade of 1-5 scale, such as:

(1) none; (2) minimal; (3) moderate; (4) severe; (5) catastrophic impact;

Product Backlog

The product backlog of this project is maintained in JIRA.

<https://jira.cis.unimelb.edu.au:8444/projects/LMEC14/summary>

Developer Documentation

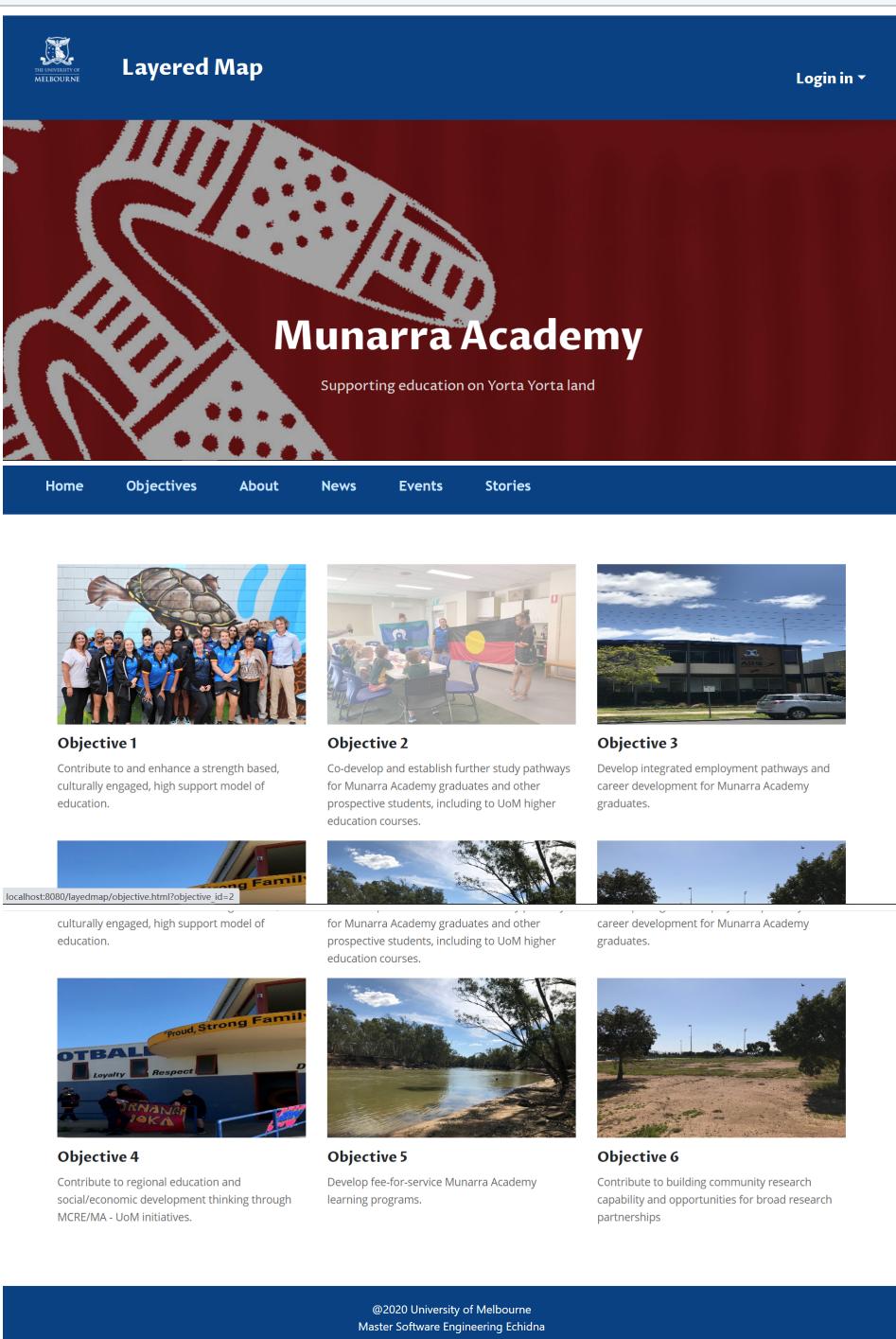
API Endpoints

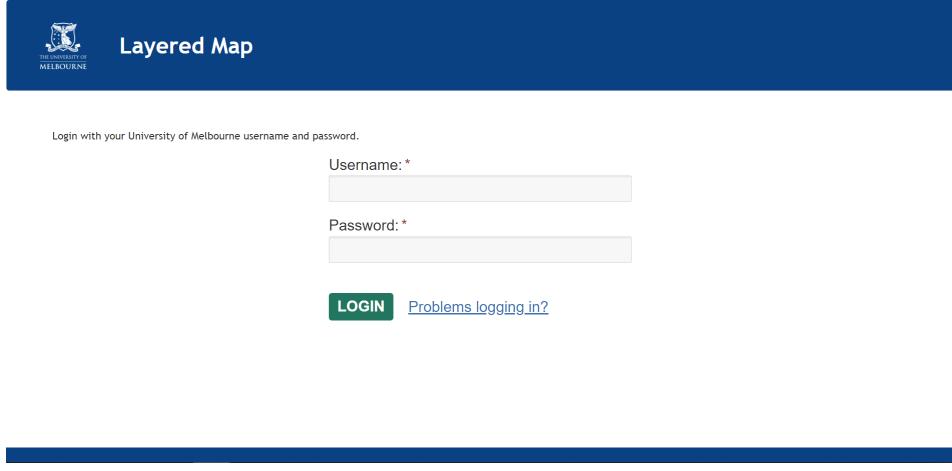
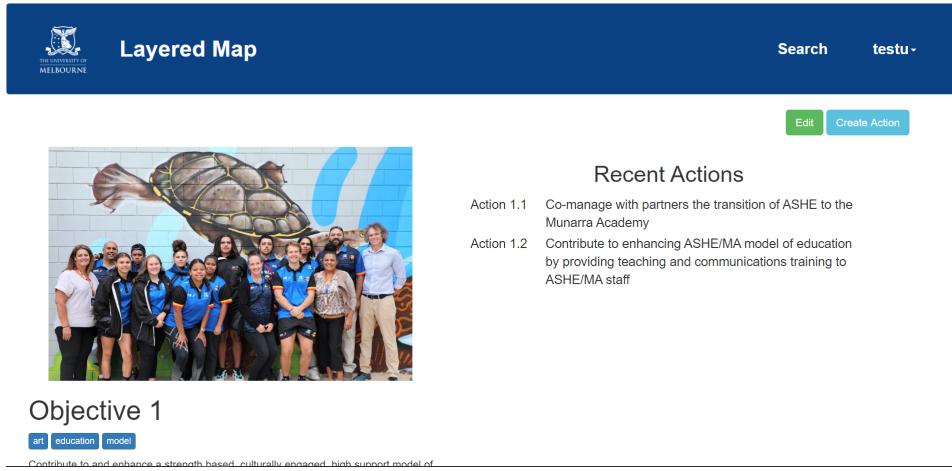
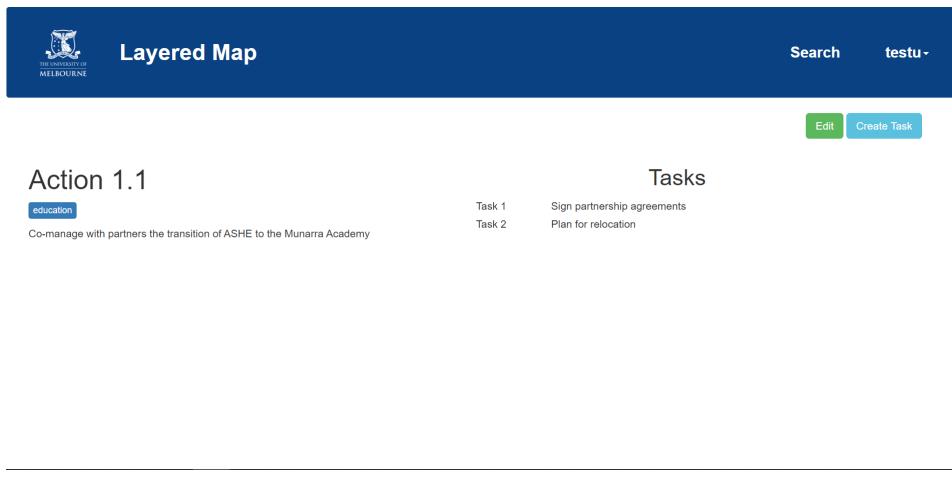
URL = <http://127.0.0.1:8080/layedmap/<Servlet Name>>

