



GRIFFITH COLLEGE DUBLIN

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Subject:	Software Engineering for Web Application				
Study Mode:	Full time	<input checked="" type="checkbox"/>		1.1.1.1.1 P art - ti me	
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Assignment Title:	Assignment 3: Build a Dynamic Web Application				
Date due:	10 / 05 / 2024				
Date submitted:	11 / 05 / 2024				

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DYNAMIC WEB APP

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2 Introduction

2.1 Description of the project and purpose of document

(1-2 paragraphs) Front-end functionality

This project is a website designed using HTML, CSS, and a little bit of JavaScript. HTML is a markup language that helped create all the heading, subheadings, and internal links to different sections on the website. The website was styled using CSS. We used two files for this website for organization purposes. We could use one file but, we ultimately decided to use two files. JavaScript was also used to make the content of the site dynamic. The main purpose of this site is to get a good grade for this module, thereby passing this module and ultimately the course.

2.2 Common features

(1-2 paragraphs) Features common to all pages

There are a lot of common features in this site ultimately, we will try and highlight the most important. The first feature that is common throughout the site are the buttons. The buttons in the home page are the same throughout the website. The font family is also the same throughout the site.

3 Back-end functionality

3.1 How to log in and make changes

To log in users are required to fill the sign in form after clicking the login button in the header. User login is validated by username and record in the database. The username and password that is entered for login is compared to database record and if they match the user is allowed access to go and access classes.

3.2 User Groups/ Permissions

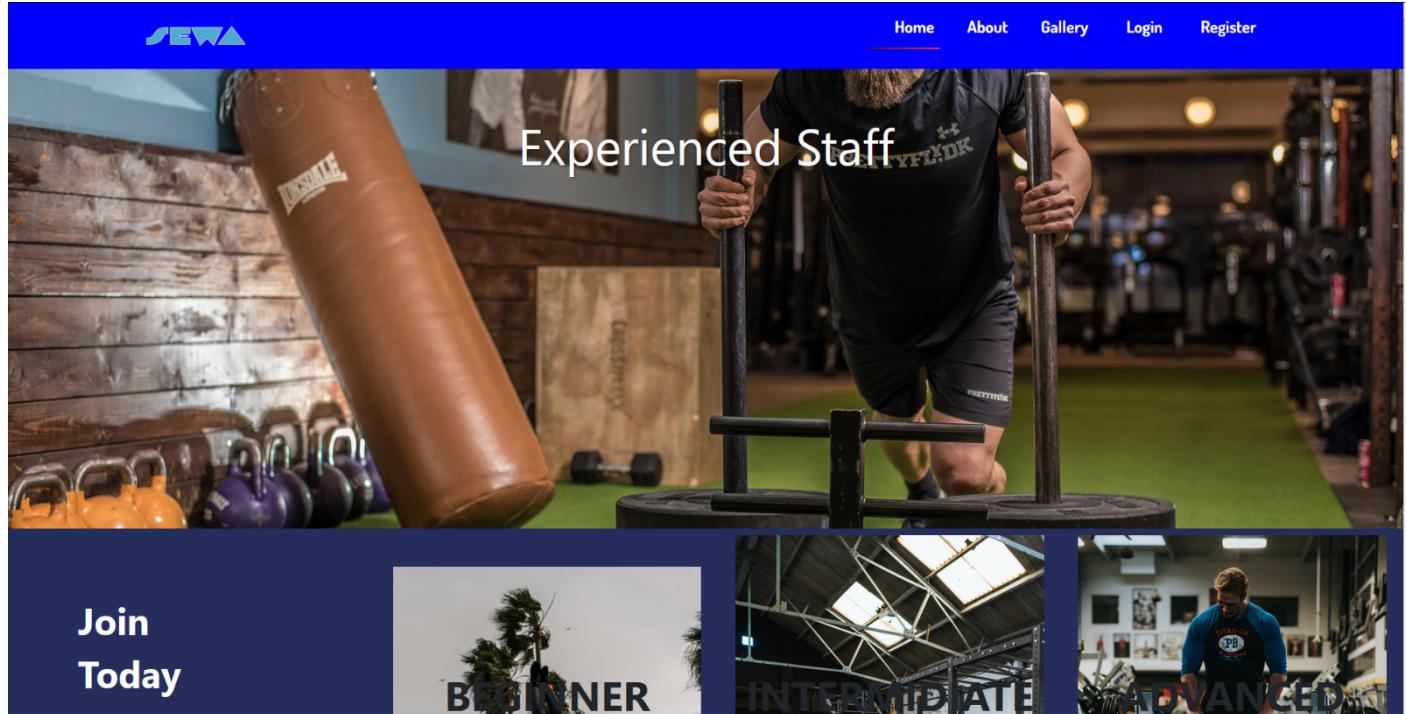
User permissions are maintained through tier system. Where we have free tier with no access to any classes, beginner tier with access to 1 class, intermediate with 2 and advanced with full access. The admin user has access to open admin portal where user management can happen.

The tiers are assigned to users accordingly in the database, when a user is created it is defaulted to free tier which can be later changed by admin in portal. In future a feature to have payment and tier assigning according to payment will be implemented.

4 Pages

Screen shots and an explanation for each of the following.

4.1 Index



4.2 Registration

Sign Up

First Name

Last Name

Username

email

Password

Repeat password

Sign Up

4.3 Classes/Services

The screenshot shows a website for a gym named "SEWA". The header has a red background with the logo "SEWA" and navigation links: Home (underlined), About, Gallery, Admin, and LogOut. The main content area features a large black and white photograph of a woman lifting a barbell. Overlaid on the image is the word "Classes" in blue and the text "Here are the classes we offer in our gym." in white. Below the main image are three smaller square images: one of a woman doing Pilates, one of a boxing match, and one of a man using a resistance machine. Each of these images also has a blue label with its respective class name: "PILATES", "BOX", and "HEATED POLAR". At the bottom of the page is a large, colorful sunset photograph with the text "Join Community" overlaid in blue.

