8/18/2022

SPRINT 3 INDIVIDUAL CONTRIBUTION

Employability Assessment Toolkit

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Project Owner (Database Administrator & Web-Developer)

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Project – X02 Employability Assessment toolkit

SPRINT 3 DELIVERABLES – INDIVIDUAL CONTRIBUTION

Team members and their roles

Project Team Members	Scrum roles	Development roles
Muhammad DANIYAL	Scrum Master	Database administrator & Web developer
Sukhtindervir KAUR	Product Owner	Software developer
Suraj MAHAT	Team member	Application developer
Pratik LAMICHHANE	Team member	Application developer
Roshan SHRESTHA	Team member	Application developer

- Changes in these roles were determined based on certain criteria set by the whole team while working on the project.
- Based on project responsibilities, additional duties have been added to each of the group members' roles.
- Based on performance, team roles were determined.

Theme & wish list

I organized a meeting to define project requirements (evidence have been provided at the end of document)

- **Theme:** "Create the fully functional website including home, portals, about, our project, contact and sign out pages having live-chat and search functionalities with improvement in the assessment tools' functionalities. (All functionalities to be tested and approved by scrum master)".
- **Wish List**: "To create and test the required functions of the site & tools. To improve the aesthetics of site having a fully functional GUI throughout the site."

Incoming Product Backlog

According to my team role, I have set following user stories that I have intended to complete for upcoming sprint 4:

US1: As a user, I want to login with LinkedIn button so that I don't have to fill-up information.

US2: As a user, I want to live chat with agent so that I can get answers to questions.

US3: As a user, I want to go to FAQs page so that I can get answers to my enquiries.

US4: As a user, I want to go to search through site so that I don't have to navigate for information.

US5: As a user, I want to get in touch with an expert so that I can discuss about my career opportunities.

Sprint Backlog

As a project leader, I divided the tasks among the team members and always tried to help others in case if they faced any problem because I have taken an important responsibility and I want to deliver best product to client. Following is my contribution towards project sprint 3 backlog:

Requirement	Conditions of Satisfaction	Tasks and Estimates
US1: As a GU, I want to create an account so that I can access Employability Assessment Portal.	• User must fill registration form. • Login link exists on homepage Clicking that link leads to a registration form. • The form should send an email to the user's entered email id for verification.	T1 The web-based form should be present in the web page for the user to enter their personal information – ½ day (Muhammad Daniyal) T2 The user should be able to submit the form online, which should create details in the database – 3 hours (Muhammad Daniyal) T3 Create user table in the database with the necessary meta data – ½ day (Muhammad Daniyal)
US2: As a user, I want to sign into EL website so that I can use Employability Assessment Portal.	• Once verified, the user should be able to login using the username/password. • User is only logged in if valid credentials are entered.	T4 Create web page to show the successful creation of the login – 3 hours (Muhammad Daniyal)
US3: As a user, I want to reset my password so that I can access the login page of EL website.	• Clicking on forgot my password button on EAT leads the user authentication by email, when verified then user can login using login credentials. • User must enter correct email address.	T5 Generate queries for updating the relevant tables – 3 hours (Muhammad Daniyal)
US4: As a user, I want to see available assessment tools so that I can understand workplace trends and prepare myself for employment.	• User can assess and use the assessment tool only if he/she is a registered member. • User will need to head to assessment portal.	T6 Develop a comprehensive employability assessment portal page with relevant functionalities – ½ day (Muhammad Daniyal) T7 Add links to CAT, CDPT and CVAT – 1 hour (Muhammad Daniyal)
US5: As a PO, I want to add an EAT so that I can attract many target users visiting my website.	• This task can be accomplished only if EAT contains CAT, CVAT and CDPT and these tools provide accurate results.	T8 Develop CVAT along with CV uploading functionalities in several formats – ½ day (Muhammad Daniyal) T9 Develop CVAT feedback page based on resume assessment – ½ day (Muhammad Daniyal)

		T10 Develop CAT with career competencies feedback page – ½ day (Muhammad Daniyal)
US6: As a user, I want to contact employability team to enquire regarding career.	• User must need to be logged into site • User must head to contact page • User must fill-out all required fields • User must click submit button	T11: Provide a contact form for the user with required fields – ½ day (Muhammad Daniyal) T12: Use php to forward email to respective recipient – 1 day (Muhammad Daniyal)
US7: As a user, I want to chat with employability team so that I can get answer to my questions in real-time	• User must need to be logged into site • User must click on chat icon in bottom right to corner • User must fill-out all required fields • User must click submit button to submit enquiry	T13: Implement and deploy chat functionality via Javascript and PHP T14: Provide a contact form for the user with required fields – ½ day (Muhammad Daniyal) T15: Use php to forward email to respective recipient – 1 day (Muhammad Daniyal)
US8: As a user, I want to use the site on an android/ iPhone device so that i can access the information on mobile as well	• User must use responsive drop-down menu to navigate through site • User must click appropriate links	T16: Use media queries to make the site responsive – 4 days (Muhammad Daniyal) T17: Use JS and MYSQL queries simultaneously – 2 days (Muhammad Daniyal)
US9: As a user, I want to download project handbook so that I can get more information	• User must be logged in • User must go to "Our Project" page • User must click "Download" button	T18: Develop a page "Our project" and provide project handbook file to be downloaded by user – ½ day (Muhammad Daniyal)
US10: As a user, I want to sign out of the site so that my information is secure.	• User must be logged in • User must need to click "sign out" button on navigation	T19: Create a auth_session.php file and logout_auth.php file – 2 hours (Muhammad Daniyal) T20: Provide link on website to logout_auth.php file – 1 hr (Muhammad Daniyal)
US11: As a user, I want to have a live chat with expert so that I can get answer to my enquires.	• User must be logged in • User must click chat with us icon in bottom right corner • User must provide information about issue	T21: Research about integration of live-chat into website (Muhammad Daniyal) – 1 day T22: Add script to coding files after <head> tag. (Muhammad Daniyal) - 1 hr T23: Provide real-time responses to user (Muhammad Daniyal)

Sprint 3 Meetings

Being the project leader, I always played my role in motivating my other group members and kept others' considerations into account. I allocated the task of meeting arrangements to scrum master and I would discuss with scrum master regarding meeting agenda. Meanwhile, I used to have question – answer sessions with other members of the group in order to make sure that everyone was on track and that project is going well according to the set requirements. Following is a list of meetings that I attended and played my role as project leader:

Stand-up meeting 1

Date and time: 24/07/2022, 11:00 am – 11:45 am

Venue: MS Teams Conversation

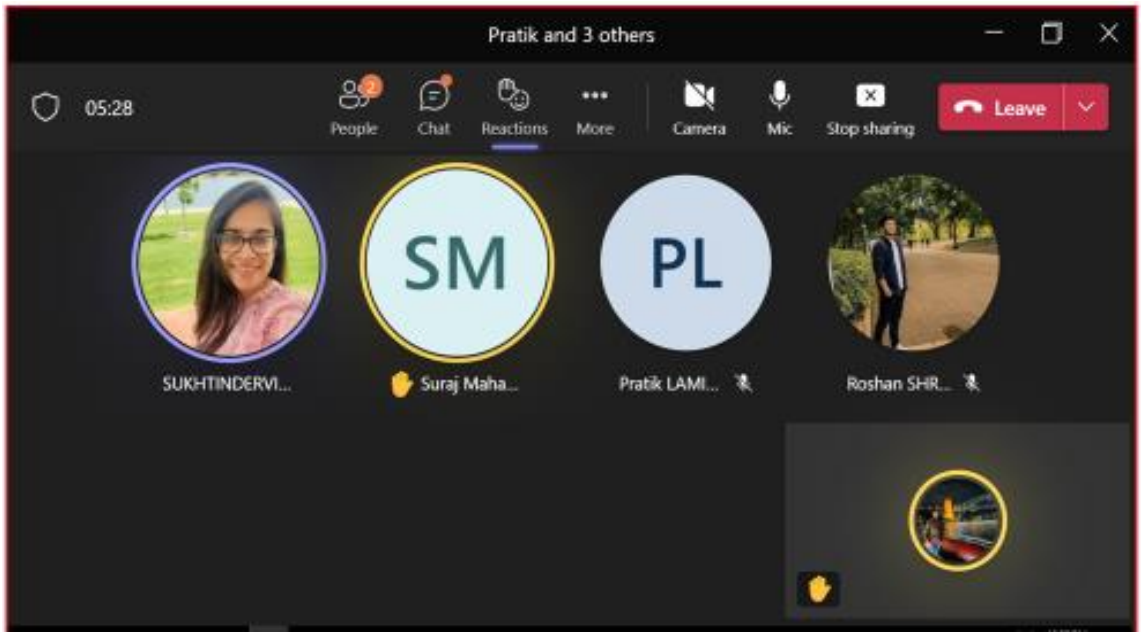
Attendees: Muhammad Daniyal, Sukhtindervir Kaur, Suraj Mahat and Pratik Lamichhane

Minutes Taken by: Sukhtindervir Kaur

Agenda:

- Defining requirements
- To discuss the progress of project sprints
- Testing was assigned to Sukhtindervir Kaur.
- Discussed the feedback which was given in sprint 2 by the client.

Proof:



Stand-up meeting 2

Date and time: 25/07/2022, 5:00 pm – 5:30pm

Venue: MS Teams Conversation

Attendees: Muhammad Daniyal, Sukhtindervir Kaur, Suraj Mahat, Roshan Shrestha and Pratik Lamichhane

Minutes Taken by: Sukhtindervir Kaur

Agenda:

- To discuss the test results
- To showcase project progress so far
- To discuss GitHub repository file management

Stand-up meeting 3

Date and time: 27/07/2022, 5:00 pm – 5:30pm

Venue: MS Teams Conversation

Attendees: Muhammad Daniyal, Sukhtindervir Kaur, Suraj Mahat, Roshan Shrestha and Pratik Lamichhane

Minutes Taken by: Sukhtindervir Kaur

Link:

https://australiantmc-my.sharepoint.com/:v:/g/personal/30385522_students_atmc_edu_au/Ea6Y9StJaGVDmPRn7DWKIHsBqlDmUEJ3rTbgZ5A5Nhs0UA

Agenda:

- To display new changes in site
- To display responsive design by Muhammad Daniyal
- To discuss login with google functionality by Muhammad Daniyal
- Testing tool was introduced by Sukhtindervir Kaur
- To discuss the tools progression

- Stand-up meeting 4

Date and time: 07/08/2022, 10:30 pm – 11:30pm

Venue: MS Teams Conversation

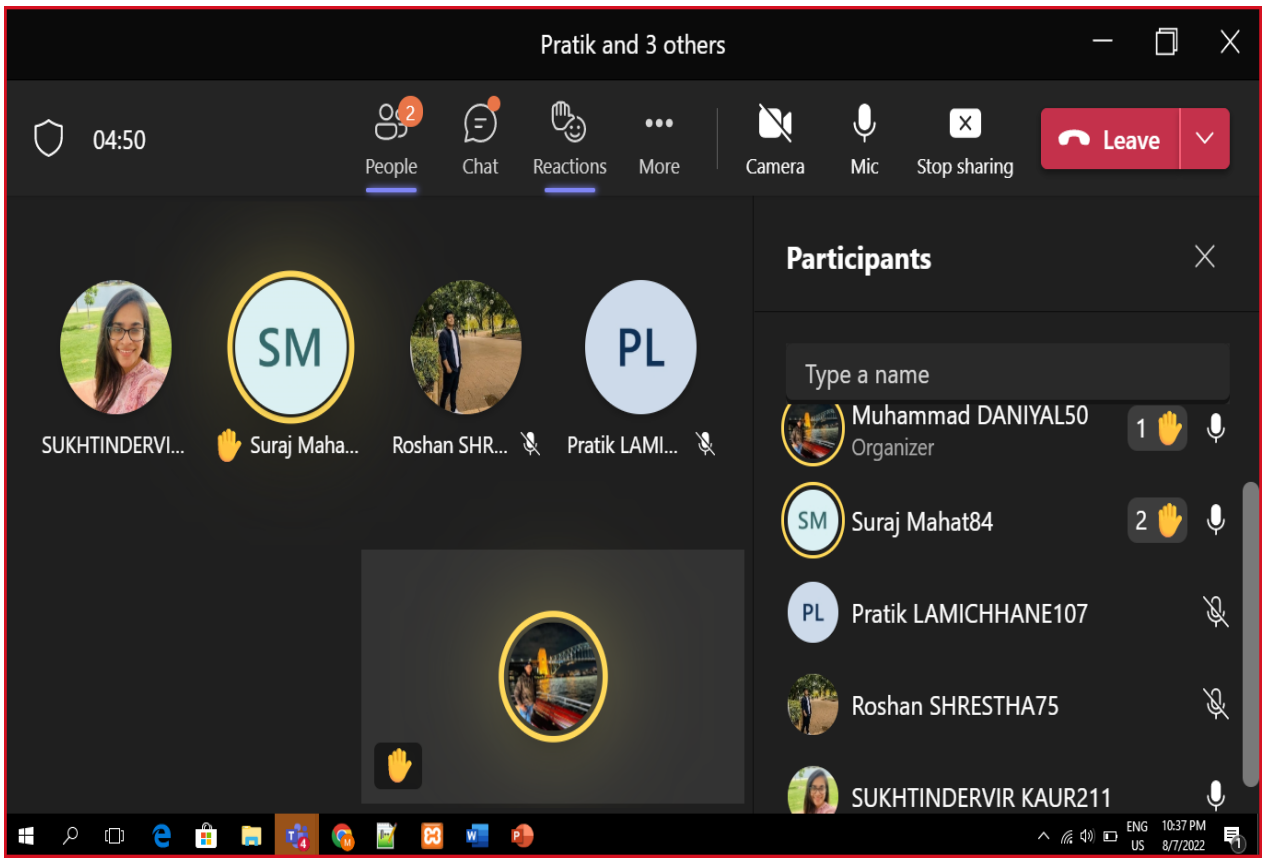
Attendees: Muhammad Daniyal, Sukhtindervir Kaur, Suraj Mahat, Roshan Shrestha and Pratik Lamichhane

Minutes Taken by: Sukhtindervir Kaur

Agenda:

- Showcased individual work
- Provided feedback
- Welcomed recommendations

Evidence



- Review meeting

Date and time: 10/08/2022, 3:00 pm – 3:30pm

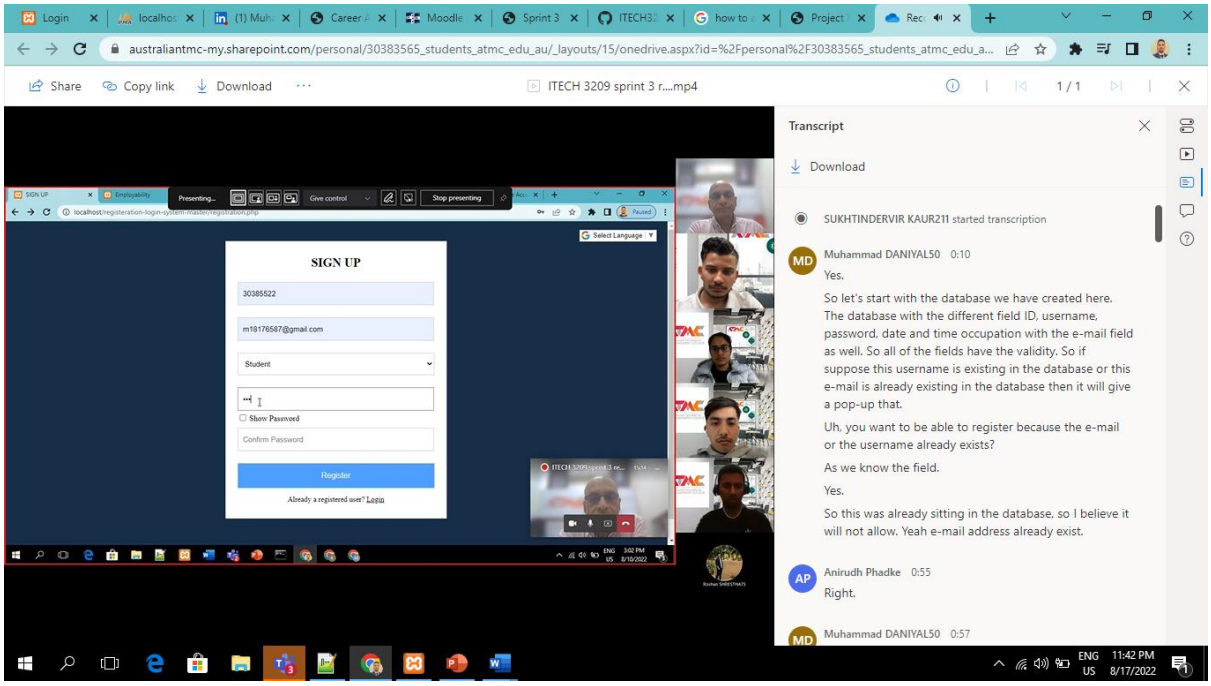
Venue: MS Teams Conversation

Attendees: Anirudh Phadke (Client), Muhammad Daniyal (Product owner), Sukhtindervir Kar(Scrum master), Suraj Mahat (team member), Roshan Shrestha (team member) and Pratik Lamichhane (team member).

Minutes Taken by: Sukhtindervir Kaur

Link: https://australiantmc-my.sharepoint.com/:v:/g/personal/30383565_students_atmc_edu_au/EUtf5ptOd7FBkpwjx8tZpysBJVwy5vO2iRerdUq08zlx3A

Evidence:



Agenda item 1: Demonstration of the project

The project owner allocated tasks to scrum master and team members for working with the HTML5, CSS3, JavaScript, and other software for coding to create the employability tool. Then all the task from the group members were collaborated together. Muhammad Daniyal (Product owner) demonstrated the website including all the features of the website.

Agenda item 2: Feedback

The client suggested some of the changes for the Career development tool questionnaire. He told us to use the database to show the questions on the website.

- Retrospective meeting

Date: 12st June 2022, 10:30 pm-11:00 pm

Venue: MS Teams conversation

Attendees: Muhammad Daniyal (Product owner), Sukhtindervir Kaur (Scrum master), Suraj Mahat (Team member) & Pratik Lamichhane

Apology: Roshan Shrestha (Team member)

Minutes Taken by: Sukhtindervir Kaur

Link: https://australiantmc-my.sharepoint.com/:v:/g/personal/30391411_students_atmc_edu_au/ERhr8Fr9SDlKmOMdVEuIFXwBG4K2aO-_Qqv5xisL0GnI3g

Item 1: What went well?

· Individual effort on their respective works was great.

· Good co-ordination between team members.

· Completed the individual task on time.

· Testing was went well with no bugs or error.

Item 2: What could be improved?

· Getting more feedback and information from client regarding the works.

· More meeting should be added and make it productive.

Item 3: What can we do?

· We will arrange more meetings in the upcoming sprints.

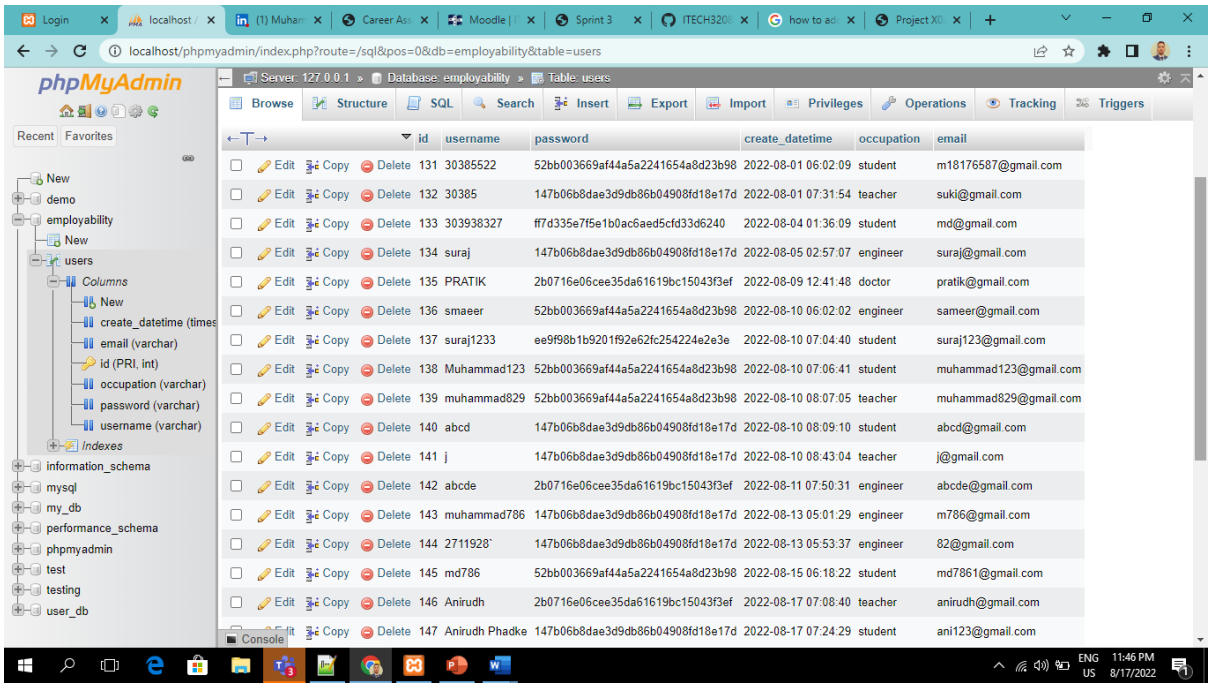
· We can do more researching to improve the functionalities of the tools to get required results.

Item 4: What is not in our control?

-Suraj Mahat was sick and he was not able to attend one of the meetings.

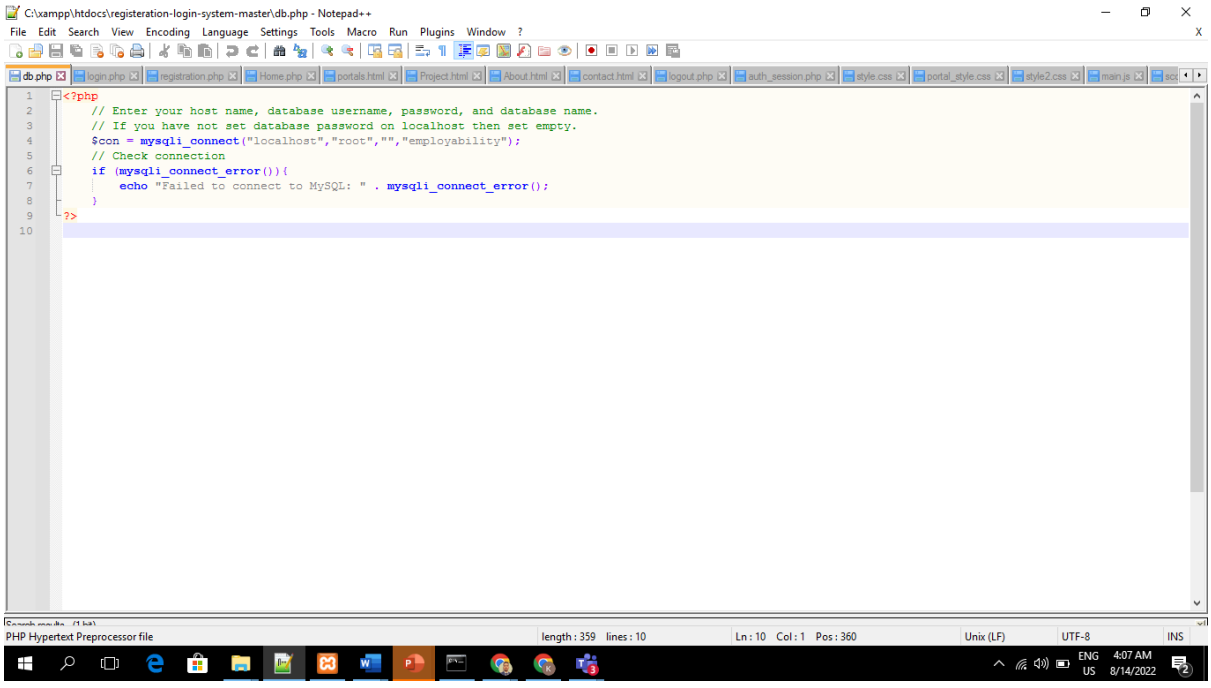
○ Development of database

I developed a database using phpMyAdmin. Six different columns were added using SQL editor. The password was hashed using md5 hashes for security purposes. Following screenshot provides evidence of the created database:



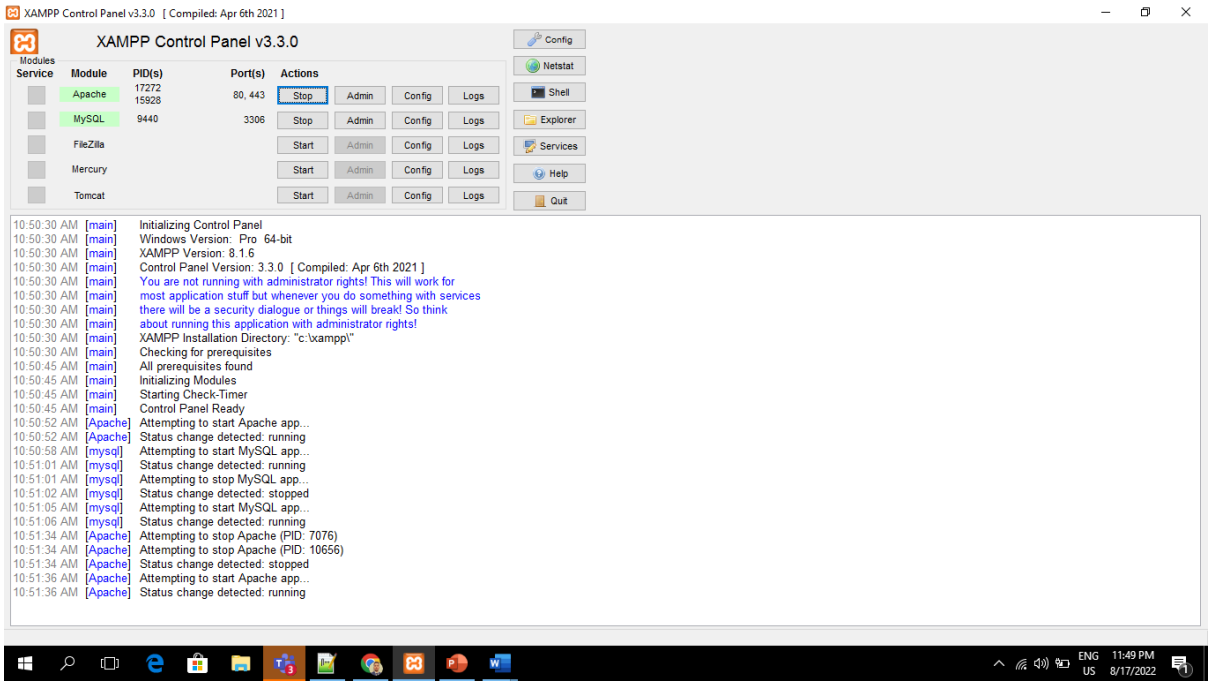
○ Development of db.php file

After the creation of database, I created db.php file in order to connect the website to localhost and the database:



○ Xampp server:

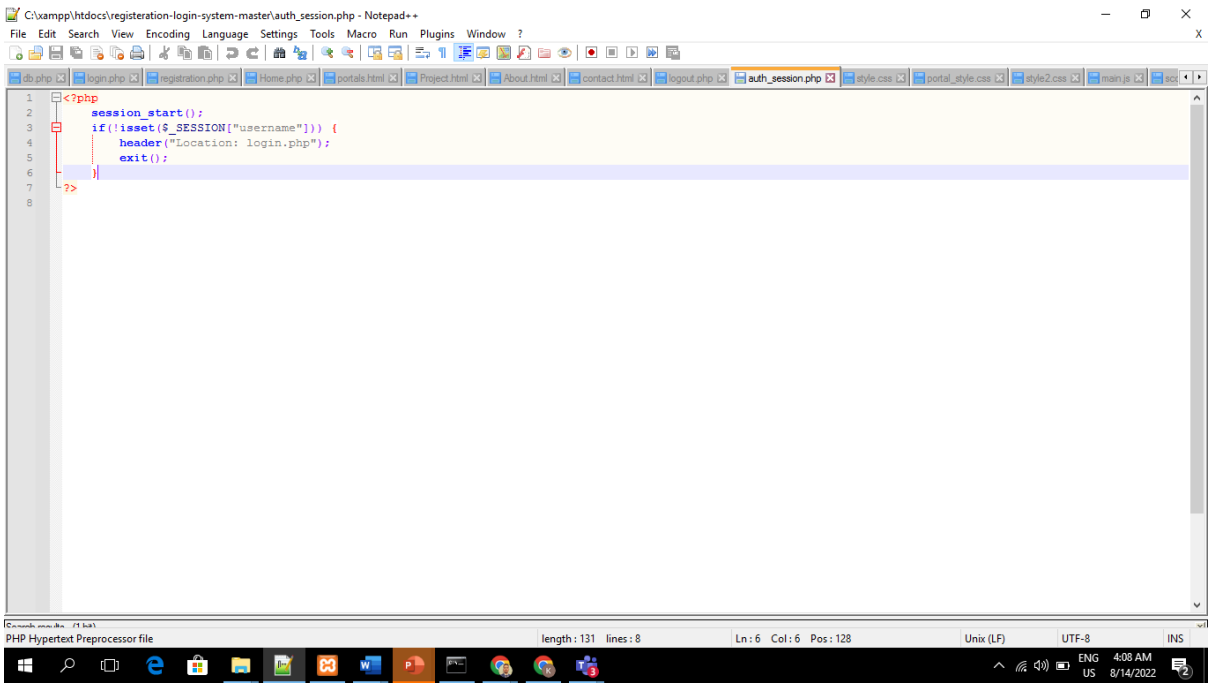
Before connecting the database to the localhost, I started Apache and MySQL services:



○ Development of auth_session.php file

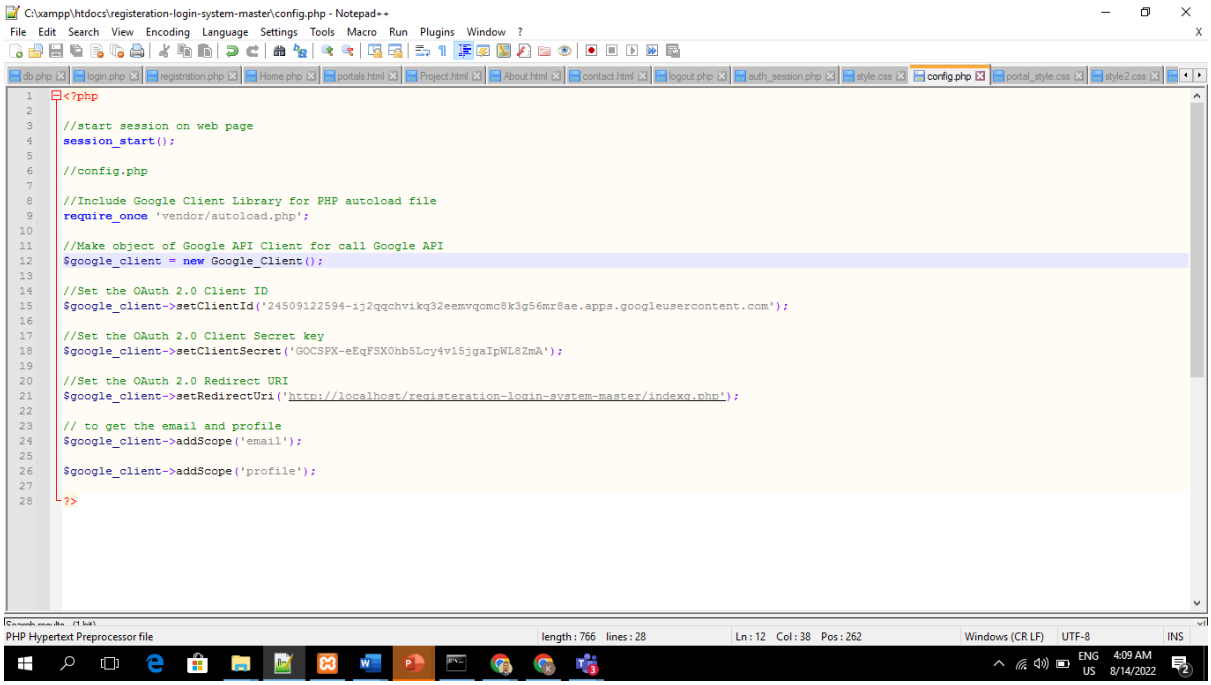
To get user session, I added an authentication session file and included the following script to home.php page :

```
<?php

include("auth_session.php");

?>
```



○ Development of config_session.php file

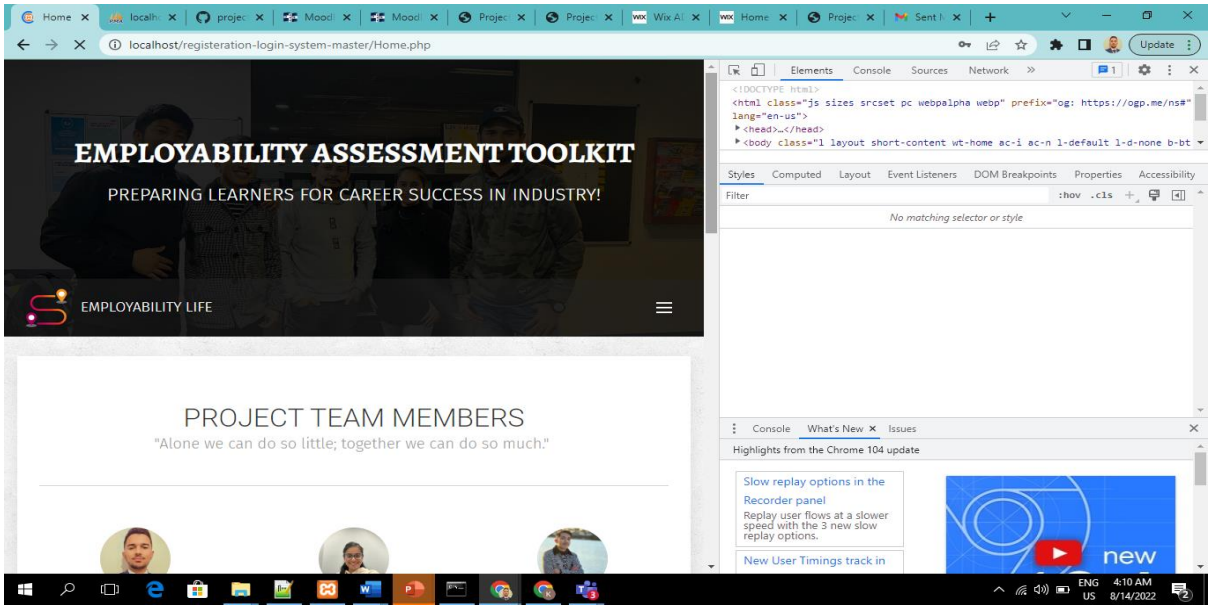
Following configuration file was created for login and registration purposes by me:



○ Development of responsive web-design

In sprint 3, I intended on developing a responsive website design in order to get users' attention so that user can easily access the site on any devices. This web-design is compatible with all devices.

- Used media queries to accomplish task
- Compatible for mobile devices
- Compatible for PCs
- Compatible for Laptop devices
- Compatible for iPad devices



○ Imported Bootstrap CSS style sheets

For better styling and website design, I used bootstrap imported style sheets in code editor. Following sheets were utilized:

<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css">

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.13.0/css/all.min.css">

<link rel="stylesheet" href="https://preview.colorlib.com/theme/bootstrap/login-form-20/css/A.style.css.pagespeed.cf.eQk9-CoeFP.css">

○ Imported Font awesome style sheets

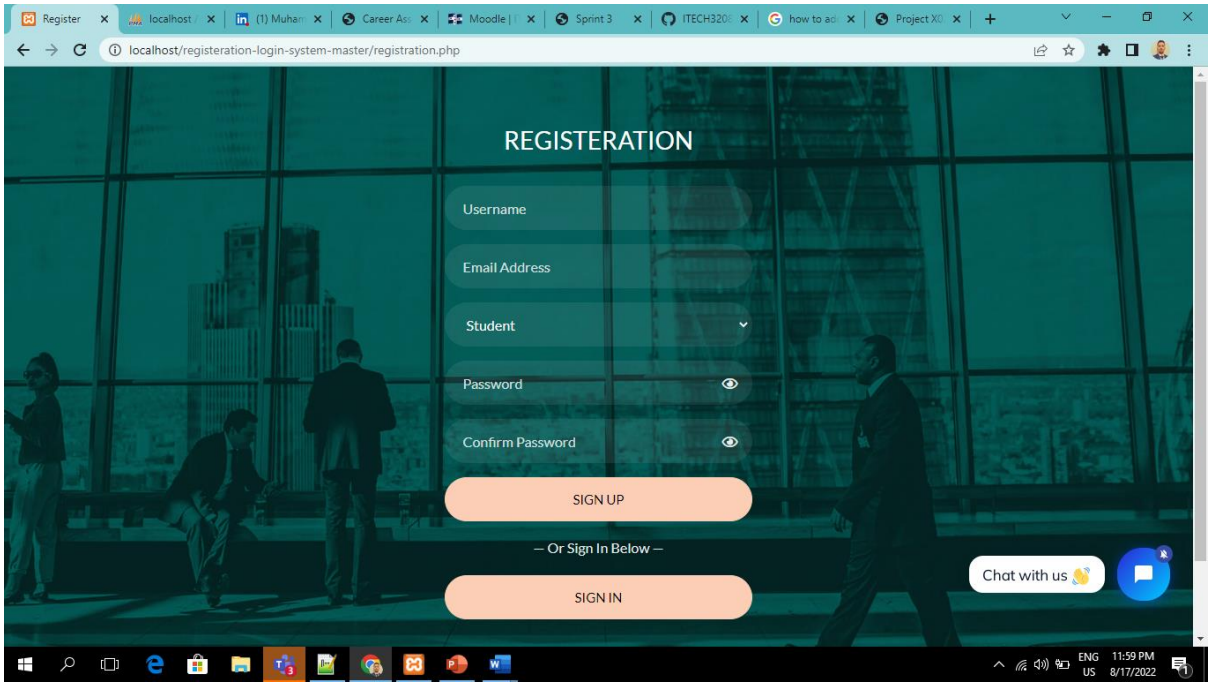
Throughout the website, I used clear and intuitive font-icons so that the user can easily get information about the external link provided. For this very purpose, I linked following scripts to web-pages:

<link href="https://fonts.googleapis.com/css?family=Lato:300,400,700&display=swap" rel="stylesheet">

<script src="https://kit.fontawesome.com/a076d05399.js" crossorigin="anonymous"></script>

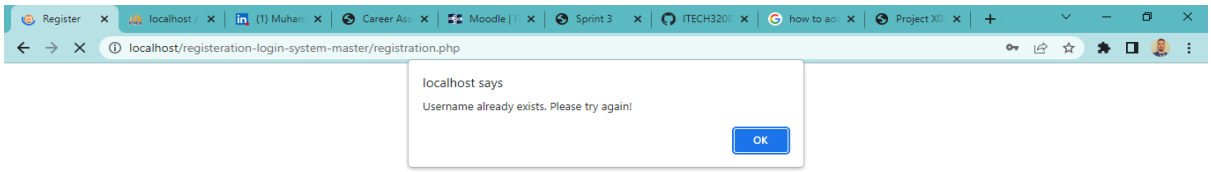
○ Development of REGISTRATION PAGE

Registration page was created having full validity given in the form of alert notifications. Following screenshots gives an overview of user registration page:

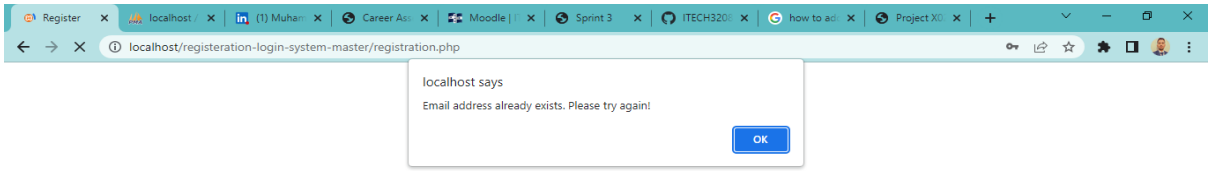


Following validations have been applied to the registration page:

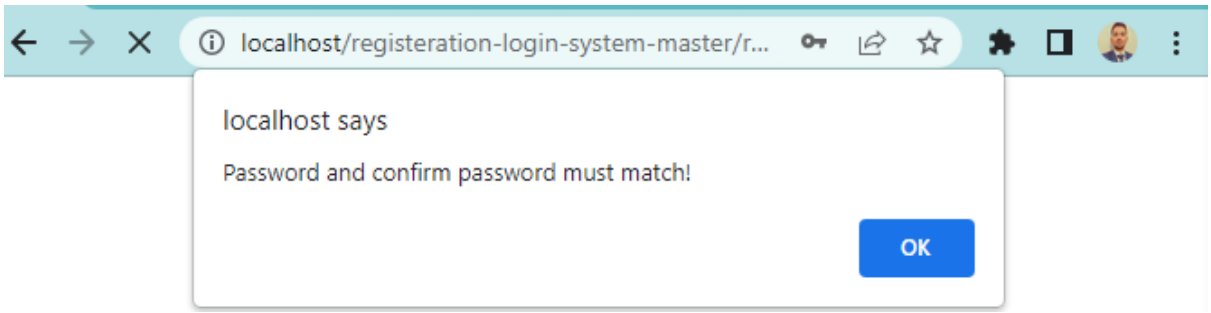
- ✓ Username must not exist in the database



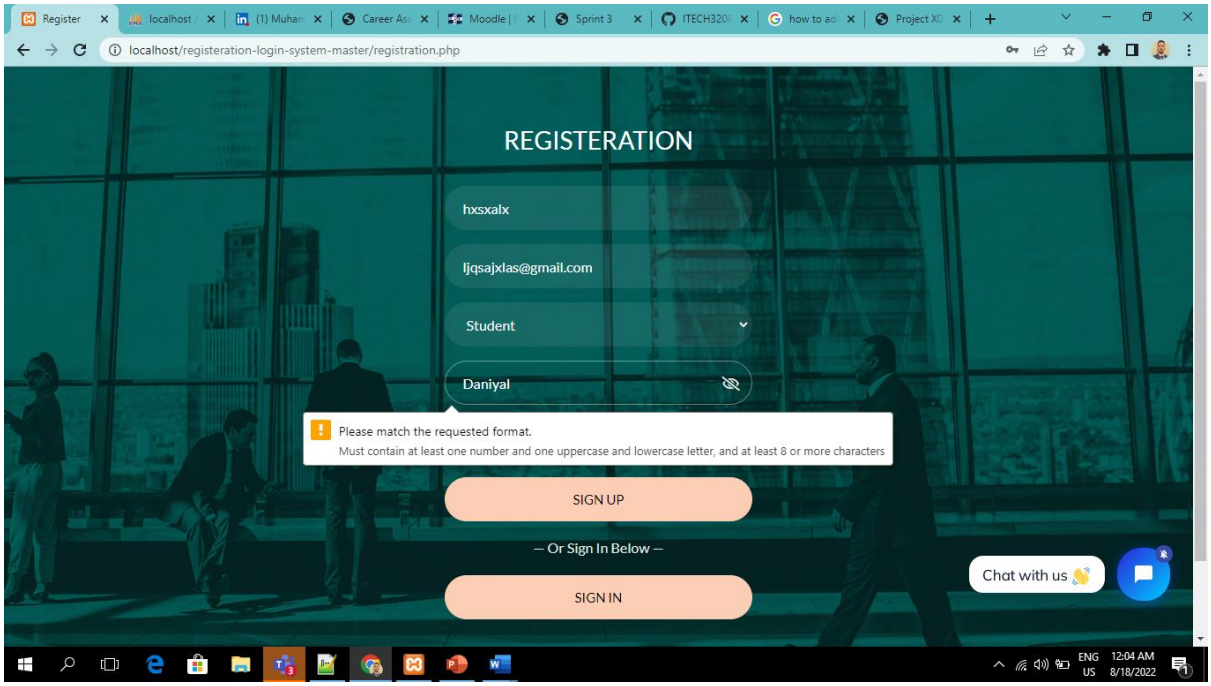
- ✓ Email must not exist in the database