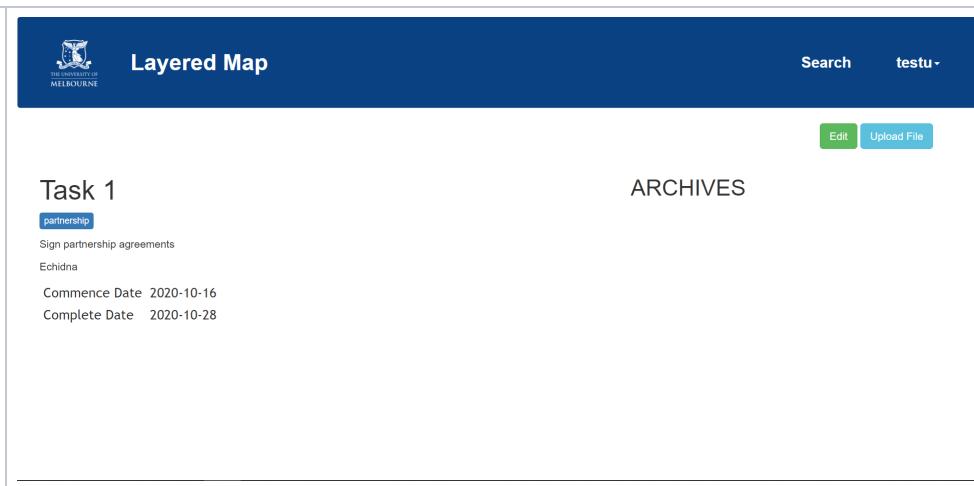
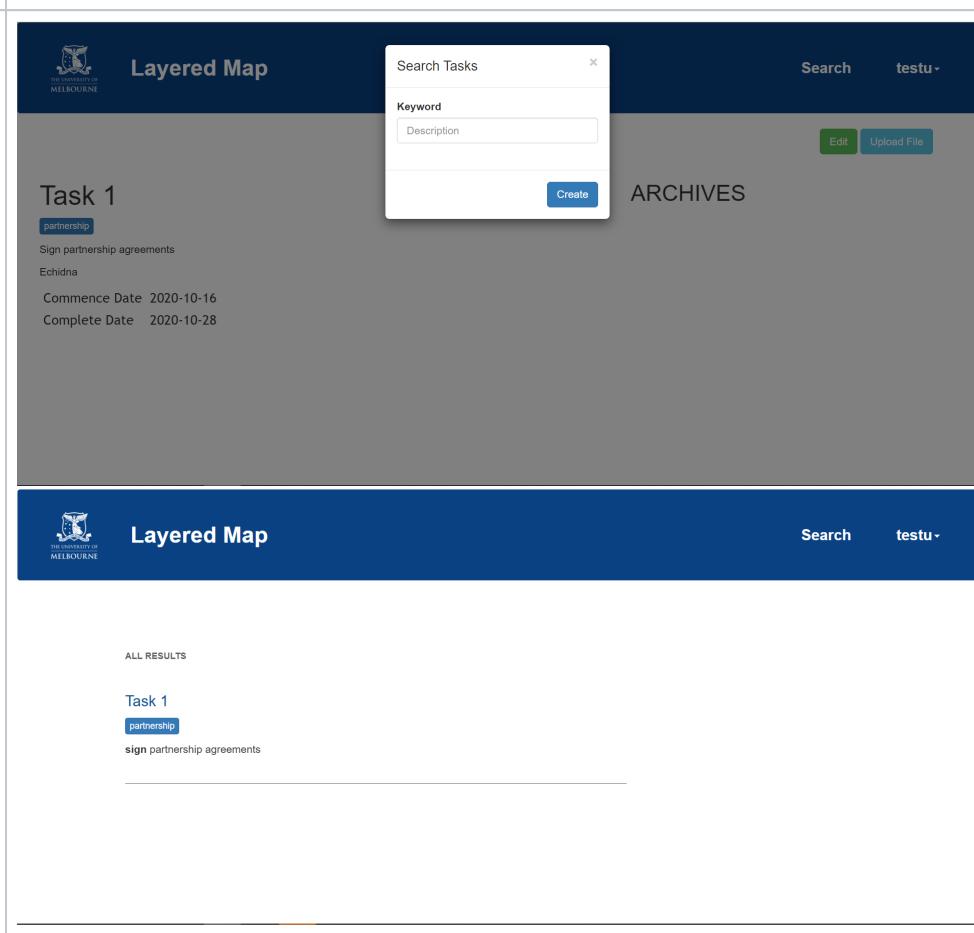
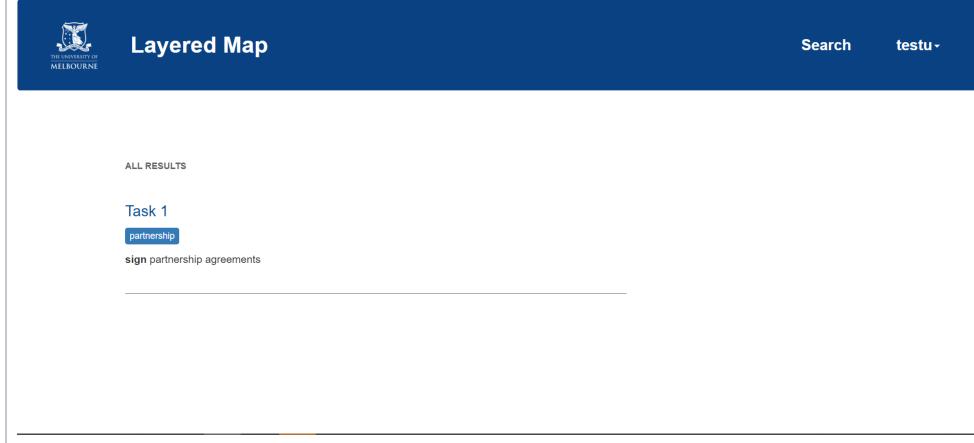
Example: <http://127.0.0.1:8080/layedmap/userLogin.action>