4.4 Class/Service Details Page

Class page when the user is the tier that has access to page



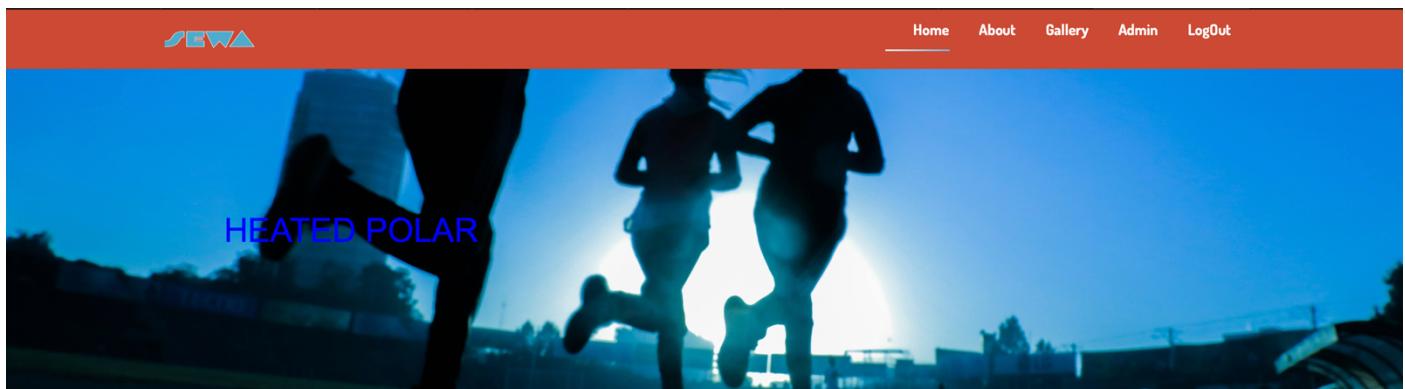
BOXING

This is a contact sport that involves two individuals. While you train with us, you will be coached by a trainer who happens to be a former world heavy weight champion. You would also be provided with the equipment and gears you need during your time here.

