

# UofCodeRs

Dhvanil Patel      Abdulrahman Bin Safyan  
200370415            200330884

# Table of Contents

<b>1. Problem Definition</b>	<b>4</b>
<b>2. Economic Feasibility Study</b>	<b>5</b>
<b>3. Software Requirements Specification</b>	<b>7</b>
a. Functional Requirements	
b. Use Case Diagrams	
c. Software Qualities	
<b>4. Design Specification</b>	<b>14</b>
a. Logical Software Architecture	
b. Design Patterns	
c. Class Diagram	
d. UML Tool	
<b>5. Programs</b>	<b>24</b>
a. Component Diagram	
b. Deployment Diagram	

c. List of classes and functions	
d. Database Information	
e. Link to Web-based application	
<b>6. Technical Documentation</b>	<b>29</b>
a. Programming Languages	
b. Reused algorithms and programs	
c. Software tools and environments	
<b>7. Acceptance Testing Document</b>	<b>32</b>
a. Functional testing	
b. Robustness testing	
c. Time-efficiency testing	
<b>8. Contributions of team</b>	<b>41</b>
<b>9. References</b>	<b>43</b>

## **Problem Definition**

Every semester there are hundreds of new students which become a part of the Faculty of Science as Computer Science students. Some are gifted with the ability to grasp onto new methodologies in the software development field; however, many are found to be under stress of being able to find legible help from their professors and peers and have to worry about maintaining proper university standards by following strict codes of plagiarism.

A solution to the issue is our project website UofCodeRs which allows several groups of people such as students and professors to interact with each other to reach a legible solution to a problem. Suppose a student is working on a program for a class such as CS110 or CS115 and has questions regarding some parts of the code which they are not able to understand and would like professor's help or another student's suggestion, the student would provide proper input in terms of what they are trying to do as well as what they have tried so far. A professor or student would then be able to give feedback without giving the whole answer and in case the professor decides to provide a detailed feedback, they can agree to deduct a certain percent of marks from the student's final assignment grade.

The overall motivation in putting this project together was the fact that not at all times are students able to be in contact with their peers and professors. By providing a gateway community to serve such a beneficial purpose, we could empower a student's weakness with support from each other.

## Economic Feasibility Study

For our project, we tend to improve an existing system such as the URCourses forum and also Stack Overflow.

There are several problems within the URCourses forum system which we have provided a solution to promptly in our system. For example:

1. Lack of being able to ask for help from senior students
2. Inability to ask questions about different subjects
3. Unable to receive quick responses

Comparatively, looking at Stack Overflow's forum system, we know the following:

1. Forum not specifically designed for UoR students
2. Certified professors providing answers
3. Questionable validity of the assistance provided

## Objectives of our study

Since we are in search of being able to provide a simplistic solution to the similar systems already available for users, we hope to be able to provide a community which offers:

1. The ability to use a community limited to University of Regina students
2. The ability to provide professors a legible option in order to assist the students of the University of Regina
3. The ability to provide other students to help and get help from other students of the University of Regina

# **Software Requirement Specification**

## a. Functional Requirements List

The functional requirements in a system are the features which are available in terms of a use case.

The functional requirements for our use cases are as below:

### 1. Student

- Login
- Signup
- Use the chat feature
- View chat
- Join a chat room
- Receive and send messages on chat
- Use the profile
- Set profile picture
- View Community Stats
- Access the Community

- Post a new topic
- Post a response on a topic

## 2. Professor

- Login
- Signup
- Use the chat feature
- View chat
- Join a chat room
- Receive and send messages on chat
- Use the profile
- Set profile picture
- View Community Stats
- Access the Community
- Post a response on a topic