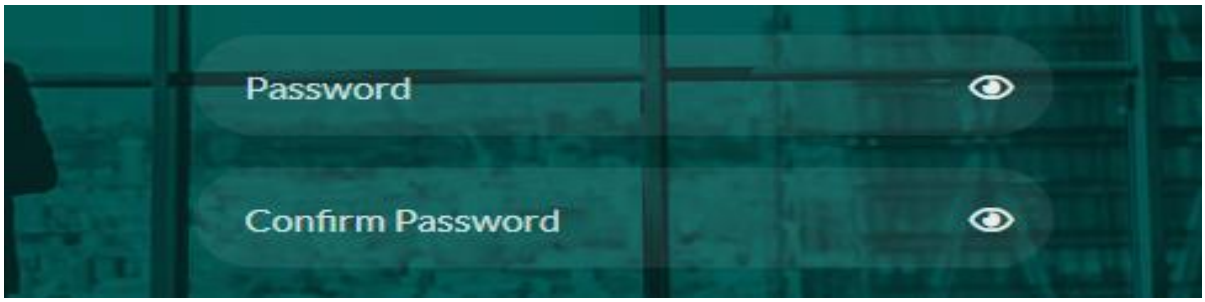
- ✓ Password and confirm password must match



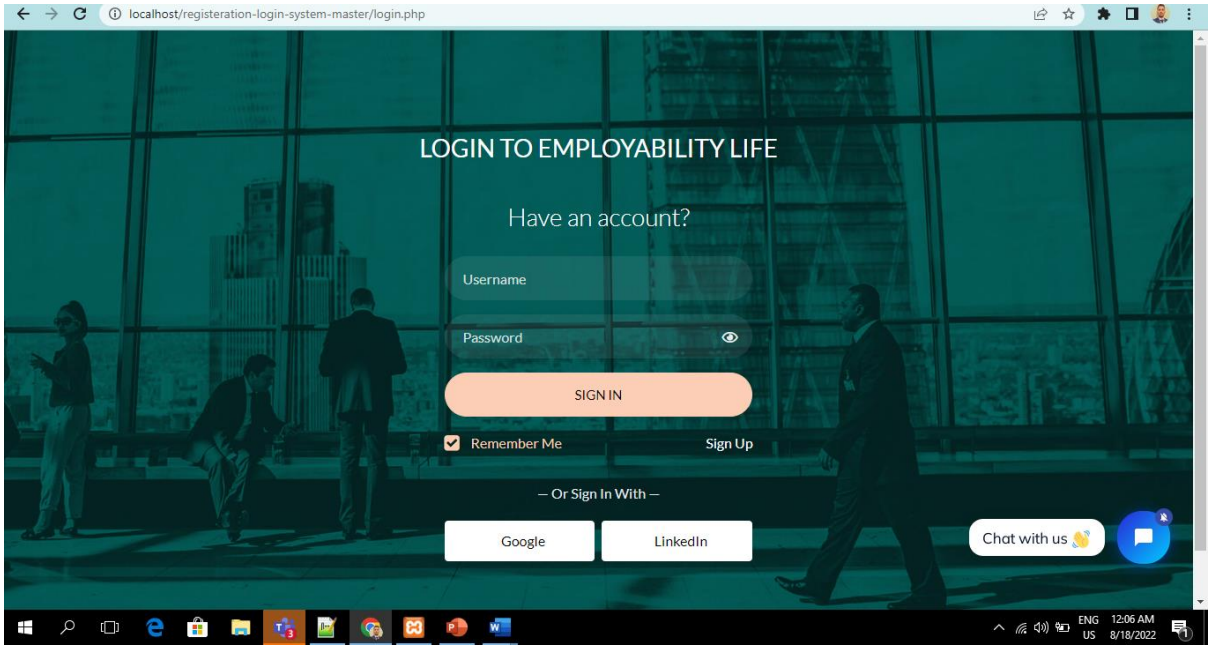
- ✓ Password must contain atleast 8 characters, one upper and one lower case letters



- ✓ Toggle eye functionality has been added

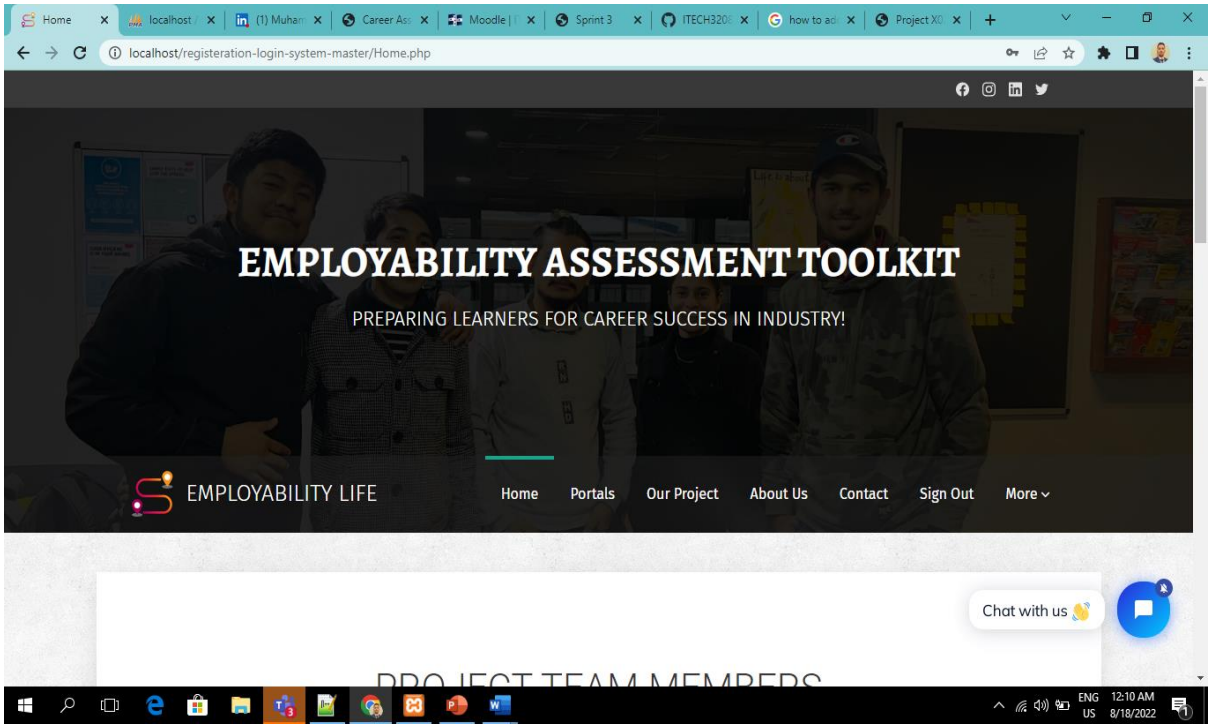


- ○ Development of LOGIN PAGE

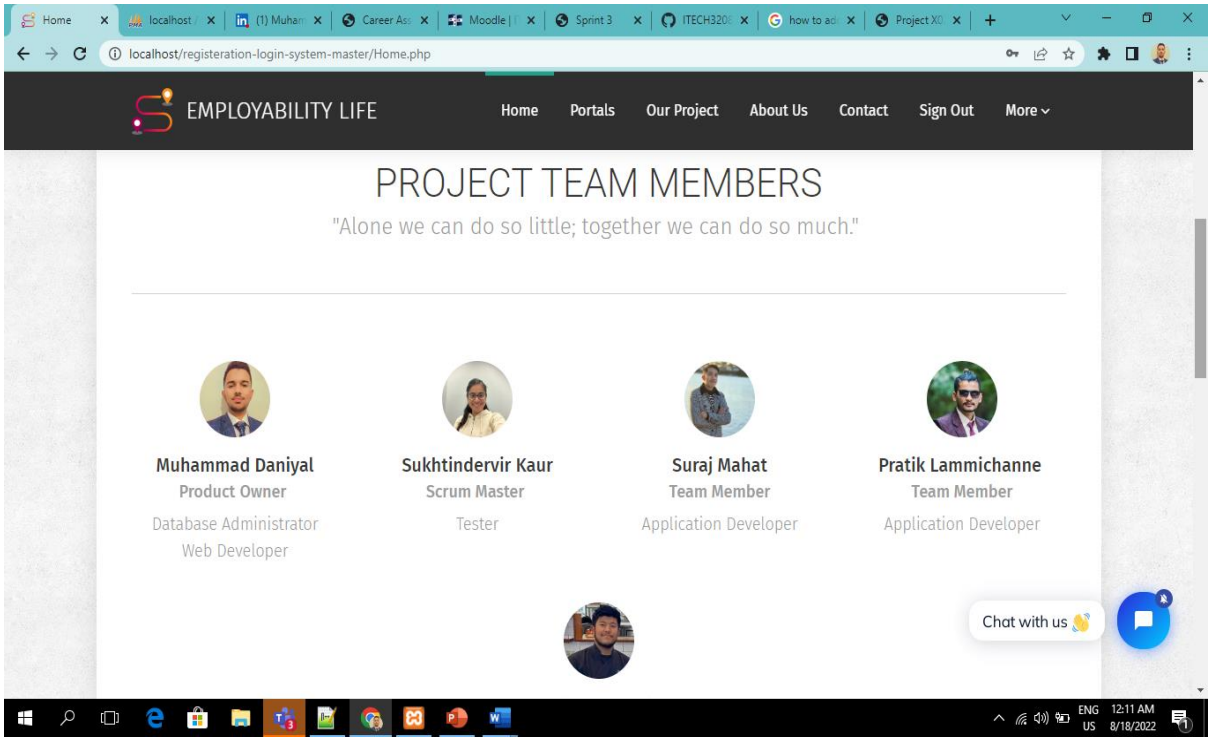


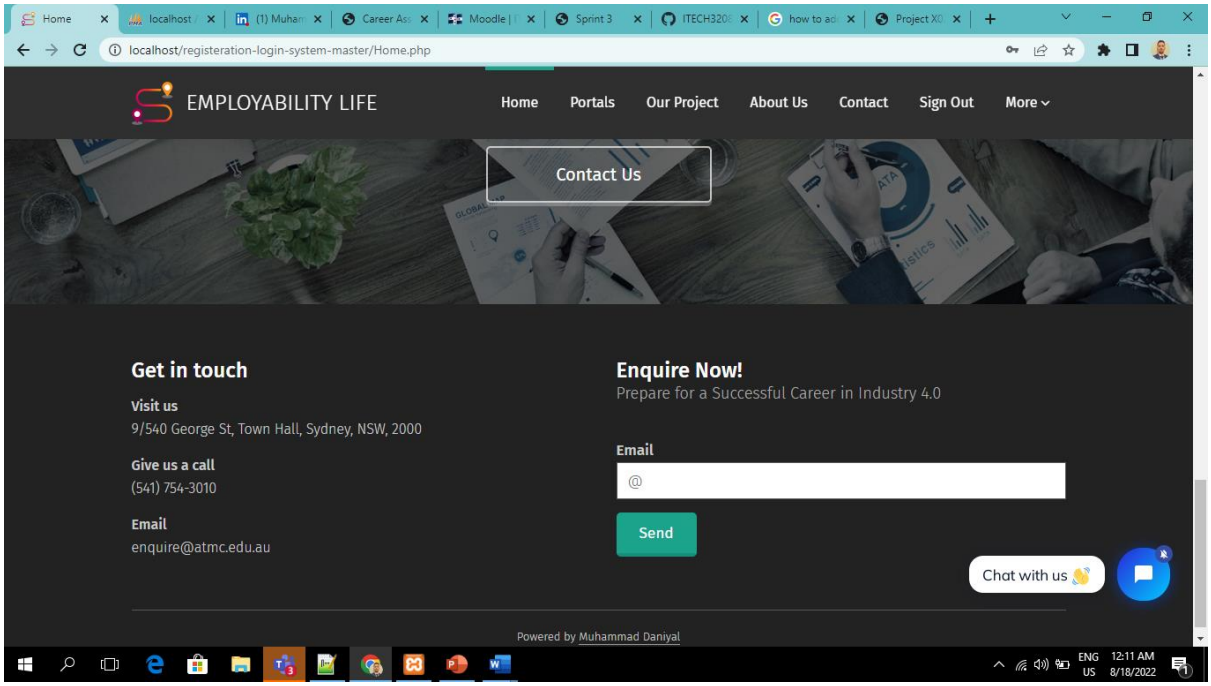
○ Development of HOME PAGE

Following home page was designed and developed by me as part of my project work:

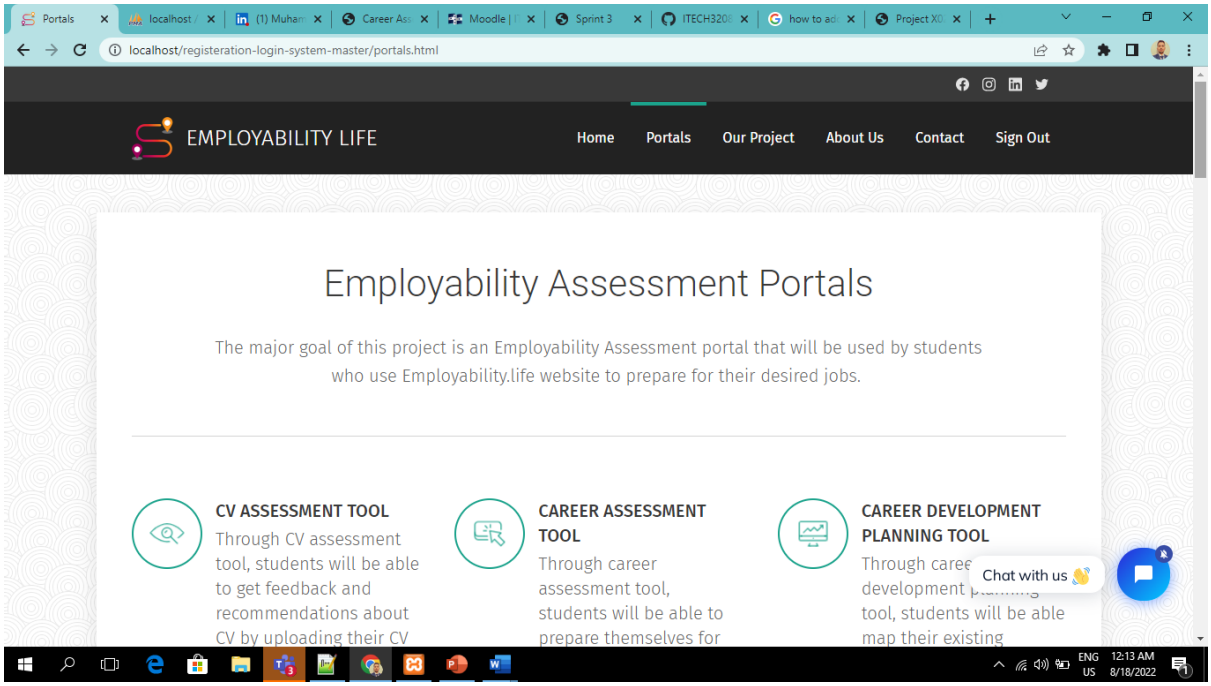


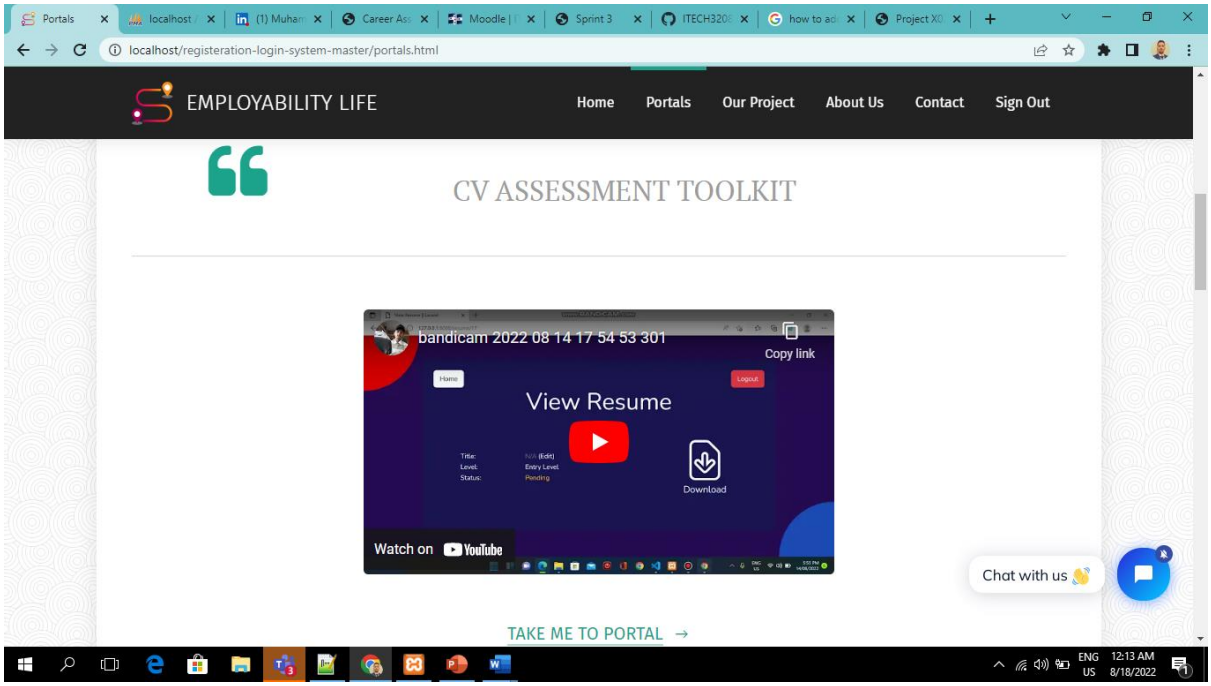
I have provided information about project team members as below:





- Development of PORTALS PAGE




Portals
localhost/registeration-login-system-master/portals.html
EMPLOYABILITY LIFE
Home
Portals
Our Project
About Us
Contact
Sign Out
CV ASSESSMENT TOOLKIT
bandicam 2022 08 14 17 54 53 301
Copy link
View Resume
Download
Watch on YouTube
Chat with us
TAKE ME TO PORTAL →
ENG
US
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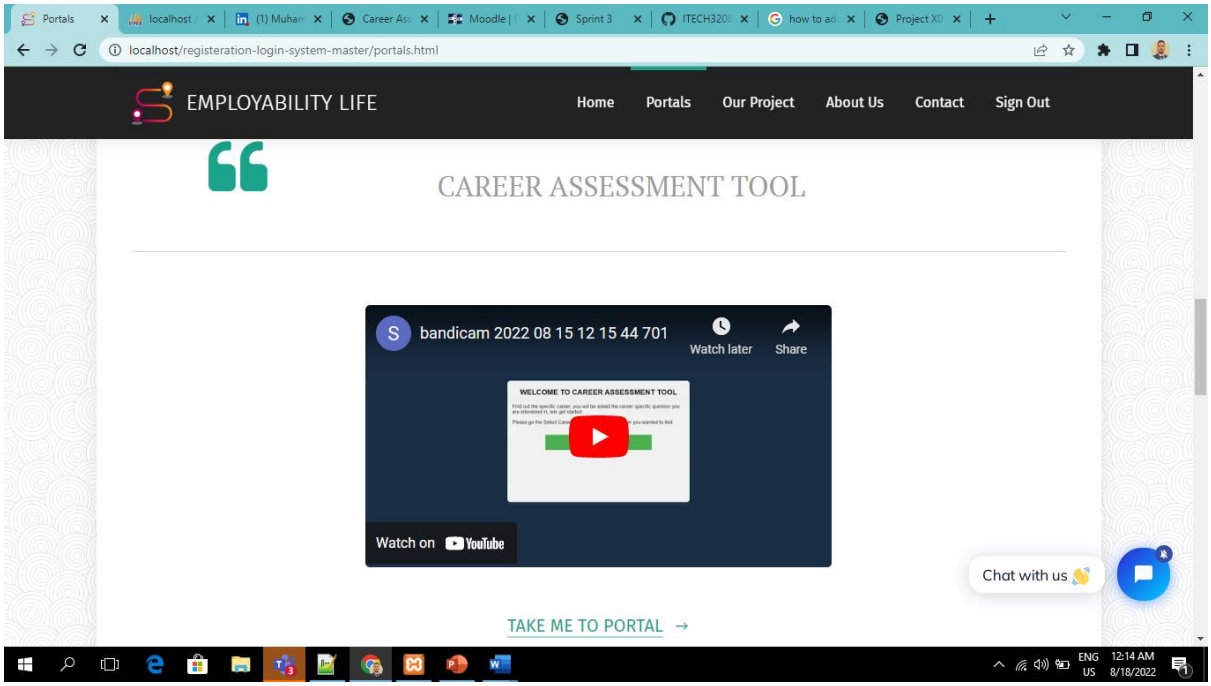
8/18/2022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Watch on YouTube
Chat with us
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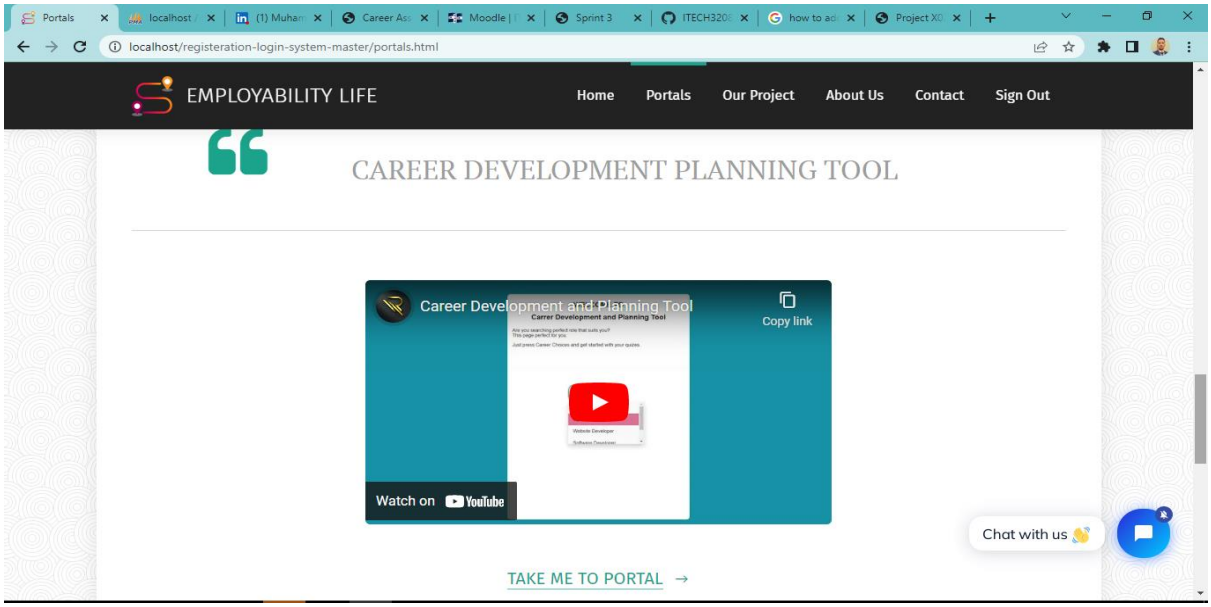
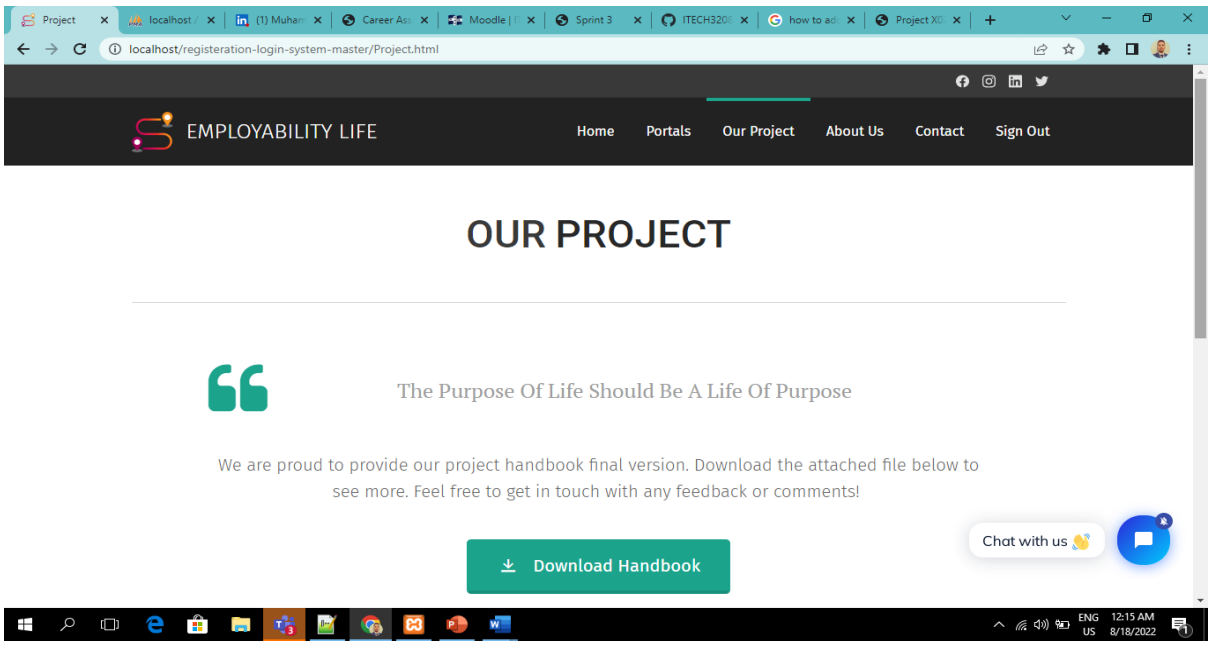


I asked group members to create a short video of each tool so that we could make it easier for the user to use these tools.