- Bring a towel
- All welcome



Class page when user does not have appropriate tier access



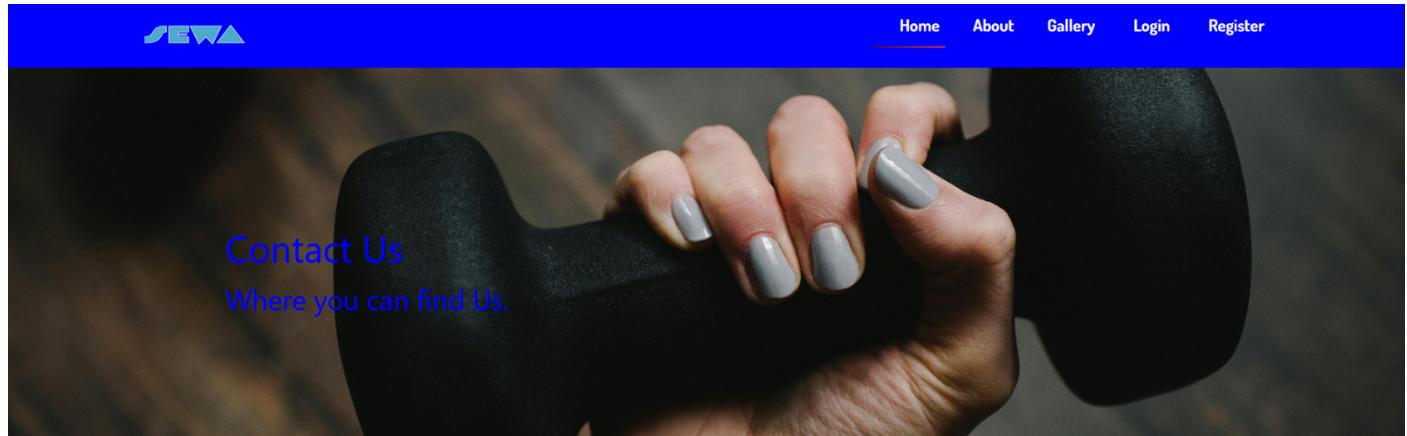
HEATED POLAR

You do not have appropriate tier to view this content



4.5 Testimonial

4.6 Contact Us



Address: South Circular Road, Dublin 8

Email: binam.shrestha@studnt.griffith.ie

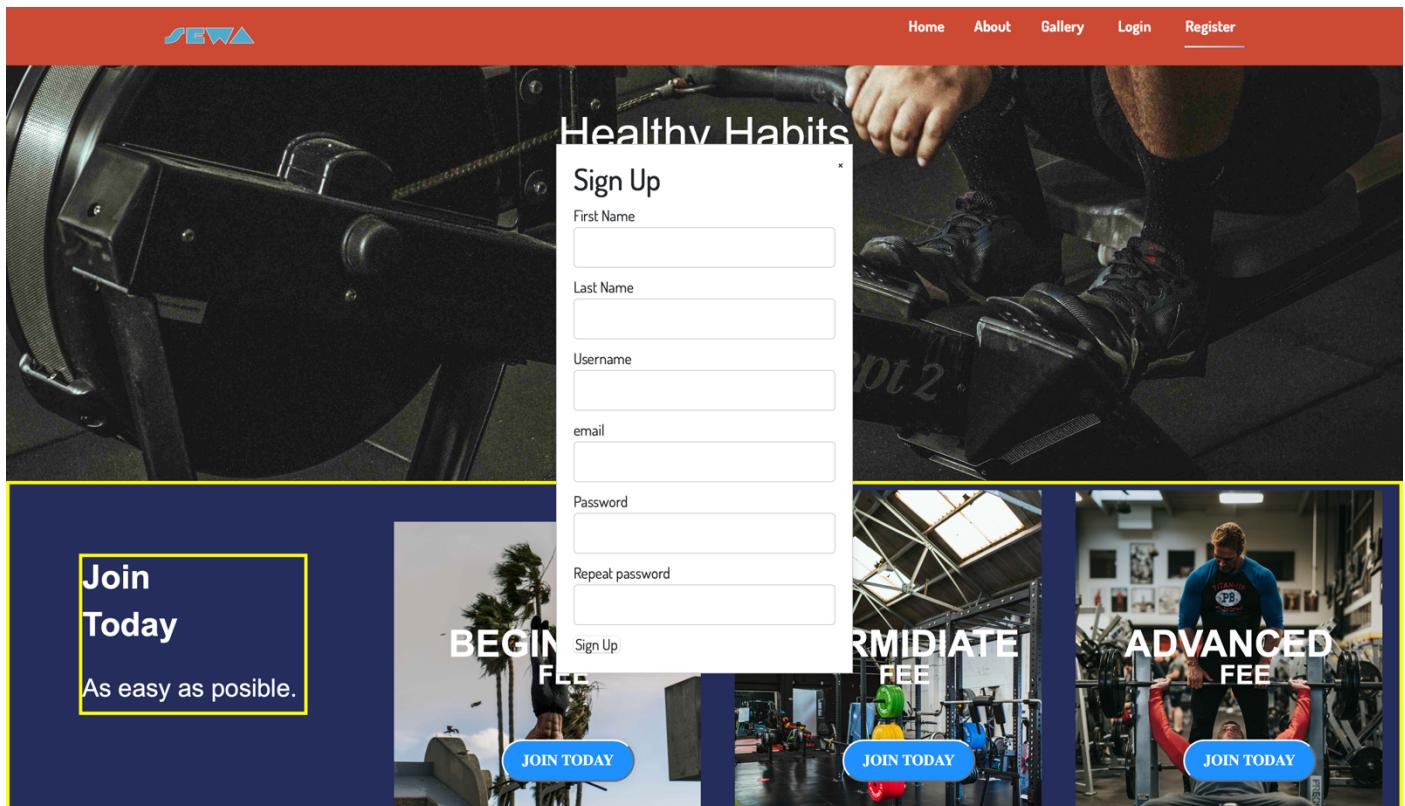
5 Additional pages

Screen shots and an explanation for each of the following.

5.1 Index Edit

5.2 Registration Edit/Update/Delete

Registration:



Allows the user to register for the site. Checks for duplicate emails.

Admin portal:

A screenshot of the "Sign Into Admin Portal" page. It features a red header with the "SEWA" logo and a navigation bar with links for Home, About, Gallery, Login, and Register. The main form has fields for Email address (containing "admin@email.com") and Password (containing "*****"). A "SIGN IN" button is at the bottom. Below the form, there's a footer with four sections: "About Us" (with "Dummy Text" and a link "Click here to learn more"), "Contact Us & Address" (with "Address: South Circular Road, Dublin 8", "Email: binam.shrestha@studnt.griffith.ie", and "Email: chukwuemekawisdom.arinze@studnt.griffith.ie"), "Quick Links" (with links to Index, About, Gallery, and Classes), and "Social Media Links" (with icons for LinkedIn, Facebook, and YouTube).

In admin portal, admin user logs in to manage users. They can add, edit details and delete users from database.

Admin dashboard:

The screenshot shows a web application interface. At the top is a red header bar with the 'SEWA' logo on the left and five navigation links on the right: Home, About, Gallery, Admin, and LogOut. Below the header is a large black title 'Dashboard'. Underneath the title is a blue link labeled 'Users management'. The main content area is white and currently empty. At the bottom is a red footer section containing four columns: 'About Us' (with 'Dummy Text' and a link 'Click here to learn more'), 'Contact Us & Address' (with address 'South Circular Road, Dublin 8', email 'binam.shrestha@studnt.griffith.ie', and another email 'chukwuemekawisdom.arinze@studnt.griffith.ie'), 'Quick Links' (with links to 'Index', 'About', 'Gallery', and 'Classes'), and 'Social Media Links' (with icons for Facebook, Twitter, and YouTube). To the right of the footer is a small preview window showing a mobile device displaying the 'Dashboard' page.

A simple dashboard for admin panel.

User management:

Users management

ID	Username	Email	Tier	Edit Delete
1	testing	test@gmail.com	4	Edit Delete
5	Admin	admin@email.com	1	Edit Delete
6	binam	binam@gmail.com	1	Edit Delete
7	test123	test@mail.com	1	Edit Delete

[Add new user](#)

About Us

Dummy Text

[Click here to learn more](#)

Contact Us & Address

Address: South Circular Road, Dublin 8

Email: binam.shrestha@studnt.griffith.ie

Email: chukwuemekawisdom.arinze@studnt.griffith.ie

Quick Links

[Index](#)

[About](#)

[Gallery](#)

Social Media Links



This is the bread and butter of admin page. The user management, where all the magic happen.

Edit user panel:

Edit user

testing
Username

test@gmail.com
Email address

Password

✓ Free
Beginner
Intermediate
Advanced

About Us Dummy Text Click here to learn more	Contact Us & Address Address South Circular Road, Dublin 8 Email binam.shrestha@studnt.griffith.ie Email chukwuemekawisdom.arinze@studnt.griffith.ie	Quick Links Index About Gallery	Social Media Links Facebook Twitter Instagram
---	--	---	---

Allows the admin to edit email, username, password and tier.