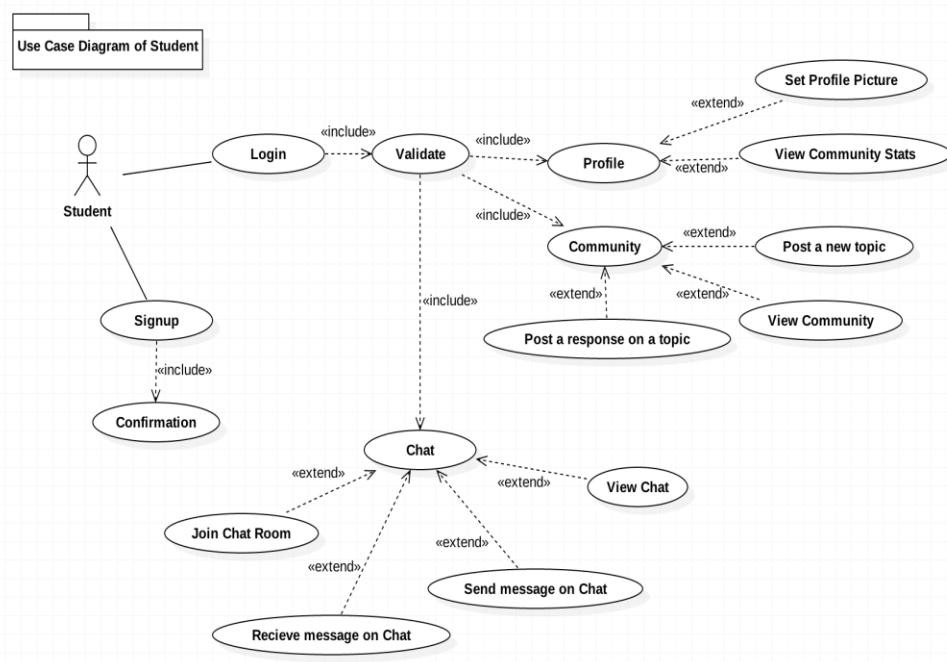
## 3. Visitor

- Login

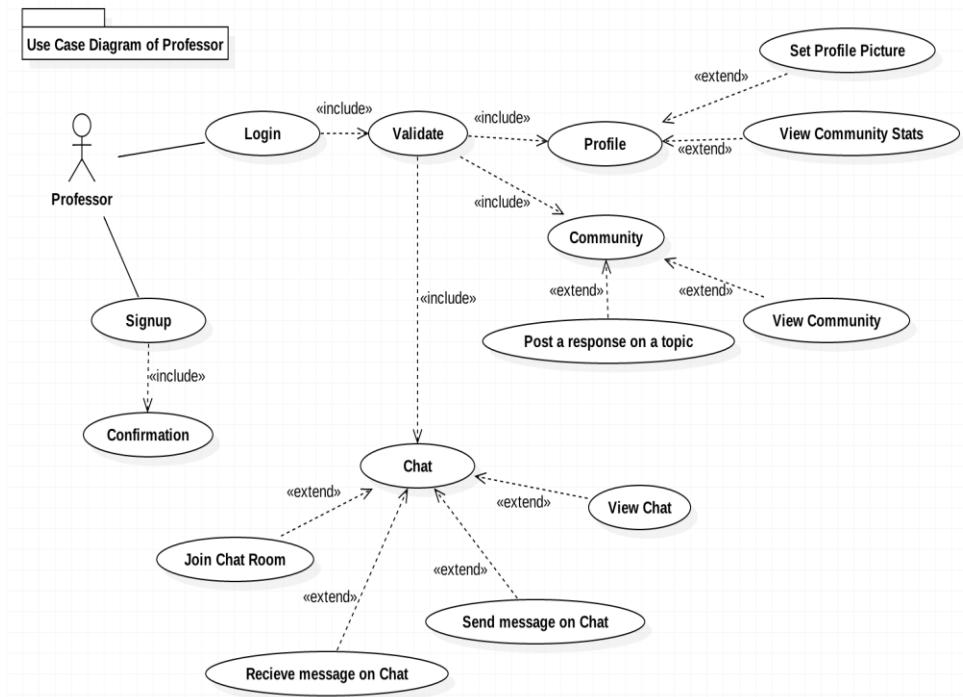
- Signup
- Use the chat feature
- View chat
- Join a chat room
- Receive and send messages on chat
- Use the contact us
- Send email to Admin team

b. Use case diagrams

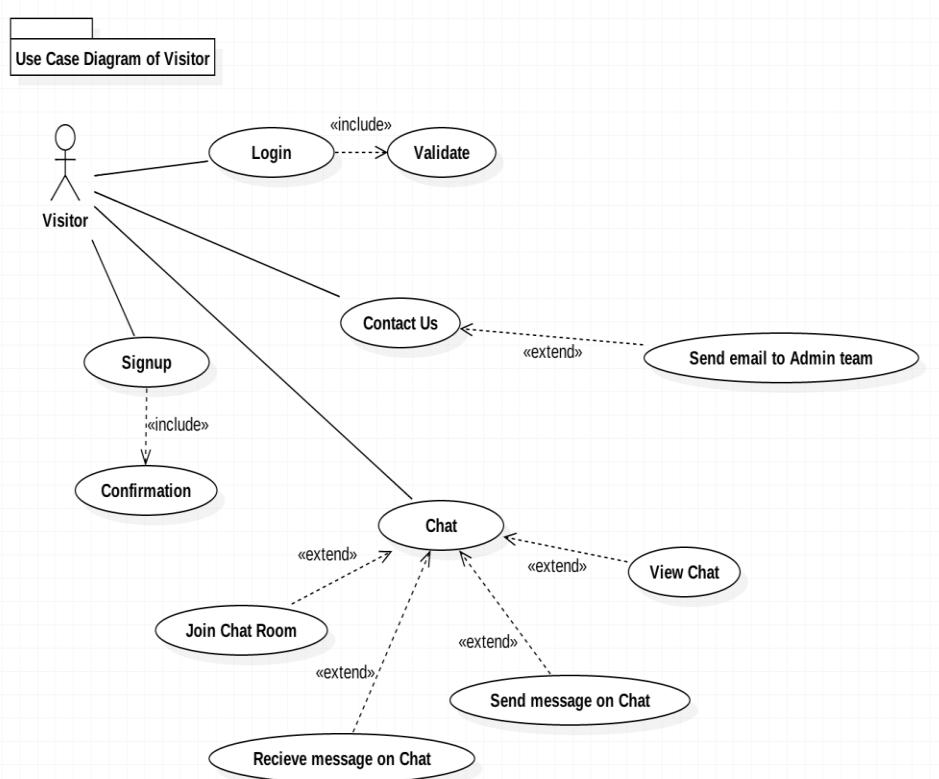
1. Student



## 2. Professor



### 3. Visitor



#### c. Software qualities

##### 1. Correctness

- Every time a user inputs anything, the correct output should be displayed to support correctness of the system

- If a user is to click on a link, they should be correctly directed to the appropriate page.
- When a user visits the community (forum) page, the appropriate posts should be displayed according to the user's authority permissions.