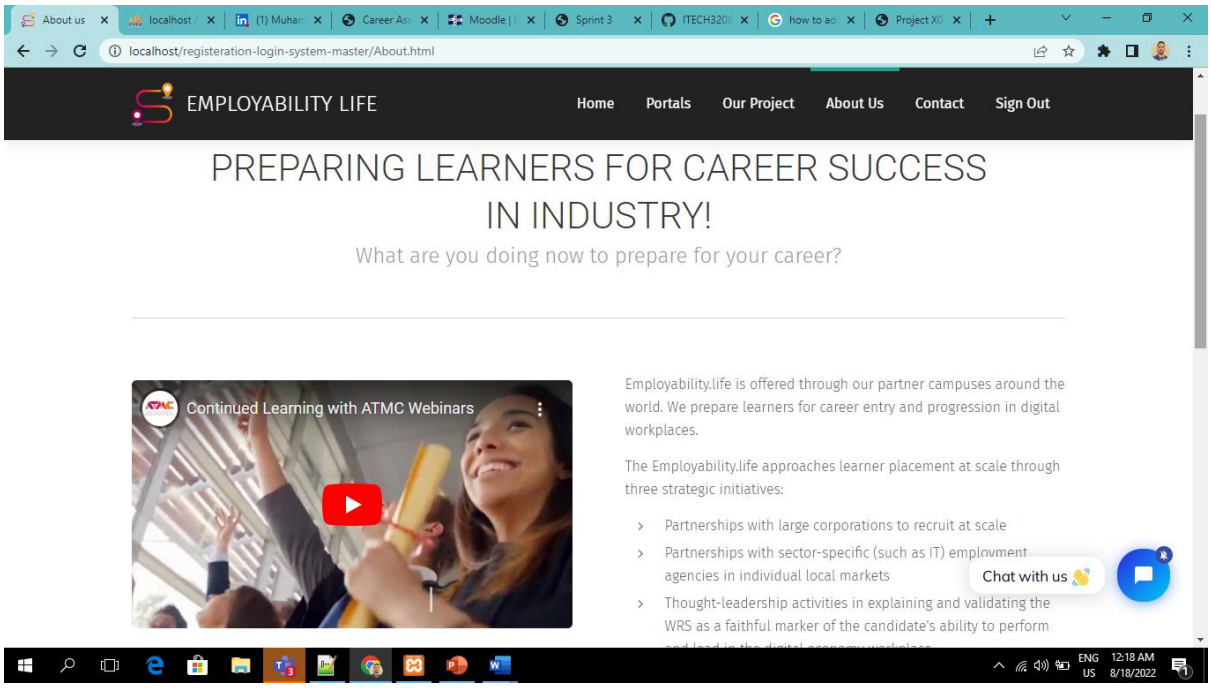
- ## Development of OUR PROJECT PAGE

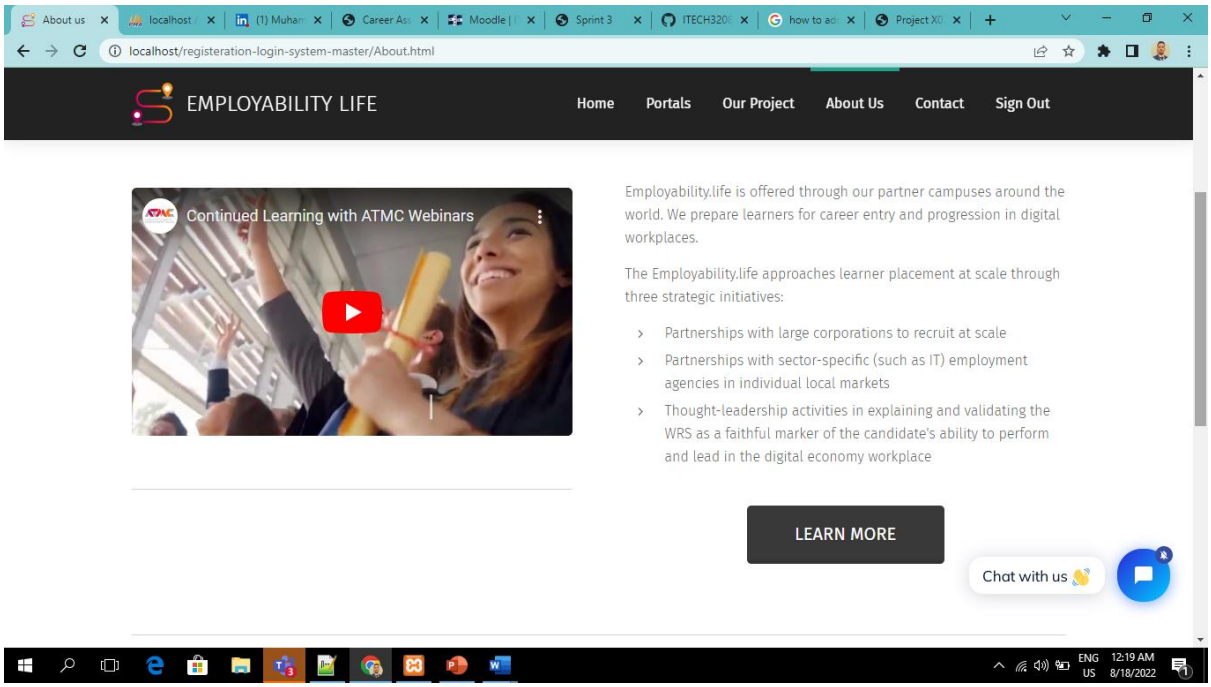
On this page, I have provided our project handbook. Basically, the main objective of the project handbook documentation is to guide the project team in the performance of its responsibilities. It includes designing the prototype, construction, and completion of the project by fulfilling the project requirements to a specified schedule. The main audience of this project are students, and members of the **employability.life** website. the rudimentary goal of this project is to develop a comprehensive employability assessment portal which will be comprised of three main functions i.e., a career assessment tool, a Curriculum Vitae (CV) assessment tool and a career development planning tool. It will benefit the stakeholders in many ways by saving time, managing large volume of candidates, providing more efficient review process and sorting resumes based on keyword identifiers provided by the employer. Basically, CV screening determines whether a candidate is prepared and qualified enough to be considered for a job role based on education and experience of the candidate.



○ Development of ABOUT US PAGE

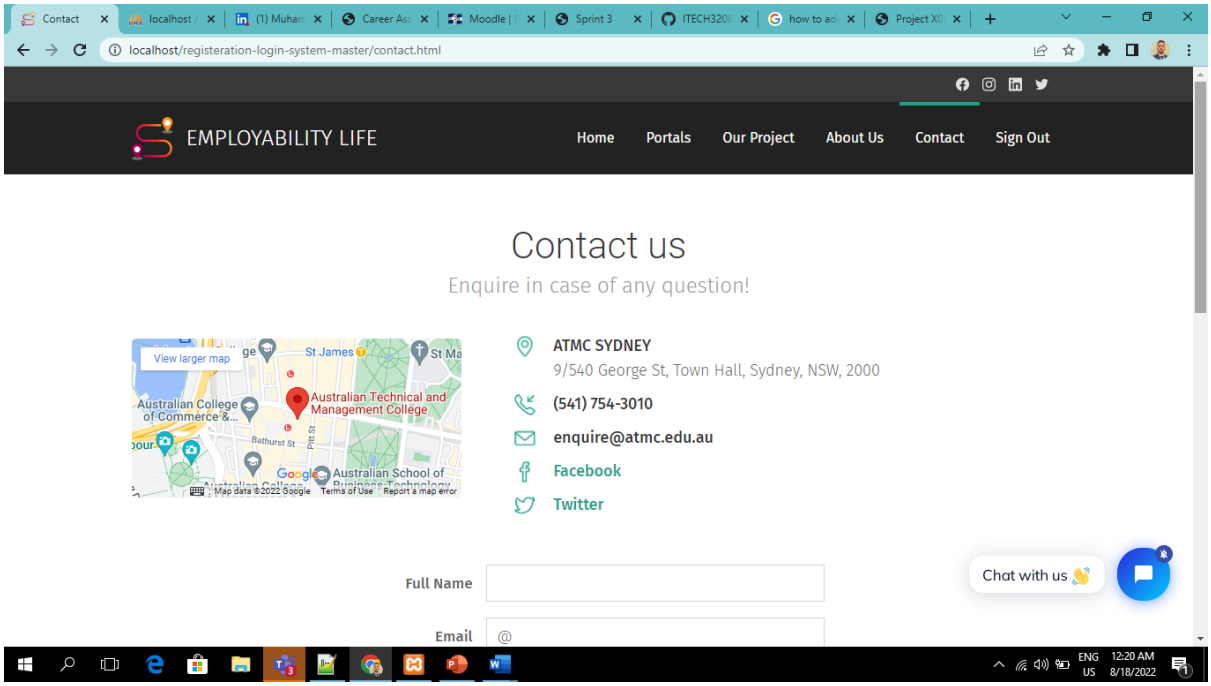
Information about employability has been provided in this section and a short video has also been included. An external link has also been provided to employability site:

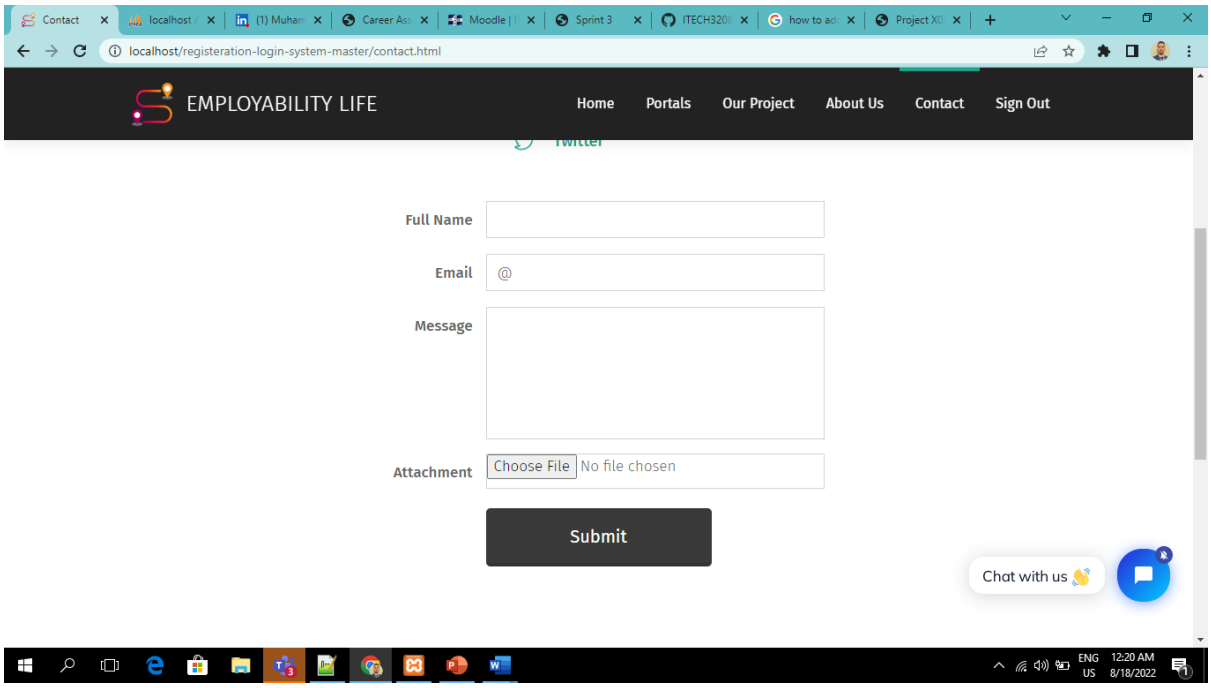




○ Development of CONTACT PAGE

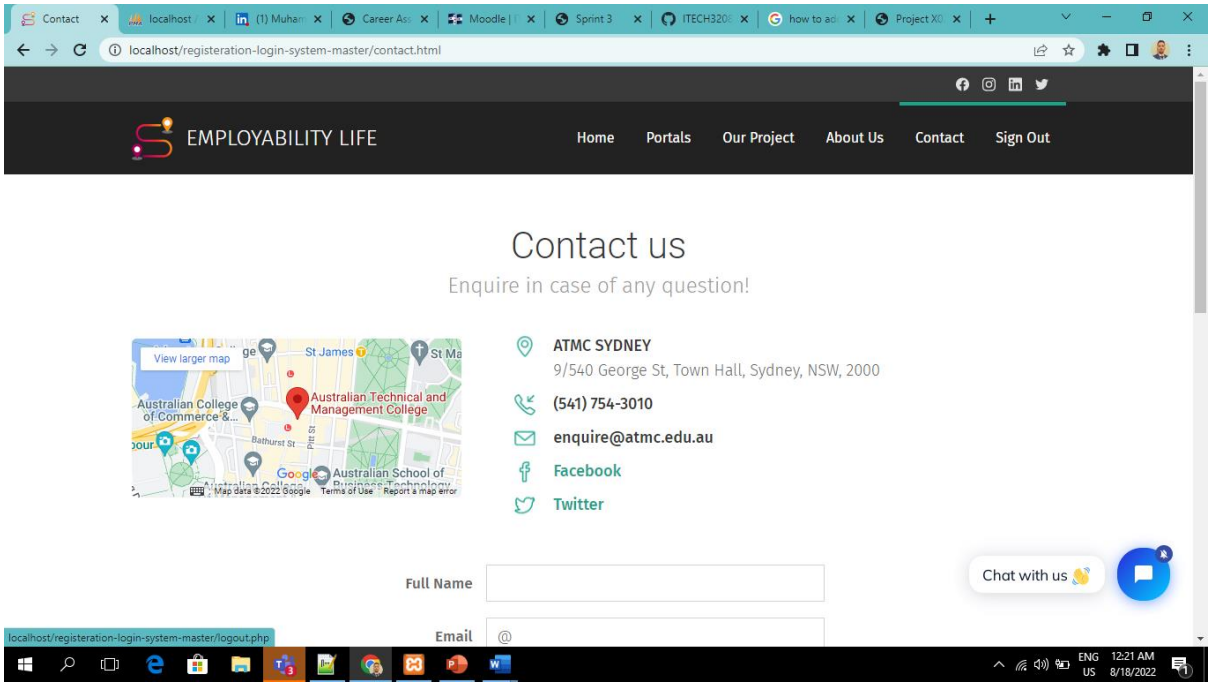
Here the user can fill-up the information to get in touch with the expert in case of any enquiry:



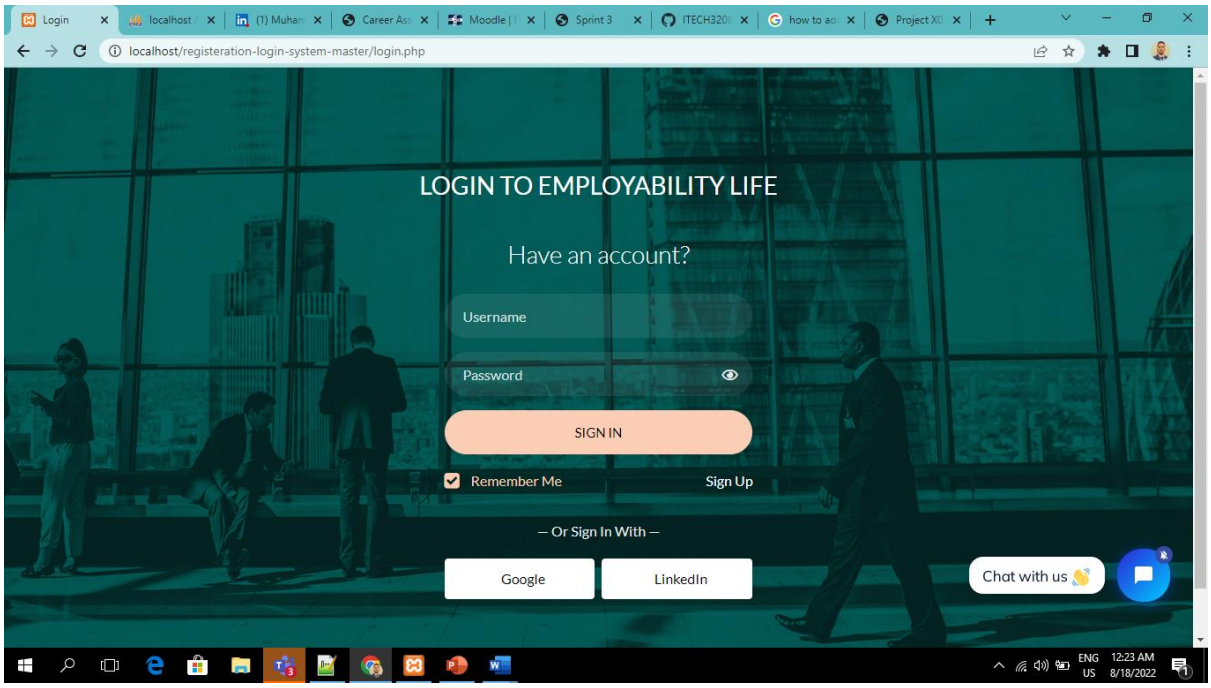


○ Development of SIGN OUT PAGE

This button calls logout.php file and ends user session as it can be seen in the following screenshot:

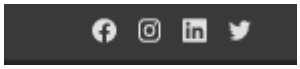


After clicking this button user will be taken back the the login page:



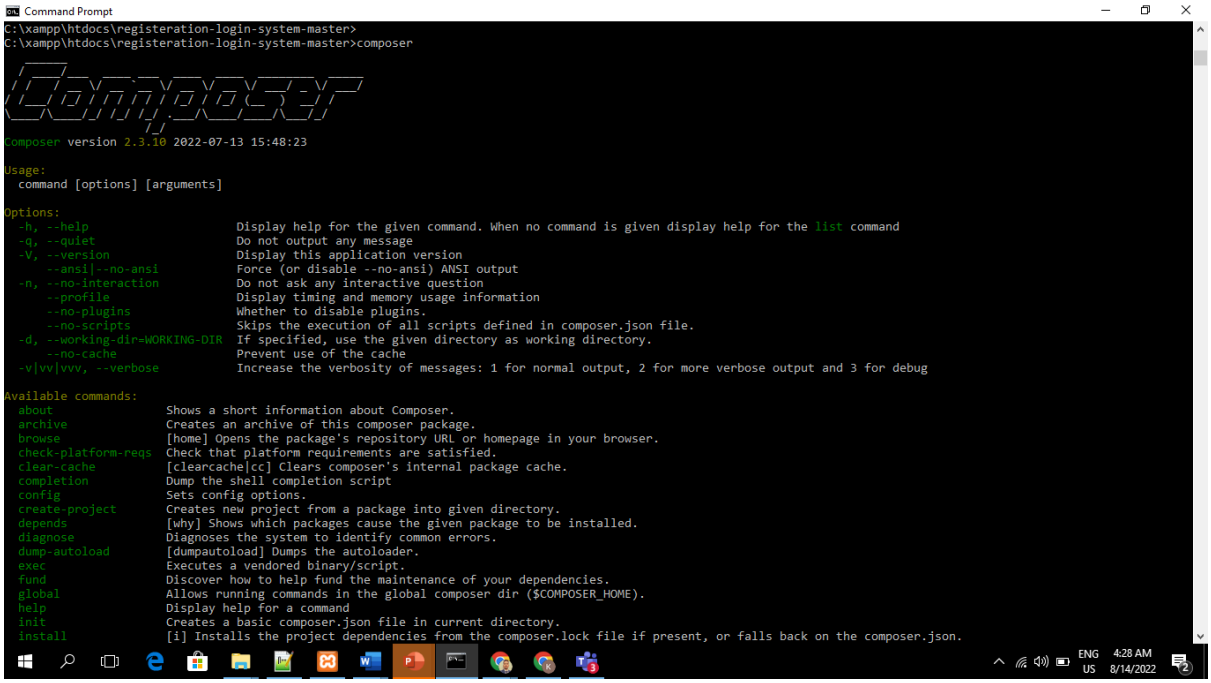
○ Social media links Functionality

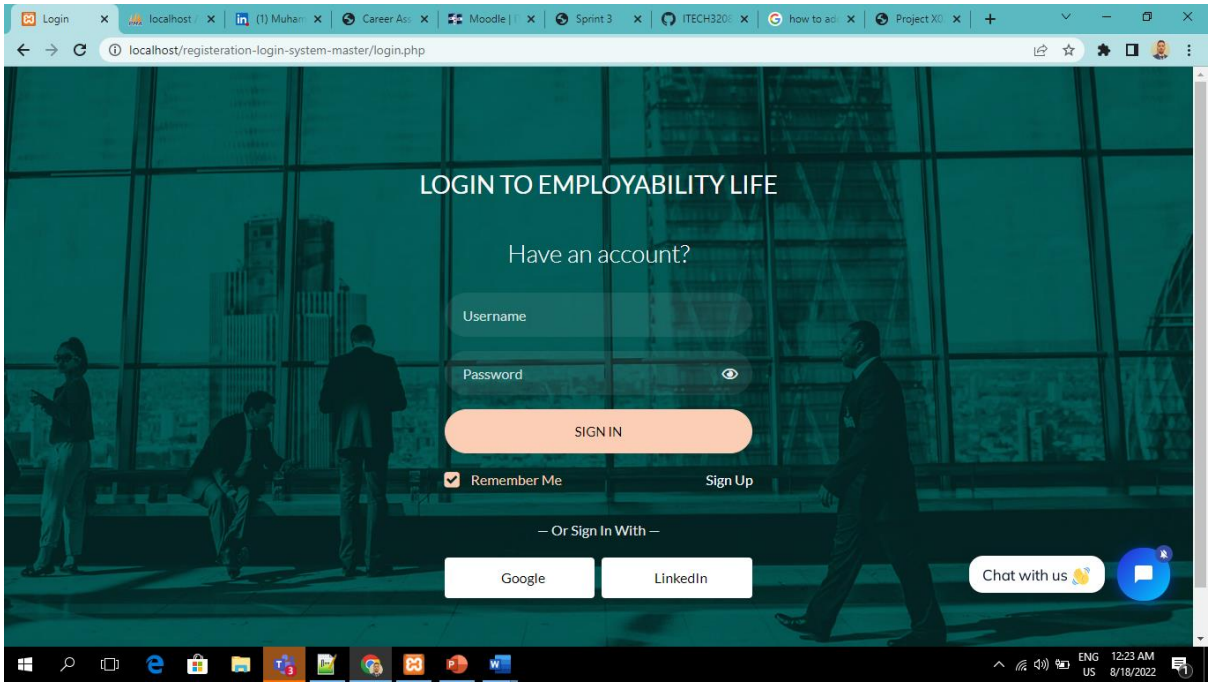
Social media links have been provided to employability facebook, Instagram, linkedIn and twitter accounts:



○ Login with Google functionality using oAuth APIs, composer, and Java Library

Firstly, I downloaded composer as it can be seen in the following screenshot:

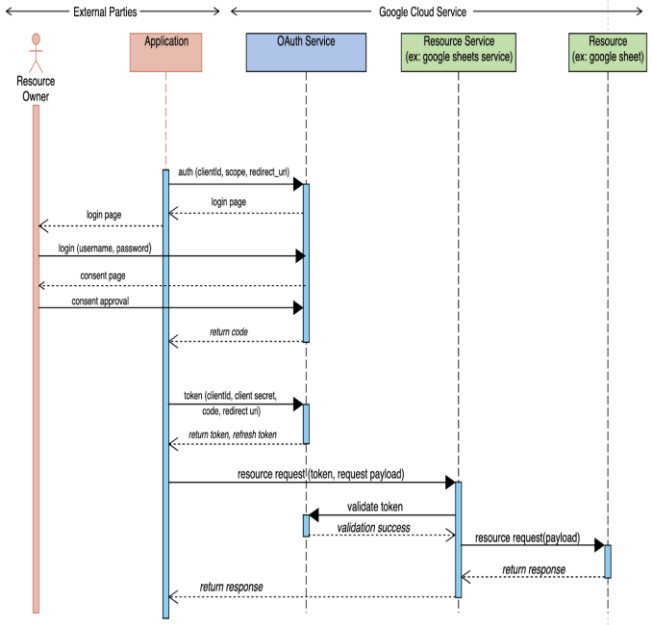


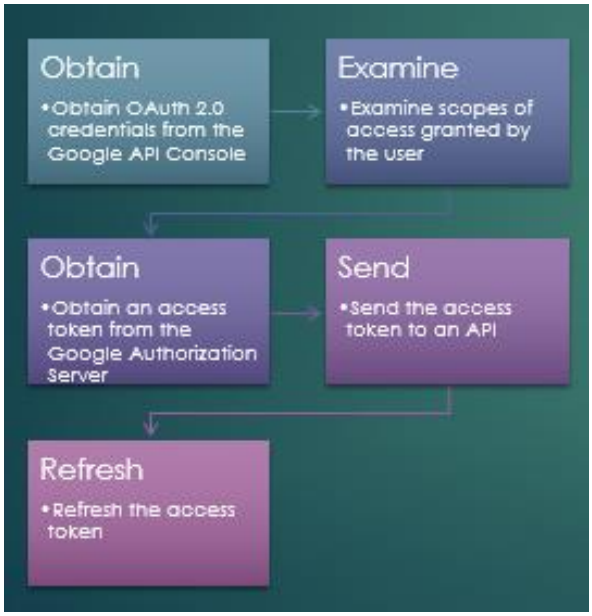


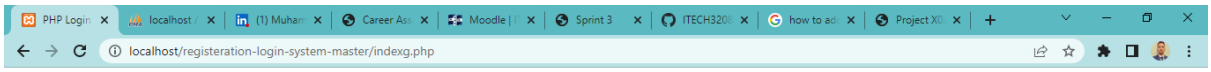
After the user clicks Google icon, they will be taken to a new page where the user will be able to review the information that is to be taken by the site.

○ Fetch user GOOGLE account information after login

Following diagram provides an overview of the working of the Google OAuth credentials:







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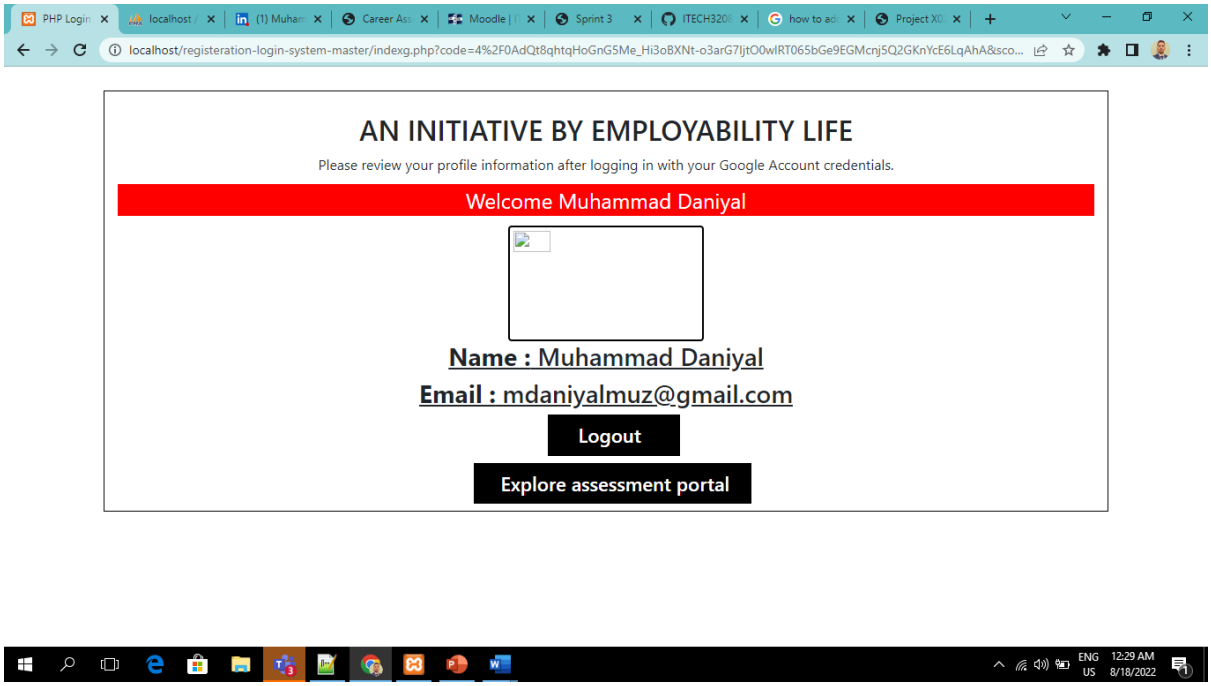
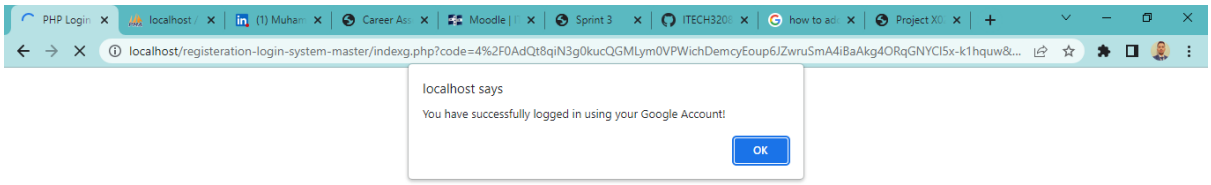
Please review your profile information after logging in with your Google Account credentials.

Login With Google

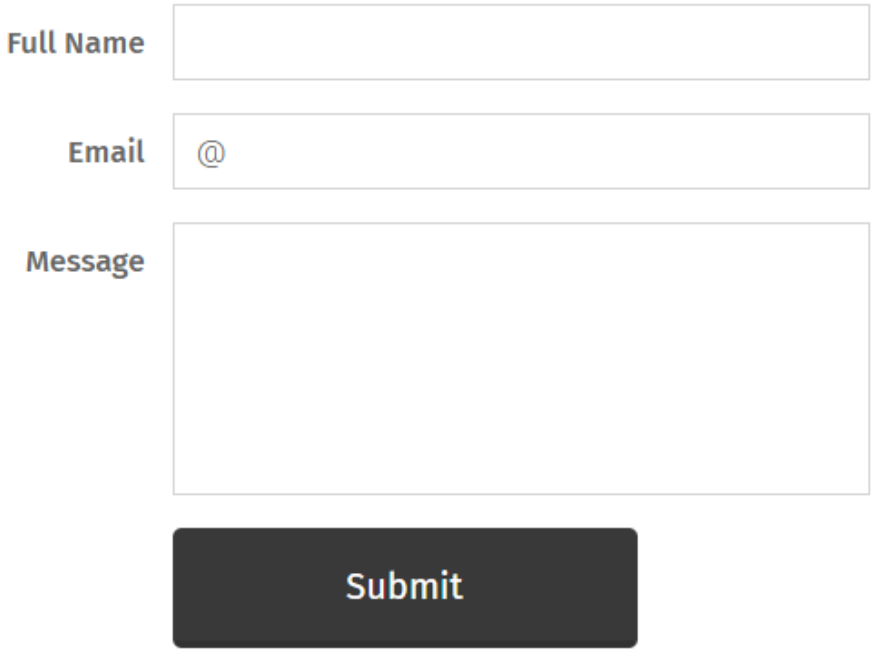
Following screenshot gives information about the user data that is to be collected for login purposes:





○ Development of contact form

A contact form has been added for user to get in touch with expert in case of any enquiry:



○ Functionality of email forwarding

Once the user fills-in information in the required fields, I'll be getting the response via email as it can be seen from the following screenshot:

Someone just submitted your form on http://localhost/.