Servlet Name	Type	Function	Description
getUserById.action	post	UserController/getUserById	Get a users detailed information from database
userUpdateProfile.action	post	UserController/userUpdateProfile	Update a user's information
userLogin.action	post	UserController/userLogin	Get the username and password from the login form and verify the password. If the password is correct, put the user id into Session
logout.action	post	UserController/logout	Log out Remove the user id from Session
addObjective.action	post	ObjectiveController/addObjective	create a new objective Recieve the objective's name, introduction, sponsors and tags
getAllObjectiveByUser.action	post	ObjectiveController/getAllObjectiveByUser	serach from the database to find all objectives related to a user with the given user id
getAllObjectives.action	post	ObjectiveController/getAllObjectiveByUser	Read all objectives from database
getRelateObjectiveId.action	post	ObjectiveController/getRelateObjectiveId	get all related objectives of an objective with the given id
searchObjectiveByNameAndID.action	post	ObjectiveController/searchObjectiveByName	Get objectives related to a specific user by a key word
searchObjectiveByName.action	post	ObjectiveController/searchObjectiveByName	Get all objectives by a key word
editObjective.action	post	ObjectiveController/editObjective	Update the basic information of an objective
postAnnouncement.action	post	AnnouncementController/postAnnouncement	A user post an annoucement in an objective with the given id
addAction.action	post	ActionController/addAction	create a new action
editAction.action	post	ActionController/editAction	edit the basic information of an existing action
getActionDetail.action	post	ActionController/getActionDetail	fetch the detailed information of an action
addTask.action	post	TaskController/addTask	create a new task
getTaskDetail.action	post	TaskController/getTaskDetail	fetch the detailed information of a task
searchTask.action	post	TaskController/searchTask	search tasks by keyword