## 2. Time-efficiency

- The appropriate time counters should be applied to any post made on the forum as well as allowing the user to be able to see the appropriate system time.
- In the database, the post, user registration, and comments time counters should be efficiently set in order to provide excellent time-efficiency to the users.

## 3. Robustness

- If users enter any un-ethical information in the public chat, the system should automatically prevent the message from displaying and/or being sent.

- If a user inputs any incorrect information while logging into the system, it should return an appropriate error so the user can fix their mistake.
- If a new user inputs any incorrect information while signing up for the system, it should return an appropriate error so the new user can fix the mistake such as an incorrect form of email or unsupported characters while creating the account's password.

#### 4. User Friendliness

- The overall system must be user-friendly in terms of the visual perspective of the application as well as ease of access.
- The system must be available to modify with certain limitations in order to allow the user slight bit of freedom such as allowing them to set a picture as their profile picture.

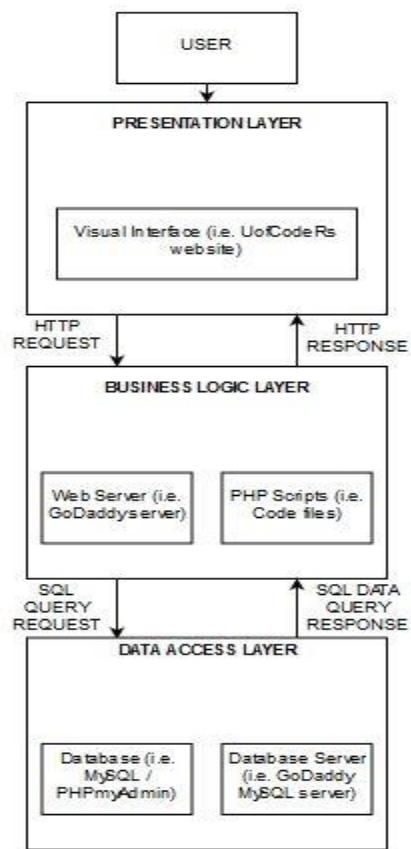
## **Design Specification**

### a. Logical software architecture

The software architecture that we used for our system is known as the 3-Tier Software Architecture. The main purpose of this architecture is to separate the system into various parts such as the three layers:

- Presentation Layer
  - Supports the visual interface which is the UofCodeRs website
  - Accesses the Business Logic layer through HTTP request and response queries
- Business Logic layer
  - Supports the Web Server which is the GoDaddy server and also the PHP scripts which are the code files such as index.php

- Accesses the Data Access layer through SQL query request and response
- Data Access Layer
  - Supports the Database which is the MySQL/PHPMyAdmin portal along with the Database Server
  - Accessed by the Business Logic layer via various SQL queries