Here's what they had to say:

Name	Value
Full_Name	Muhammad Daniyal
Email	m18176587@gmail.com
Message	Hey
send	007
attachment	CV_MUHAMMAD_DANIYAL.png

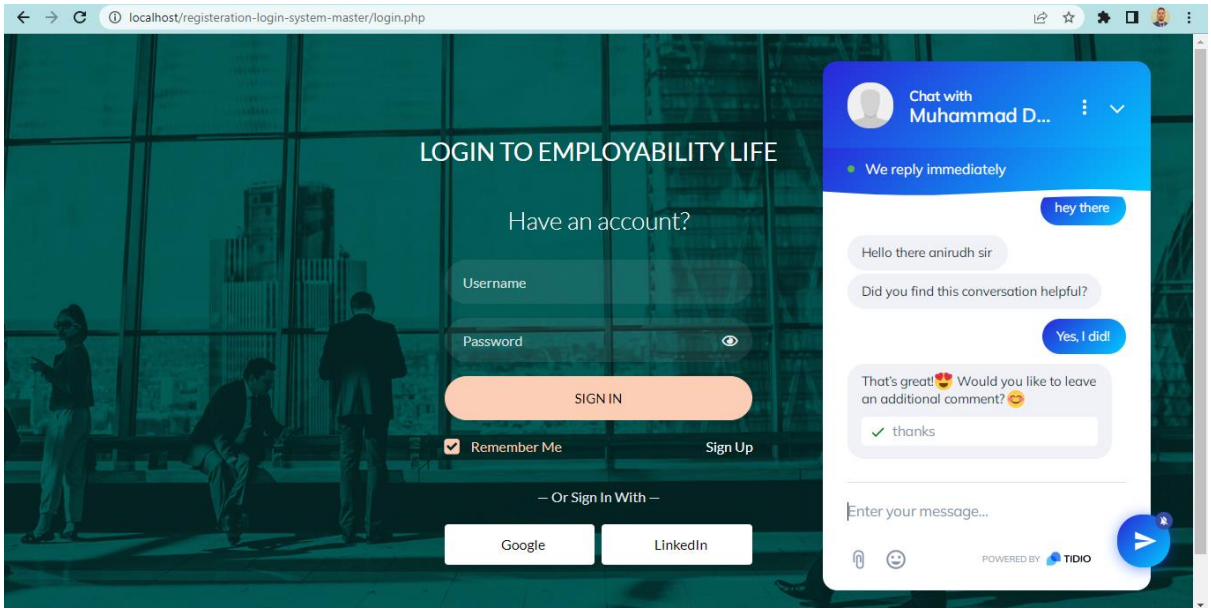
Submitted at Mon, Aug 15, 2022 4:26 AM (UTC)

- ## Live chat-bot functionality:

One of the biggest achievements in this project so far also includes live chatbot for which I had to research for 1 week to find out a way to add in website. This chatbot has following functionalities:

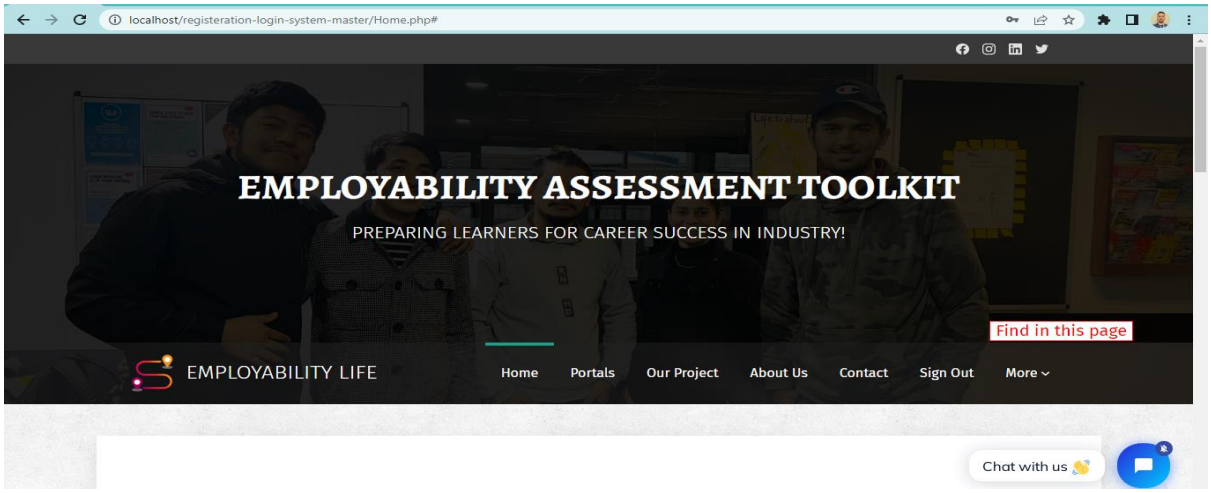
- It provides real-time responses
- It helps user to get in touch with an expert
- It helps users to solve problems in real-time
- With 24/7 chat capabilities, bot can answer customer questions instantly, without requiring them to call service team between working hours.
- It provides user the functionality to rate the conversation.
- It provides automated welcome message to users.

Following screenshot provides chat-bot functionality:



- ## Search utility functionality:

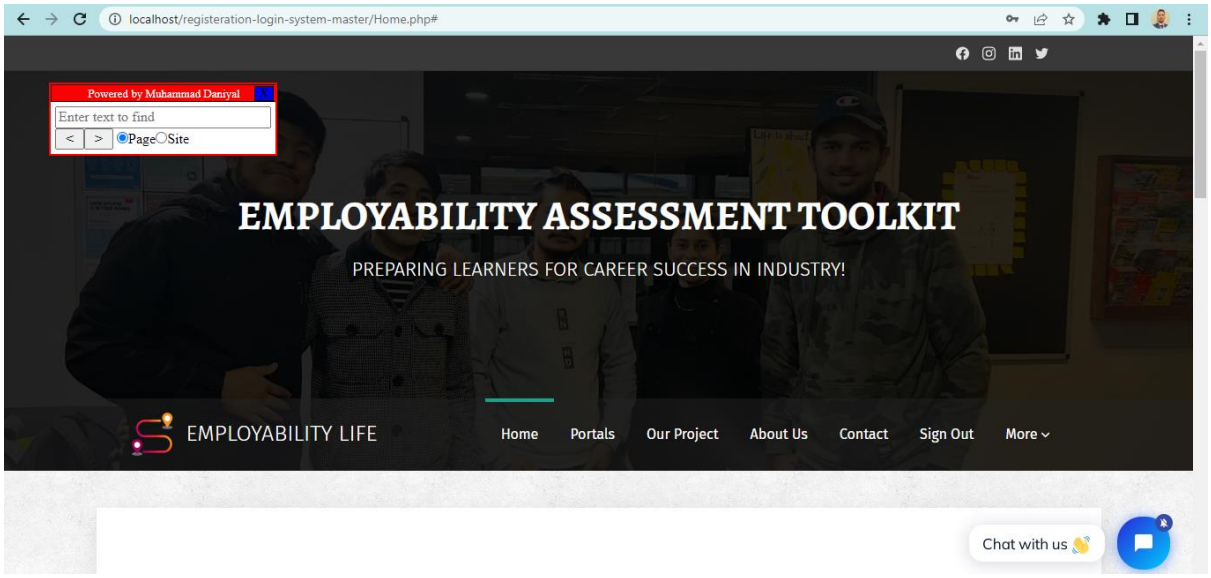
It has always fascinated me to have a search functionality like Google (Ctrl+F) to help the user find specific information that they are looking for. In previous semester vacations, I was researching on this topic and after one month, I was able to find the correct information. I have deployed the find in the page and site functionality on the website:



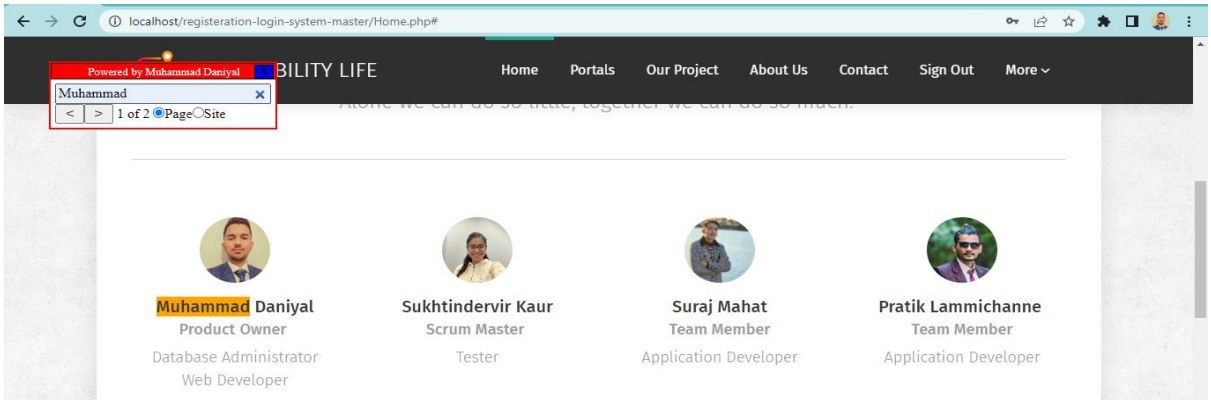
Our client was really happy with all the improvements that he had suggested us and he appreciated our work. Following screenshots provide the functionality of “Find in this page” button:

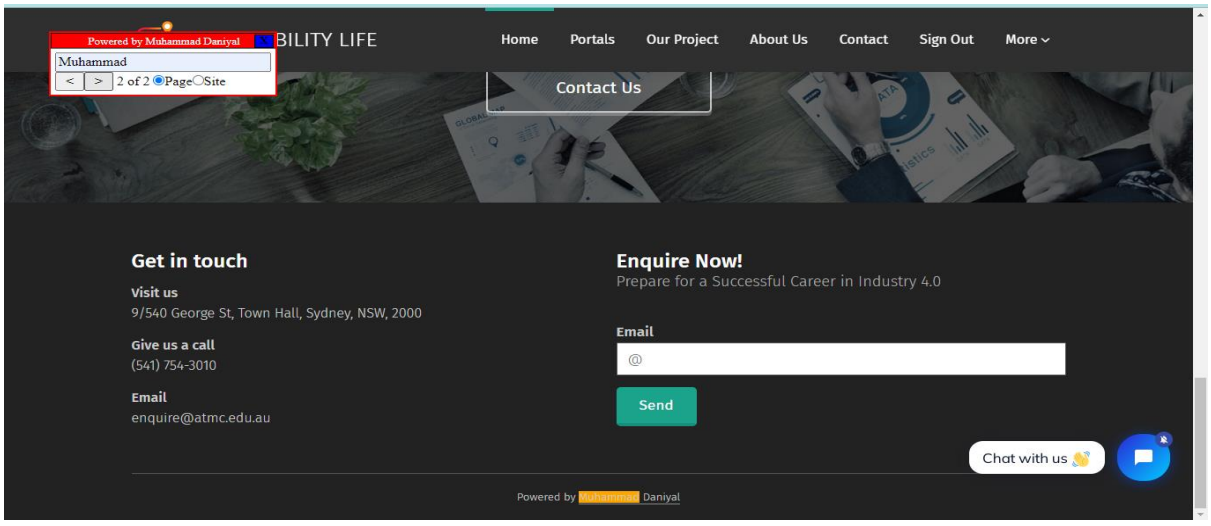
Step 1: User will need to click more button in the navigation as shown above.

Step 2: A pop-up will come with text input field for the user to search information as shown below:



Step 3: Lets search for word “Muhammad”. It will display the word count throughout the web-page and will highlight the required content as shown below:





GitHub Links:

- https://github.com/ITECH3208andITECH3209feduni/project-repo-project-x02/blob/master/db.php
- https://github.com/ITECH3208andITECH3209feduni/project-repo-project-x02/blob/master/registration.php
- https://github.com/ITECH3208andITECH3209feduni/project-repo-project-x02/blob/master/login.php
- https://github.com/ITECH3208andITECH3209feduni/project-repo-project-x02/blob/master/logout.php
- https://github.com/ITECH3208andITECH3209feduni/project-repo-project-x02/blob/master/db.php
- https://github.com/ITECH3208andITECH3209feduni/project-repo-project-x02/blob/master/config.php
- https://github.com/ITECH3208andITECH3209feduni/project-repo-project-x02/blob/master/Home.php
- https://github.com/ITECH3208andITECH3209feduni/project-repo-project-x02/blob/master/portals.html
- https://github.com/ITECH3208andITECH3209feduni/project-repo-project-x02/blob/master/About.html
- https://github.com/ITECH3208andITECH3209feduni/project-repo-project-x02/blob/master/Project.html
- https://github.com/ITECH3208andITECH3209feduni/project-repo-project-x02/blob/master/contact.html
- https://github.com/ITECH3208andITECH3209feduni/project-repo-project-x02/blob/master/Search_Utility

Non-functional requirements:

Platform

The employability assessment portal which we are developing will run in the Moodle platform of the employability.life. It will be using many technologies. Everyone will be able to easily see these portals on their personal computers, tablets, and mobile devices.

Communication

The portal will need to connect to the mail server using Simple Mail Transfer Protocol (SMTP), POP3 and IMAP through which users will be able to fill out the online query form to helpdesk of E/L. POP3 protocol works on two ports which are port 110 and port 995. IMAP protocol works on two ports which are port 143 and port 993. SMTP protocol works on three ports which are port 25, port 2525 and port 465. The portal will need to connect to the HTTPS server using (Transmission Control Protocol) TCP. HTTPS works on port 443 for web browsing. It provides encryption and transport over secure ports.

Performance

Following performance-based requirement will be implemented in our design:

Encoding mode = Quality

Key frame = 5

Frame rate = 60 fps

Audio bit rate = 32 kbps

Field order = Progressive and NTSC

Profile = Baseline

Level = 4.3

Render at Maximum Depth=On

Bitrate Encoding VBR 2 pass

Target Bitrate = 2

Maximum Bitrate = 2

Key Frame Distance = 75

Audio Format = ACC

Channels = Mono

Audio Quality = High

Audio Sample Rate = 32000 Hz

Audio Precedence = Bitrate

Audio Bitrate (kbps) = 32

Security and Privacy

For the development of open-source platform, security raises many concerns. Our team will be able to fix any detected bugs and vulnerabilities quickly. The organisation will have complete control over the data because we would not be able to monetise any student data or use organisational data. We will offer full commitment to privacy that is full data control and transparency. Password will be stored using PhpMyAdmin. The organisation will need to adhere to local privacy legislation requirements. Two factor authentication will be used for user's data. We will be using Moodle privacy API that plug in developers to implement changes in GDPR compliant.

Audience, Usability and Accessibility

People from all over the world will be able to use it as an open-source platform. Over 100 language translation will be provided using Google Translator API. The intended users are students and educational institutes. The interface will be quite simple to use. It will provide equal functionality and information to all people. There will not be any barriers for users regardless of disabilities, assistive technology that are used, different screen sizes and input devices. From the site administration panel, employability admins will be able to find accessibility toolkit under admin tools in plugins sections. Three types of accessibility issues will be covered that is visual, auditory and mobility.

Reliability

System availability, up/downtime, fault logging, redundancy, error tolerance will be fixed and handled quickly in the time of any fault. The open-source software will be maintained and upgraded regularly. It will be flexible management system that will create for assessments. It will be user friendly interface which is easy to access and offers content management and security. Modifiability

The employability assessment portal will allow authorised educational institutions, staff members and students to customize the appearance of the platform through changing colour scheme, font style, readability, and font sizes.

Amendments made in the tool will only reflect to an organizational institution, staff, or students. A non-programmer will be able to easily amend the tool appearance. The system will ask the user in case if any new version of the software is available by popping up a notification.

Economic

There are some economic constraints/requirements in our project development. Choice of platform, development tools, frameworks and libraries, external services, deployment targets and more are all dictated by economic constraints. This project is funded by employability.life under ATMC initiative. Employability is responsible for providing access to the site code so that we could add an extra feature which is employability assessment portal after approval from the client.

Legal

Licencing and certification will be provided by employability.life under Moodle consent to amend the site for organizational and educational purposes.

Standards

We will need adhere to existing standards for file formats, network systems, or to be compatible with other systems or products under employability requirements. The assessment portal will be designed according to employability aesthetics and designs to meet client's needs.

Conclusion:

To recapitulate, this project is proving very helpful for me since I'm getting insightful knowledge on how to manage project effectively and efficiently. External dependency of our project is to work on upcoming sprint after the completion of previous sprint because we have divided the project in sprints to complete all development of the portal. We need to finish all sprints on the allocated time to achieve our main goal of the project. Dependencies frequently take the form of an approval. I'm responsible for keeping track of external dependencies closely to ensure that the project is completed on schedule. I'm feeling enthusiastic for upcoming sprints.