Add user panel:

First Name

Last Name

Username

Email address

Password

✓ Active
Inactive

ADD USER

About Us	Contact Us & Address	Quick Links	Social Media Links
Dummy Text	Address South Circular Road, Dublin 8	Index	Facebook
Click here to learn more	Email binam.shrestha@studnt.griffith.ie	About	Twitter
	Email chukwuemekawisdom.arinze@studnt.griffith.ie	Gallery	Instagram
		Classes	LinkedIn

Allows admin to add new user.

Delete user:

Users management

ID	Username	Email	Tier	Edit Delete
1	testing	test@gmail.com	4	Edit Delete
5	Admin	admin@email.com	1	Edit Delete
6	binam	binam@gmail.com	1	Edit Delete

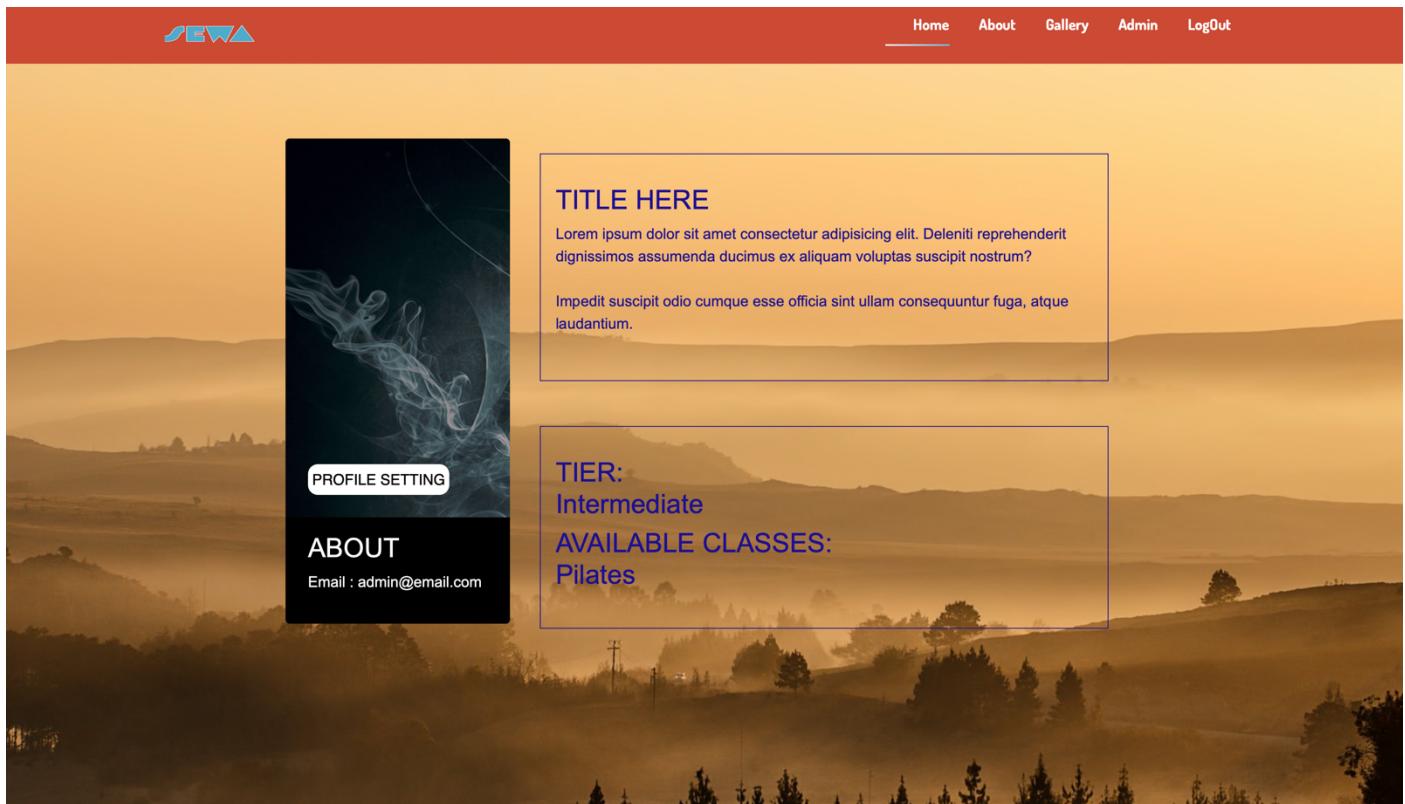
[Add new user](#)

About Us	Contact Us & Address	Quick Links	Social Media Links
Dummy Text	Address South Circular Road, Dublin 8	Index	Facebook
Click here to learn more	Email binam.shrestha@studnt.griffith.ie	About	Twitter
	Email chukwuemekawisdom.arinze@studnt.griffith.ie	Gallery	Instagram
		Classes	LinkedIn

Allows user to delete user from database.

6 Extra features and improvements

One of the extra feature/ page for the project is a profile page, where user can view their details, such as email address, tier and which class they have access to.



7 Design specifications

7.1 Inspired by

Inspiration for this site came from the website flyefit. The design and layout of the flyefit website was simple, dynamic and the information is conveyed to whoever visits the website.