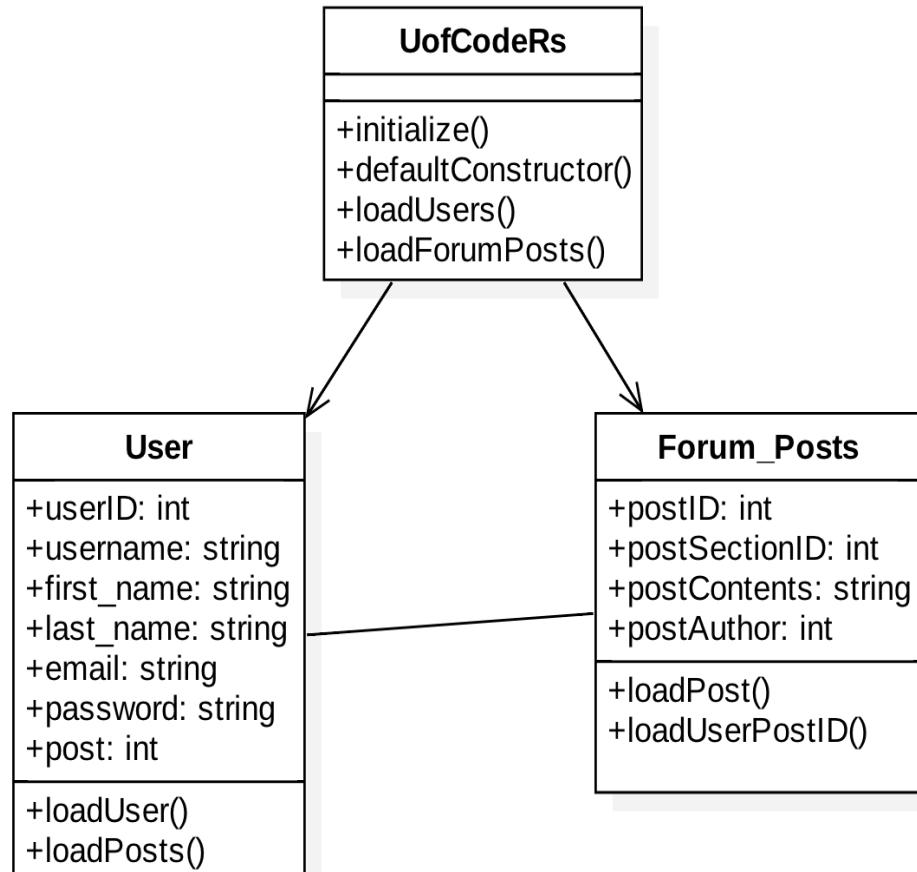


## b. Design Patterns

### 1. Factory – creational design pattern

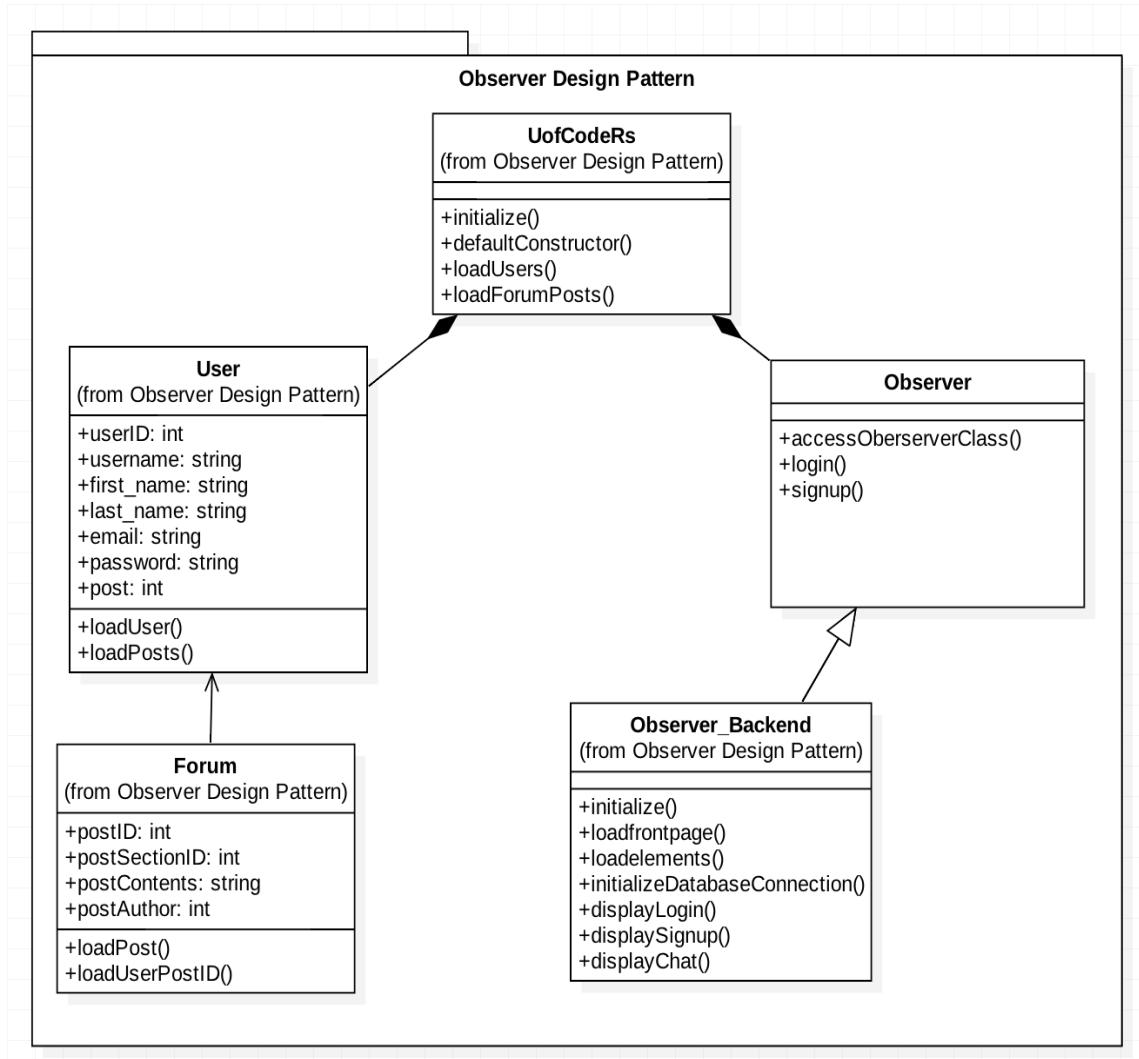
- We used this design pattern in order to allow various classes to be created by the initial class as necessary. The factory design pattern usually defines the interface of creating the object with the additional help of letting various subclasses choose which would be their parent class. The class uses virtual constructors in order to initialize the classes and then implement accordingly. Since factory pattern supports low coupling, it was an idle solution to our design specifications in addition to observer design pattern.