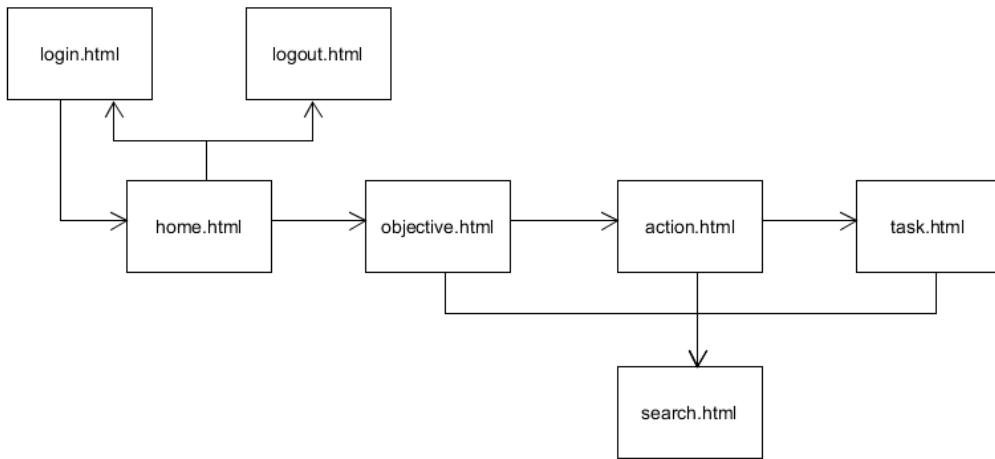
Front-end Pages

Pages	Description
Home page	<p>Style: the blue-white style followed Melbourne uni website</p> <p>A Headline shows "Munarra Academy".</p> <p>The Navigation bar list Home, Objectives, About, News, Events and Stories.</p> <p>Six Objectives and their Images and description.</p>  <p>Objective 1 Contribute to and enhance a strength based, culturally engaged, high support model of education.</p> <p>Objective 2 Co-develop and establish further study pathways for Munarra Academy graduates and other prospective students, including to UoM higher education courses.</p> <p>Objective 3 Develop integrated employment pathways and career development for Munarra Academy graduates.</p> <p>Objective 4 Contribute to regional education and social/economic development thinking through MCRE/MA - UoM initiatives.</p> <p>Objective 5 Develop fee-for-service Munarra Academy learning programs.</p> <p>Objective 6 Contribute to building community research capability and opportunities for broad research partnerships</p>

Login page	<p>clear style fill your username and password then click on the Login button.</p>	 <p>The screenshot shows the University of Melbourne's login interface. At the top, there is a logo and the text "Layered Map". Below that, a message says "Login with your University of Melbourne username and password." There are two input fields: "Username:" with a red asterisk and "Password:" also with a red asterisk. Below the fields are two buttons: a green "LOGIN" button and a blue "Problems logging in?" link.</p>
Objective Page	<p>A big image is put on the left the Objective name, description, tags under it. Actions belong to this obj is listed on the right Edit and create a new action</p>	 <p>The screenshot shows the University of Melbourne's objective page. At the top, there is a logo and the text "Layered Map". On the right, there are "Search" and "testu-" buttons. In the center, there is a large image of a group of people standing in front of a wall with a turtle mural. Below the image, the title "Objective 1" is displayed, along with tags: "art", "education", and "model". A sub-section below says "Contribute to and enhance a strength based, culturally engaged, high support model of". To the right, there is a "Recent Actions" section listing "Action 1.1" and "Action 1.2", each with a description. At the bottom, there are "Edit" and "Create Action" buttons.</p>
Action Page	<p>Action number, tags, description are listed on the left. Tasks belong to this action. Edit and create a new task.</p>	 <p>The screenshot shows the University of Melbourne's action page. At the top, there is a logo and the text "Layered Map". On the right, there are "Search" and "testu-" buttons. In the center, the title "Action 1.1" is displayed, with a "education" tag. Below it, a description says "Co-manage with partners the transition of ASHE to the Munarra Academy". To the right, there is a "Tasks" section with "Task 1" and "Task 2", each with a description. At the bottom, there are "Edit" and "Create Task" buttons.</p>

Task Page	<p>Task number, tags, description and dates.</p> <p>Archives.</p> <p>Edit and upload files to the task.</p>	 <p>Layered Map</p> <p>Task 1</p> <p>partnership</p> <p>Sign partnership agreements</p> <p>Echidna</p> <p>Commence Date 2020-10-16</p> <p>Complete Date 2020-10-28</p> <p>ARCHIVES</p>
Search Page	<p>Pop-up box write the keyword and click on the create button.</p> <p>All results are listed, contains every task number, tags and description.</p>	 <p>Layered Map</p> <p>Search Tasks</p> <p>Keyword</p> <p>Description</p> <p>Create</p> <p>ARCHIVES</p>  <p>Layered Map</p> <p>ALL RESULTS</p> <p>Task 1</p> <p>partnership</p> <p>sign partnership agreements</p>

Logic of Pages



1. Home Page Login Page
2. Home Page Logout Page
3. Home Page Objective Page
4. Objective Page Action Page
5. Action Page Task Page
6. Task Page Search Page

This diagram shows the main logic of the front end pages, but not all connections. For example, you can go logout page in the home page, objective page, action page and task page, you can go search page in objective page, action page and task page.