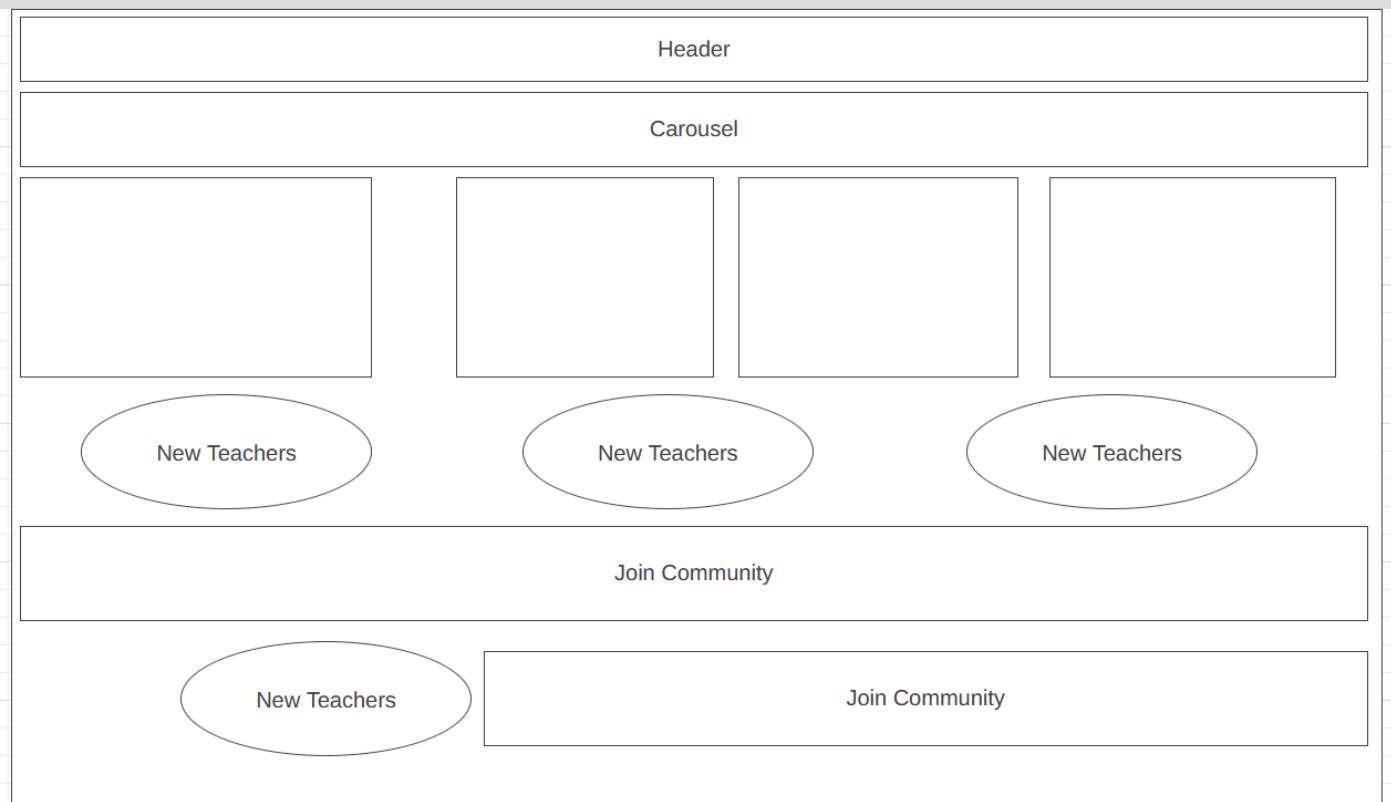
7.2 Sitemap

7.3 Wireframe templates

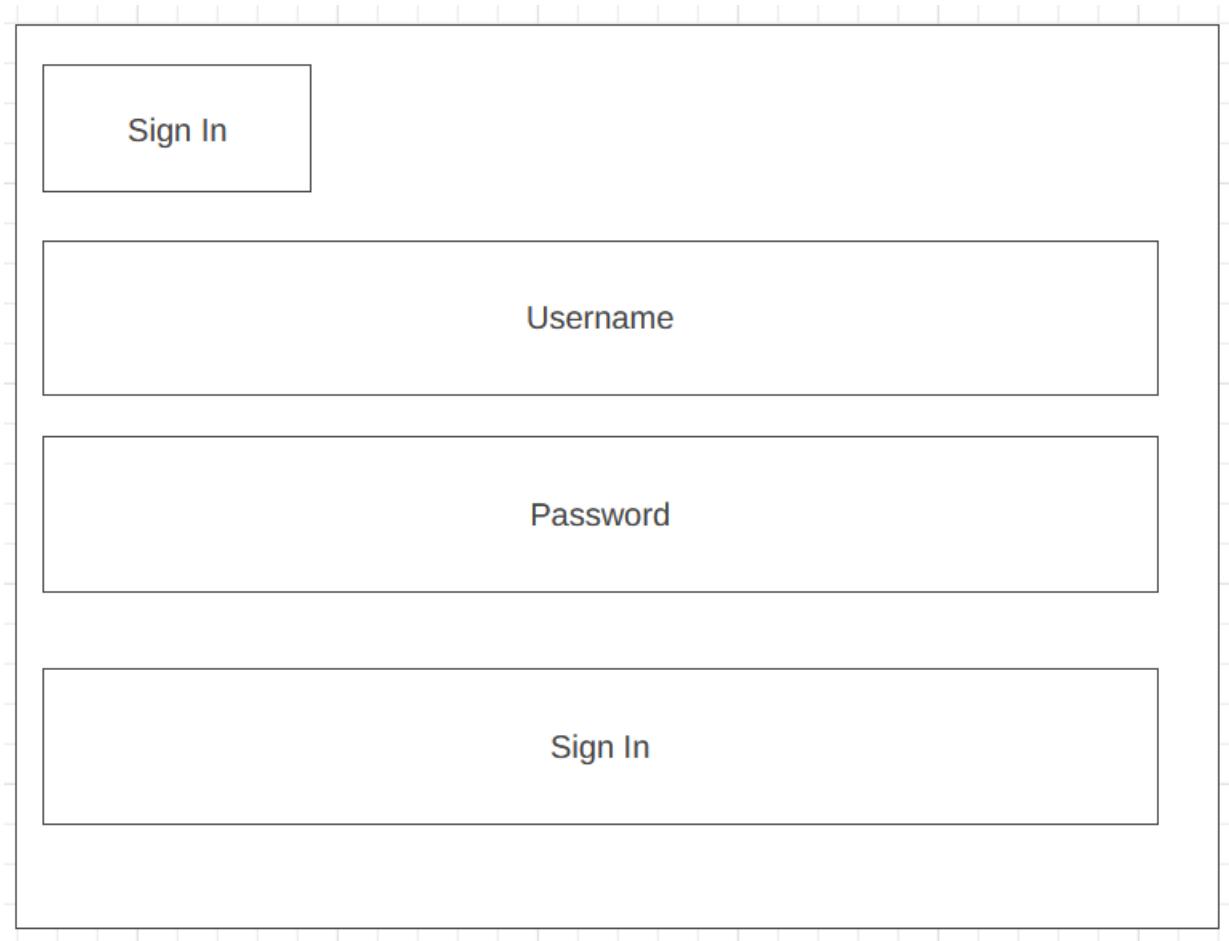
Index Page

15 | Page

Assignment 4: Research, Plan, Design and Build a Single-Page Web Application – 40%



Sign in page.



Sing up page.

Sign Up

FirstName

LastName

Username

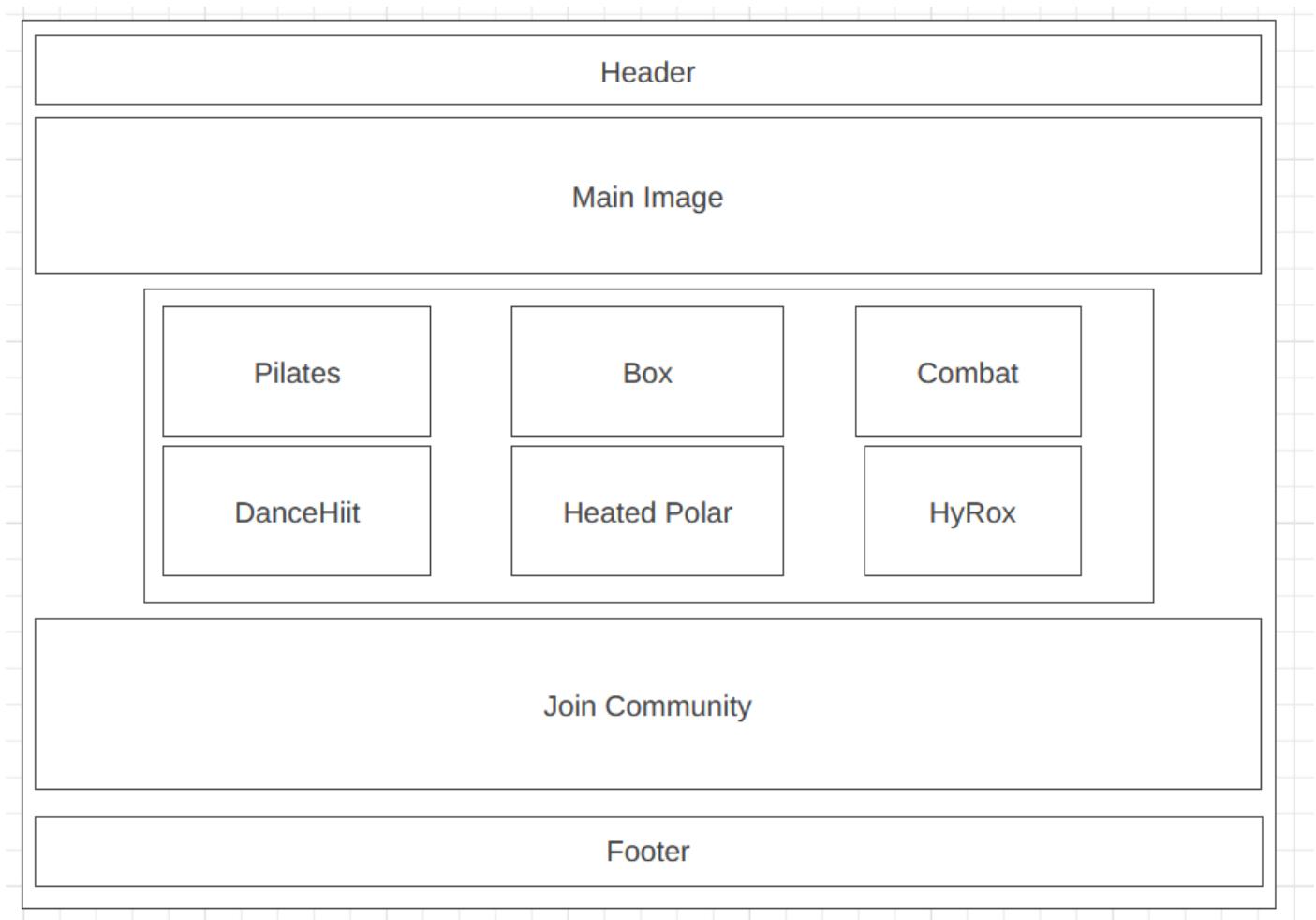
Email

Password

Repeat Password

Sign Up Button

Classes Page



7.4 Colour

We decided to blend multiple colours in our project, however the one that took precedence is #cc4933, it is used in header and footer of our website which is the most seen element as it is visible in all pages. We accented it with a little bit of blue throughout our website as the two colours complement each other in a non-overwhelming way. We have white background on contents pages to bring contrast. The sites we researched had just one colour and they had it on a white background which seem like the common design decisions for most websites.