## Factory Design Pattern

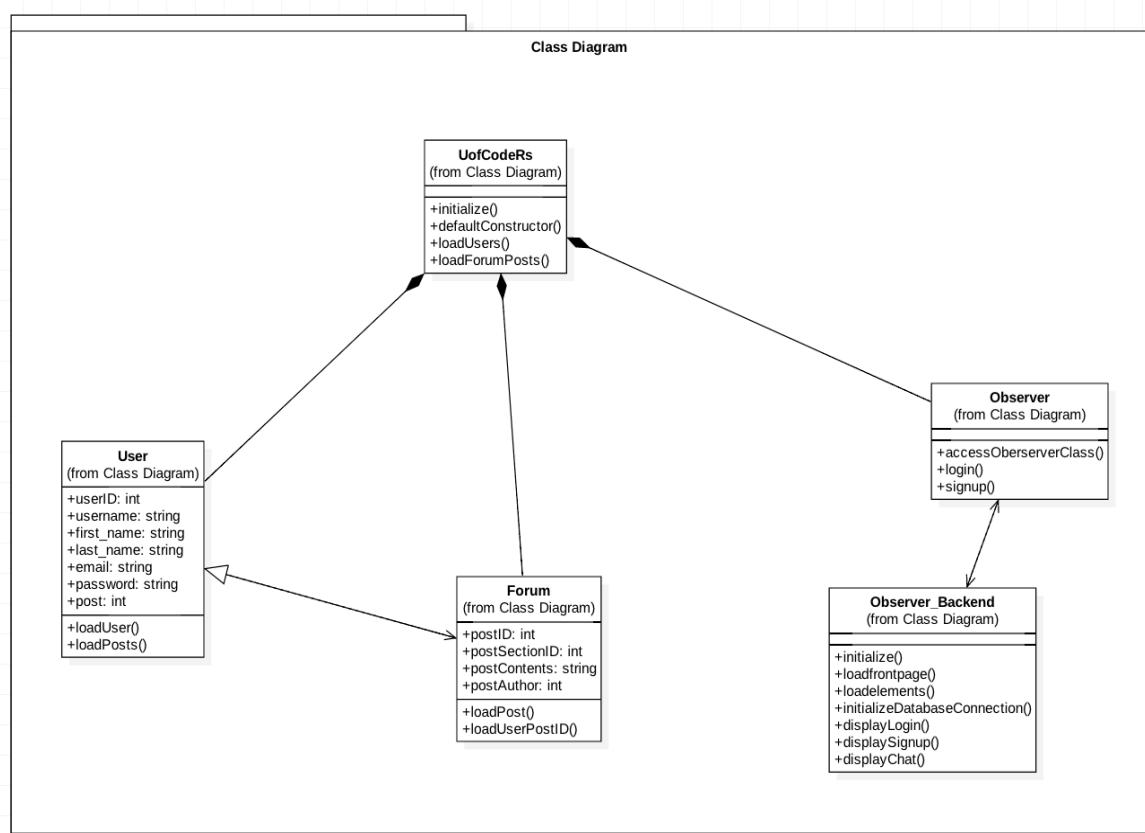


## 2. Observer – behavioral design pattern

- The observer behavioral design pattern was used in order to define the relationships among the classes using the one-to-many dependency method. Each object can initially start as a single dependency and eventually as the system is built, the dependencies change accordingly and allow for the appropriate design pattern to be displayed.  
Since observer pattern also supports low coupling if modified appropriately, it was an idle solution to our design specifications in addition to factory design pattern.



### c. Class Diagram



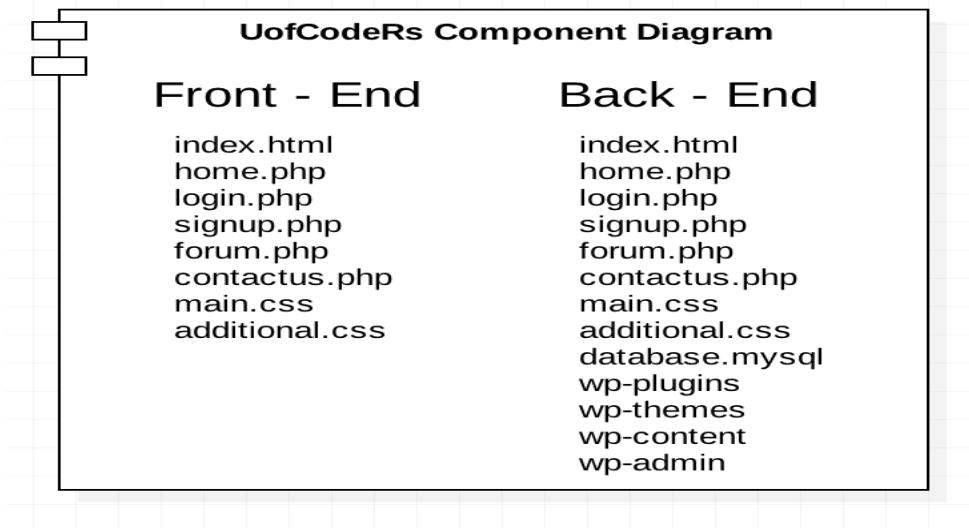
d. UML tool

- The UML tool we used in order to complete our diagrams is the StarUML tool. The StarUML tool helps in creating various types of diagrams such as the design pattern class diagrams, component diagrams, and deployment diagrams as well as use case diagrams.
- Pros
  - Supports creation of various software development diagrams
  - Allows support of many languages including C/C++ and Java
  - Allows quick loading in between diagrams via the use of classes
  - Allows exporting to various different formats.
- Cons
  - Does not support web development languages such as PHP, JS

