COS30043 Project Report

Mark Saleh 103994313

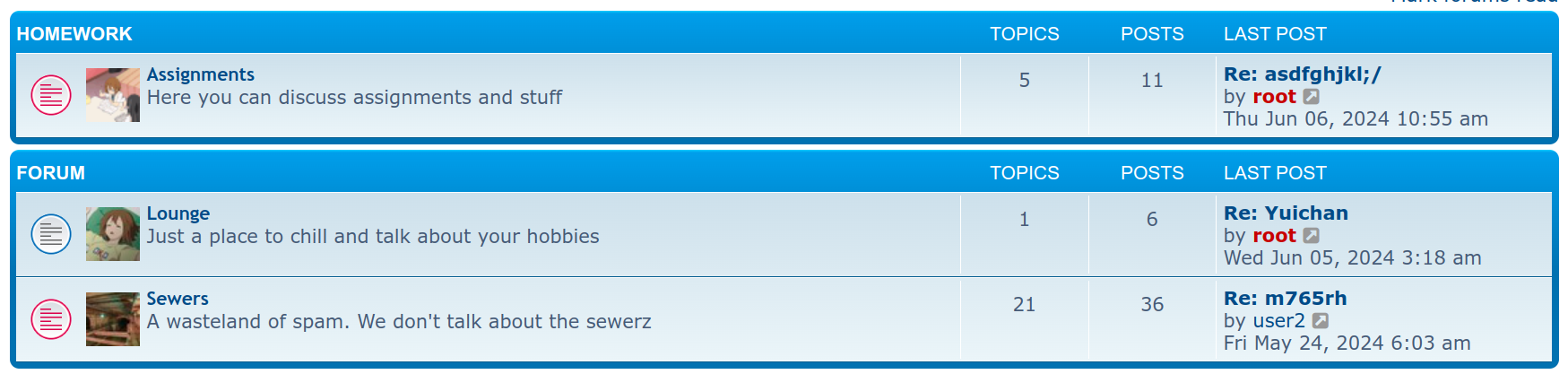
# Overview

My project is a web forum made in phpBB, with added VueJS components. The forum leverages a responsive design, combining AJAX requests with Vue to update data without refreshing the page, and is user-friendly across various devices.

# Features

## Row-column grid system

The default phpBB forum uses a row-column grid system to create an organised and visually appealing UI. Below are some examples of this:

Figures 0 and 1

And here is how it is implemented in the code:

<ul class="topiclist">

<li class="header">

<dl class="row-item">

<dt><div class="list-inner">Topics</div></dt>

<dd class="posts">Replies</dd>

<dd class="views">Views</dd>

<dd class="lastpost"><span>Last post</span></dd>

</dl>

</li>

</ul>

<ul class="topiclist topics">

<li class="row bg1">

<dl class="row-item topic\_read\_mine">

<div class="list-inner">

<a href="./viewtopic.php?t=27" class="topictitle">asdfghjkl;/</a>

</div>

<dd class="posts">1 <dfn>Replies</dfn></dd>

<dd class="views">1 <dfn>Views</dfn></dd>

<dd class="lastpost">

<span><dfn>Last post </dfn>

</span>

</dd>

</dl>

</li>

<li class="row bg2">

<dl class="row-item topic\_read\_mine">

<div class="list-inner">

<a href="./viewtopic.php?t=3" class="topictitle">Project</a>

</div>

<dd class="posts">3 <dfn>Replies</dfn></dd>

<dd class="views">7 <dfn>Views</dfn></dd>

<dd class="lastpost">

<span><dfn>Last post </dfn>

</dd>

</dl>

</li>

## Components, routers and custom directives

VueJS routers and components were integrated into the template. Below is an example of the router:  
<div id="app">

<router-view></router-view>

</div>

<script>

const ForumList = {

template: '<div>Forum List</div>'

};

const TopicList = {

template: '<div>Topic List</div>'

};

const routes = [

{ path: '/', component: ForumList },

{ path: '/topics', component: TopicList }

];

## Arrays for dynamic data handling

Arrays are, by default, used for many purposes by phpBB. One example of this is for searching posts, which uses multiple arrays. Below is an example of one:  
if ($sql\_where)

{

$zebra = [];

if ($show\_results == 'posts')

{

$sql = 'SELECT zebra\_id, friend, foe

FROM ' . ZEBRA\_TABLE . '

WHERE user\_id = ' . $user->data['user\_id'];

$result = $db->sql\_query($sql);

while ($row = $db->sql\_fetchrow($result))

{

$zebra[($row['friend']) ? 'friend' : 'foe'][] = $row['zebra\_id'];

}

$db->sql\_freeresult($result);

## Core VueJS directives

The added VueJS components use core VueJS directives. Below is an example of v-for in the forumlist component:  
<div>

<ul>

<li v-for="forum in forums" :key="forum.id">{{ forum.name }}</li>

</ul>

</div>

## Forms with data validation

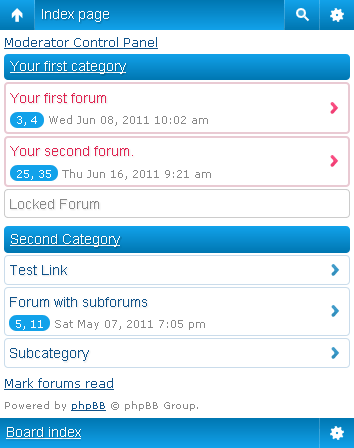
PhpBB’s default login form uses data validation. Below is an example of this:  
$login\_username = $request->variable('login\_username', '', true, \phpbb\request\request\_interface::POST);

$login\_password = $request->untrimmed\_variable('login\_password', '', true, \phpbb\request\request\_interface::POST);

$login\_result = $auth\_provider->login($login\_username, $login\_password);

## Mobile-first approach

PhpBB is, by default, mobile friendly. Below is an example of this:

Figure 3

## Pagination

Figure 4

Pagination is included by default in phpBB. Here is how it is implemented in the code:

<div class="pagination">

21 topics

<ul>

<li class="arrow previous"><a class="button button-icon-only" href="./viewforum.php?f=4" rel="prev" role="button"><i class="icon fa-chevron-left fa-fw" aria-hidden="true"></i><span class="sr-only">Previous</span></a></li>

<li><a class="button" href="./viewforum.php?f=4" role="button">1</a></li>

<li class="active"><span>2</span></li>

<li><a class="button" href="./viewforum.php?f=4&amp;start=20" role="button">3</a></li>

<li class="arrow next"><a class="button button-icon-only" href="./viewforum.php?f=4&amp;start=20" rel="next" role="button"><i class="icon fa-chevron-right fa-fw" aria-hidden="true"></i><span class="sr-only">Next</span></a></li>

</ul>

</div>