7.5 Fonts

The font family used for the site was "Poppins", sans-serif. The reason we used these specific font family is because they are aesthetically pleasing and look good on the website.

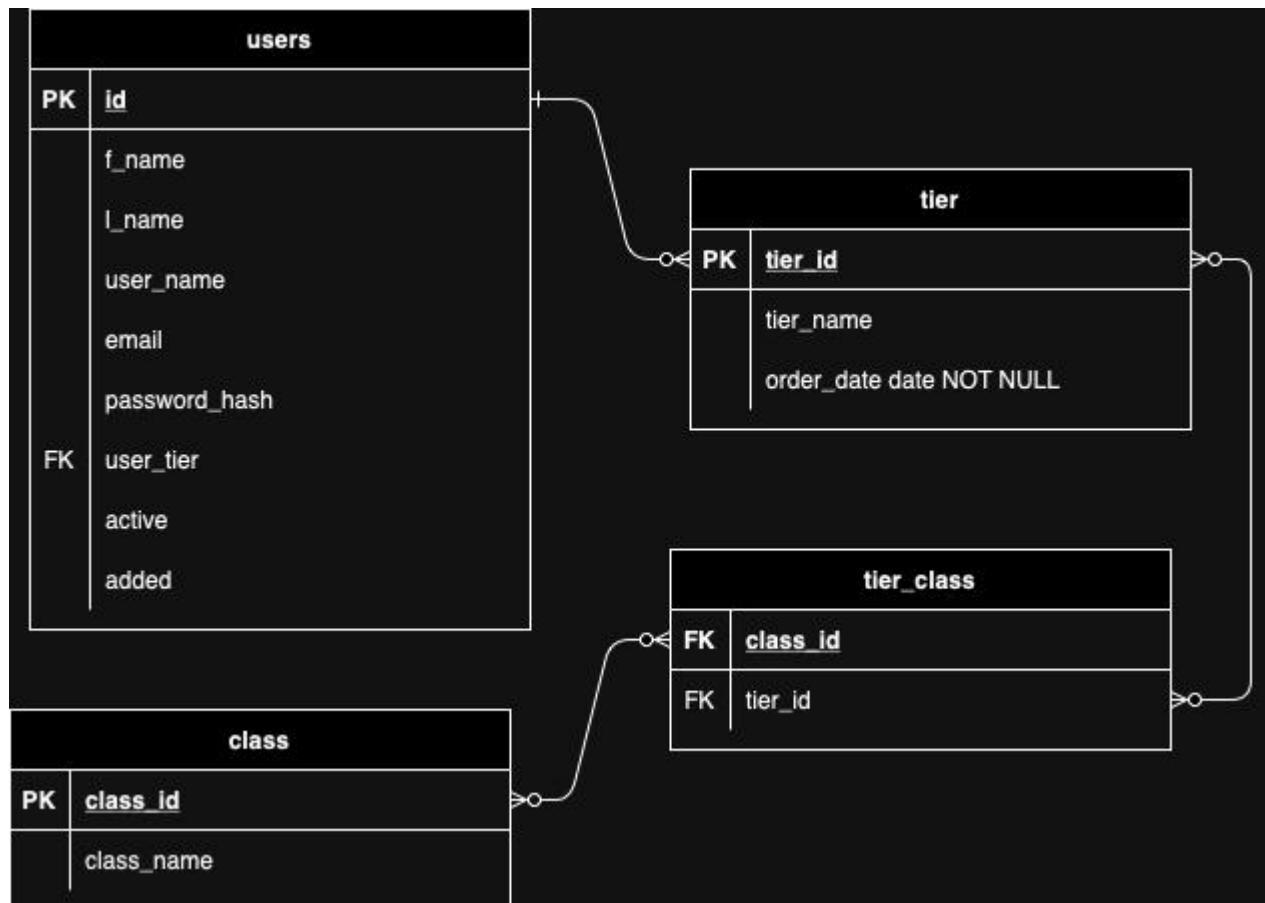
8 Application Structure

```
[→ assignment-3 tree .  
.  
└── admin  
    ├── dashboard.php  
    ├── index.php  
    ├── message_function.php  
    ├── users.php  
    ├── users_add.php  
    └── users_edit.php  
└── app  
    ├── controllers  
    │   └── validate_email.php  
    ├── models  
    └── views  
        ├── aboutUs.php  
        ├── box.php  
        ├── carousel.php  
        ├── classes.php  
        ├── footer.php  
        ├── gallery.php  
        ├── header.php  
        ├── heatedPolar.php  
        ├── logout.php  
        ├── pilates.php  
        ├── profile.php  
        ├── signin_form.php  
        ├── signup.php  
        ├── signup_form.php  
        └── signup_success.php  
└── config  
    └── database.php
```

```
└─ public
    └─ css
        ├ forms.css
        └─ style.css
    └─ images
        └─ advancedImage.jpeg
        └─ aqua man sign.png
        └─ background1.jpeg
        └─ background2.jpeg
        └─ background3.jpeg
        └─ background4.jpeg
        └─ beginnerImage.jpeg
        └─ boxing.jpeg
        └─ boxingMainImage.jpeg
        └─ cardioInstructor.jpeg
        └─ classesImages.jpeg
        └─ combat.jpeg
        └─ combatImage.jpeg
        └─ combatImage.jpg
        └─ communityImage.jpeg
        └─ dance.jpeg
        └─ danceHitImage.jpeg
        └─ developerImage.jpeg
        └─ dietInstructor.jpeg
        └─ gallery1.jpeg
        └─ gallery2.jpeg
        └─ gallery3.jpeg
        └─ gallery4.jpeg
        └─ gallery5.jpeg
        └─ gallery6.jpeg
        └─ gallery7.jpeg
        └─ gallery8.jpeg
        └─ gallery9.jpeg
        └─ galleryImage.jpeg
        └─ heatedPolar.jpeg
        └─ heatedPolarImage.jpeg
        └─ hyrox.jpeg
        └─ hyroxImage.jpeg
        └─ intermediateImage.jpeg
        └─ me.png
        └─ pilates.jpeg
        └─ pilatesImage.jpeg
        └─ profile.jpg
        └─ sewa-logo-img.png
        └─ success1.jpeg
        └─ success2.jpeg
        └─ success3.jpeg
        └─ success4.jpeg
        └─ success5.jpeg
        └─ successImage.jpeg
        └─ sunset-bg.jpg
        └─ weightInstructor.jpeg
        └─ wisdom.jpg
        └─ zumbaClass.jpeg
    └─ index.php
    └─ js
        └─ assignment_2.js
        └─ form_validation.js
    └─ test.php
```