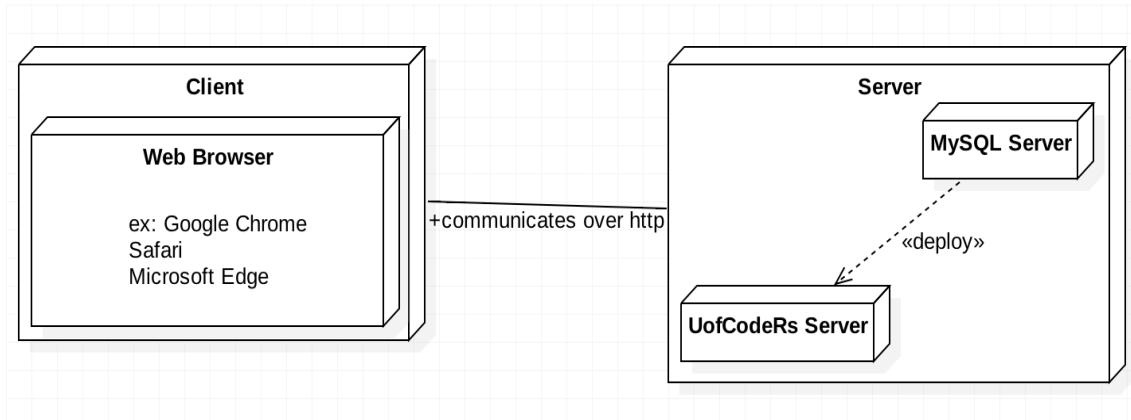
- Does not allow diagrams to be created using the copy feature in order to create multiple diagrams quickly
- Does not allow creation of various components one inside the other

# Programs

## a. Component Diagram



## b. Deployment Diagram



c. List of classes and functions that were implemented

- Classes

- i. User

- ii. Forum

- iii. Visitor

- iv. Signup

- v. Login

- vi. Contactus

- Functions

- i. Login()

- ii. Signup()

- iii. createPost()

- iv. postComment()

- v. sendEmail()

## d. Screenshots of all tables of the system data

The screenshot shows the phpMyAdmin interface for the wp\_comments table in the i4479833\_wp1 database. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	comment_ID	bigrint(20)		UNSIGNED	No	None	AUTO_INCREMENT	<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
2	comment_post_ID	bigrint(20)		UNSIGNED	No	0		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
3	comment_author	tinytext	utf8mb4_unicode_ci		No	None		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
4	comment_author_email	varchar(100)	utf8mb4_unicode_ci		No			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
5	comment_author_url	varchar(200)	utf8mb4_unicode_ci		No			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
6	comment_author_IP	varchar(100)	utf8mb4_unicode_ci		No			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
7	comment_date	datetime			No	0000-00-00 00:00:00		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
8	comment_date_gmt	datetime			No	0000-00-00 00:00:00		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
9	comment_content	text	utf8mb4_unicode_ci		No	None		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
10	comment_karma	int(11)			No	0		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
11	comment_approved	varchar(20)	utf8mb4_unicode_ci		No	1		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
12	comment_agent	varchar(255)	utf8mb4_unicode_ci		No			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
13	comment_type	varchar(20)	utf8mb4_unicode_ci		No			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
14	comment_parent	bigrint(20)		UNSIGNED	No	0		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
15	user_id	bigrint(20)		UNSIGNED	No	0		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>

Below the table structure, there is an 'Information' panel with tabs for 'Space usage' and 'Row statistics'. The 'Space usage' tab shows 1.8 Kib and the 'Format' tab shows dynamic.

The screenshot shows the phpMyAdmin interface for the wp\_posts table in the i4479833\_wp1 database. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	ID	bigrint(20)		UNSIGNED	No	None	AUTO_INCREMENT	<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
2	post_author	bigrint(20)		UNSIGNED	No	0		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
3	post_date	datetime			No	0000-00-00 00:00:00		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
4	post_date_gmt	datetime			No	0000-00-00 00:00:00		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
5	post_content	longtext	utf8mb4_unicode_ci		No	None		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
6	post_title	text	utf8mb4_unicode_ci		No	None		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
7	post_excerpt	text	utf8mb4_unicode_ci		No	None		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
8	post_status	varchar(20)	utf8mb4_unicode_ci		No	publish		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
9	comment_status	varchar(20)	utf8mb4_unicode_ci		No	open		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
10	ping_status	varchar(20)	utf8mb4_unicode_ci		No	open		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
11	post_password	varchar(255)	utf8mb4_unicode_ci		No			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
12	post_name	varchar(200)	utf8mb4_unicode_ci		No			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
13	to_ping	text	utf8mb4_unicode_ci		No	None		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
14	pinged	text	utf8mb4_unicode_ci		No	None		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
15	post_modified	datetime			No	0000-00-00 00:00:00		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
16	post_modified_gmt	datetime			No	0000-00-00 00:00:00		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
17	post_content_filtered	longtext	utf8mb4_unicode_ci		No	None		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
18	post_parent	bigrint(20)		UNSIGNED	No	0		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
19	guid	varchar(255)	utf8mb4_unicode_ci		No			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
20	menu_order	int(11)			No	0		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
21	post_type	varchar(20)	utf8mb4_unicode_ci		No	post		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
22	post_mime_type	varchar(100)	utf8mb4_unicode_ci		No			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>
23	comment_count	bigrint(20)			No	0		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">More</a>

Below the table structure, there is an 'Information' panel with tabs for 'Space usage' and 'Row statistics'. The 'Space usage' tab shows 1.8 Kib and the 'Format' tab shows dynamic.

Chrome File Edit View History Bookmarks People Window Help

cPanel - Main a2plcpnl0504.prod.iad2.secureserver.net 79% Wed 10:03 PM Dhvanil

Secure | https://a2plcpnl0504.prod.iad2.secureserver.net:2083/cpsess4876582705/3rdparty/phpMyAdmin/index.php#PMAURL-27:tbl\_structure.php?... ☆ | 🔍

**phpMyAdmin**

(Recent tables) ...

Server: localhost:3306 > Database: i4479833\_wp1 > Table: wp\_signups

Browse Structure SQL Search Insert Export Import Operations Triggers

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	signup_id	bigint(20)	utf8mb4_unicode_520_ci		No	None	AUTO_INCREMENT	Change  Drop  Primary  More
2	domain	varchar(200)	utf8mb4_unicode_520_ci		No			Change  Drop  Primary  More
3	path	varchar(100)	utf8mb4_unicode_520_ci		No			Change  Drop  Primary  More
4	title	longtext	utf8mb4_unicode_520_ci		No	None		Change  Drop  Primary  More
5	user_login	varchar(60)	utf8mb4_unicode_520_ci		No			Change  Drop  Primary  More
6	user_email	varchar(100)	utf8mb4_unicode_520_ci		No			Change  Drop  Primary  More
7	registered	datetime			No	0000-00-00 00:00:00		Change  Drop  Primary  More
8	activated	datetime			No	0000-00-00 00:00:00		Change  Drop  Primary  More
9	active	tinyint(1)			No	0		Change  Drop  Primary  More
10	activation_key	varchar(50)	utf8mb4_unicode_520_ci		No			Change  Drop  Primary  More
11	meta	longtext	utf8mb4_unicode_520_ci	Yes	NULL			Change  Drop  Primary  More

Check All With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

Print view Propose table structure Move columns

Add 1 column(s) At End of Table At Beginning of Table After signup\_id Go

+ Indexes

Information

Space usage		Row statistics	
Data	0 B	Format	dynamic
Index	4 Kib	Collation	utf8mb4_unicode_520_ci
Total	4 Kib	Rows	0
		Next autoindex	1
		Creation	Mar 14, 2018 at 01:25 PM
		Last update	Mar 14, 2018 at 01:25 PM

The screenshot shows the phpMyAdmin interface for a MySQL database. The left sidebar lists various tables, including wp\_users, wp\_posts, wp\_options, and wp\_comments. The main area displays the structure of the wp\_users table. The table has 12 columns:

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	<b>ID</b>	bigint(20)	UNSIGNED	No	None		AUTO_INCREMENT	Change  Drop  Primary  More
2	<b>user_login</b>	varchar(60)	utf8mb4_unicode_ci	No				Change  Drop  Primary  More
3	<b>user_pass</b>	varchar(255)	utf8mb4_unicode_ci	No				Change  Drop  Primary  More
4	<b>user_nicename</b>	varchar(50)	utf8mb4_unicode_ci	No				Change  Drop  Primary  More
5	<b>user_email</b>	varchar(100)	utf8mb4_unicode_ci	No				Change  Drop  Primary  More
6	<b>user_url</b>	varchar(100)	utf8mb4_unicode_ci	No				Change  Drop  Primary  More
7	<b>user_registered</b>	datetime		No	0000-00-00 00:00:00			Change  Drop  Primary  More
8	<b>user_activation_key</b>	varchar(255)	utf8mb4_unicode_ci	No				Change  Drop  Primary  More
9	<b>user_status</b>	int(11)		No	0			Change  Drop  Primary  More
10	<b>display_name</b>	varchar(250)	utf8mb4_unicode_ci	No				Change  Drop  Primary  More
11	<b>spam</b>	tinyint(2)		No	0			Change  Drop  Primary  More
12	<b>deleted</b>	tinyint(2)		No	0			Change  Drop  Primary  More

Below the table structure, there are sections for 'Information' (Space usage, Row statistics), 'Add column(s)', and 'Indexes'.

## e. Link of our web-based application:

- [www.asafyan.io](http://www.asafyan.io)

# Technical Documentation

a. Programming languages

- PHP
- JavaScript
- HTML5
- CSS
- SQL

b. Reused algorithms and programs. List their exact sources.