9 Database Structure

ERD of the final database.



10 The project timeline

At the beginning of this project, we started by drawing up how the site will look like. The site will have basic files that any individual can access, the basic pages are index page, contact us page, about us page, gallery page, success page classes page just to mention a few. So, when the index was being built, we used some random images and dummy text so as the design process would become faster. This made us not worry too much on the text and what type of image we need to place in particular positions. So, as I progressed from page to page, I sent them to my branch on git hub. Binam began to work on things like sessions, sign in, sign up, log out etc.

At the later stage of the production process, we began combining all our work until we were done.

11 Instructions

11.1 Username and password for Group GoormIDE account.

For this project, the development phase involved mostly git usage and not goorm ide but, a goorm ide with project container has been setup with the following account.

binam.shrestha@student.griffith.ie

pass: studyMaterial@2024

11.2 Set up instructions

To set up the project in a new machine the following steps can be followed:

- Firstly, setup the machine to handle php serving and mysql db connection.
- After the initial setup is completed, create a document root from where your project will be served.
- Then add the project files in the document root folder. (Git can be used to access the files easily)
- After adding the files, check for apache2 configuration to allow override on root directory, and also enable rewrite mod for php.

```
# Sets the default security model of the Apache2 HTTPD server. It does
# not allow access to the root filesystem outside of /usr/share and /var/www.
# The former is used by web applications packaged in Debian,
# the latter may be used for local directories served by the web server. If
# your system is serving content from a sub-directory in /srv you must allow
# access here, or in any related virtual host.
<Directory />
    Options FollowSymLinks
    AllowOverride All
    Require all denied
</Directory>

<Directory /usr/share>
    AllowOverride None
    Require all granted
</Directory>

<Directory /workspace/>
    Options Indexes FollowSymLinks
    AllowOverride None
    Require all granted
</Directory>

#<Directory /srv/>
#    Options Indexes FollowSymLinks
#    AllowOverride None
#    Require all granted
#</Directory>
```

- While modifying configurations, modify sites enabled configuration as well so that the project is served properly.

```

<VirtualHost *:80>
    # The ServerName directive sets the request scheme, hostname and port that
    # the server uses to identify itself. This is used when creating
    # redirection URLs. In the context of virtual hosts, the ServerName
    # specifies what hostname must appear in the request's Host: header to
    # match this virtual host. For the default virtual host (this file) this
    # value is not decisive as it is used as a last resort host regardless.
    # However, you must set it for any further virtual host explicitly.
    #ServerName www.example.com

    ServerAdmin webmaster@localhost
    DocumentRoot /workspace/SEWA-Assignment-3/

    # Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
    # error, crit, alert, emerg.
    # It is also possible to configure the loglevel for particular
    # modules, e.g.
    #LogLevel info ssl:warn

    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined

    # For most configuration files from conf-available/, which are
    # enabled or disabled at a global level, it is possible to
    # include a line for only one particular virtual host. For example the
    # following line enables the CGI configuration for this host only
    # after it has been globally disabled with "a2disconf".
    #Include conf-available/serve-cgi-bin.conf
</VirtualHost>

```

- Finally setup database, db table and database user to access, store, update data from the database.

12 Reflection on how the project went

The project went relatively smoothly all things considered. Unfortunately, we were not able to start on time because of the other assignments and labs we had to submit. But in general, everything went smoothly. At first, we used WhatsApp as a way of communicating with each other to decide who does what and who takes care of what aspects of the website. We utilized GitHub as the platform to use to share code and collaborate with each other.

13 Appendix

13.1 Features

13.1.1 Part 1

Name	Feature	WORKING
index	Please briefly describe feature... If not working why?	Y/N

registration		Y/N
class		Y/N
class_details		Y/N
testimonial		Y/N
testimonial_add		Y/N
contact_us		Y/N
header		Y/N
logout		Y/N

13.1.2 Part 2

Name	Feature	Working
index_edit	Please briefly describe feature... If not working why?	Y/N
registration_edit		Y/N
services/class_detail_s_edit		Y/N
testimonial_edit		Y/N
contact_us_edit		Y/N

14 Division of Labour

This website was done by the two of us. Binam did 100% of the backend stuff and Wisdom did 100% of the frontend stuff. Binam attempted everything that involves communicating with the server. Everything that pertains to connecting to a database, signing in users, sign up for users including the structure of the database was completed by Binam. Everything that pertains to the user interface of the website, images, colour, fonts was done by Wisdom.

Summary of division of work

Division of work: work was evenly divided between both members of the group.

Percentage of work completed by each partner on each class / task

Some area requires more work than others, so this is only for reference. An average of these values will not be calculated.

Filename / Task	Binam	Wisdom
Database Design	100%	
Database implementation	100%	
GUI design		100%
GUI implementation		100%
Backend Functionality	100%	