- URCourses
  - i. [www.urcourses.uregina.ca](http://www.urcourses.uregina.ca)
- Stack Overflow
  - i. [www.stackoverflow.com](http://www.stackoverflow.com)

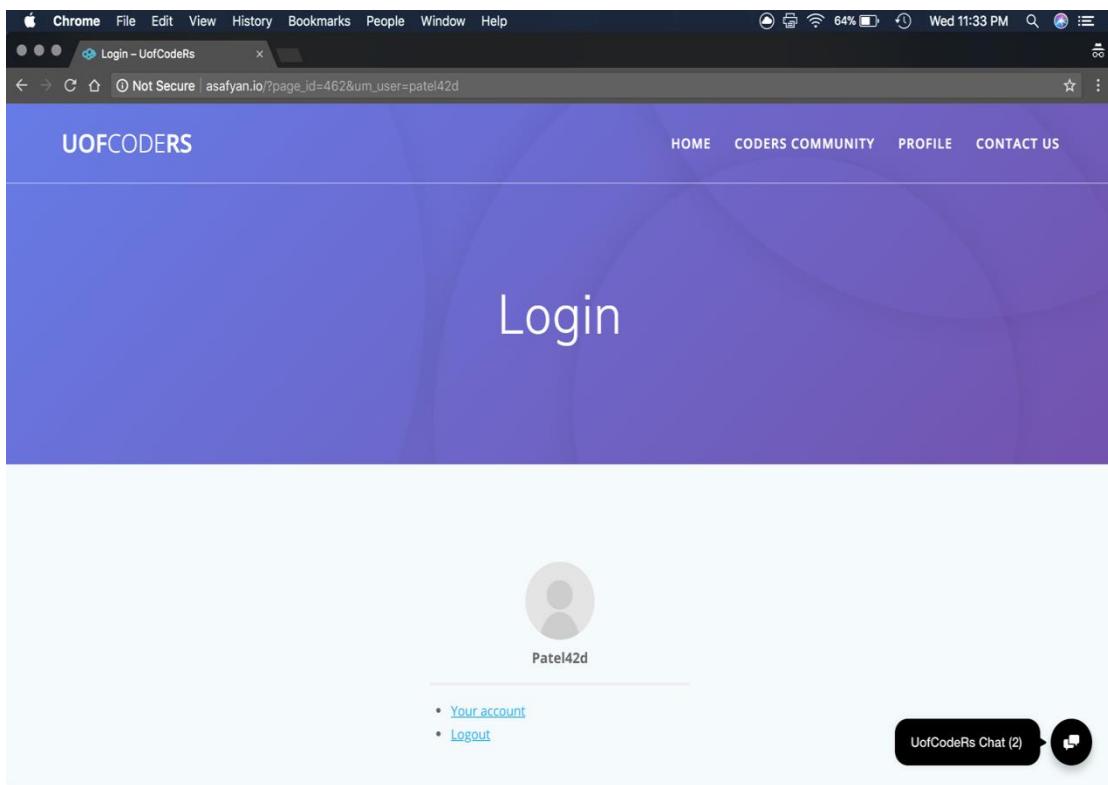
c. Software tools and environments.

- WordPress
  - i. Used in order to put the web application together
- Mesmerize Theme
  - i. Used in order to display a user-friendly theme homepage
- bbPress
  - i. Used in order to create a forum-like community for the web application
- iFlyChat
  - i. Used in order to implement chat feature for the web application
- StarUML
  - i. Used for creating the various diagrams
- Brackets
  - i. Used for creating and editing the web application using HTML5, CSS, and JavaScript

- Sublime Text 3
  - i. Used for creating and editing the web application using HTML5, CSS, and JavaScript
- GoDaddy Server
  - i. Used for hosting the web application
- MySQL Server
  - i. Used for hosting the database application
- PHPMyAdmin
  - i. Used for managing the database for the web application
- cPortal
  - i. Used for managing the files of the web application
- Draw.io
  - i. Used for creating the 3-tier software architecture diagram

# Acceptance Testing Document

## a. Functional testing



This screenshot shows the homepage of the UOFCODERS website. The header features the "UOFCODERS" logo and navigation links for HOME, CODERS COMMUNITY, PROFILE, and CONTACT US. Below the header, a large banner displays the text "Computer Science". The main content area shows a forum list with two categories: "CS110" and "CS115". Each category has 2 topics and 5 posts, with the last update being 8 hours and 21 minutes ago for CS110 and 1 day, 3 hours ago for CS115. A "UofCodeRs Chat (2)" button is visible on the right.

FrontPage > Forums > Computer Science [Subscribe](#) [Sort topics by votes](#)

This forum contains 6 topics and 4 reply, and was last updated by patel42d 8 hours, 21 minutes ago.

Forum	Topics	Posts	Freshness
CS110	2	5	8 hours, 21 minutes ago
CS115	2	2	1 day, 3 hours ago

This screenshot shows the "CS110" forum page. The header includes the "UOFCODERS" logo and navigation links. A "CREATE NEW TOPIC IN 'CS110'" button is visible. The main content area contains a "Topic Title (Maximum Length: 80):" input field with the value "New Topic Testing". Below the title is a rich text editor toolbar with various HTML tags: b, i, link, b-quote, del, img, ul, ol, li, code, and close tags. A code editor window shows some C++ code: `<a href="http://urcourses.uregina.ca" rel="noopener" target="\_blank">URCOURSES LINK</a>` and `cout << "This is an example code" << endl;`. A "UofCodeRs Chat (2)" button is located at the bottom right.

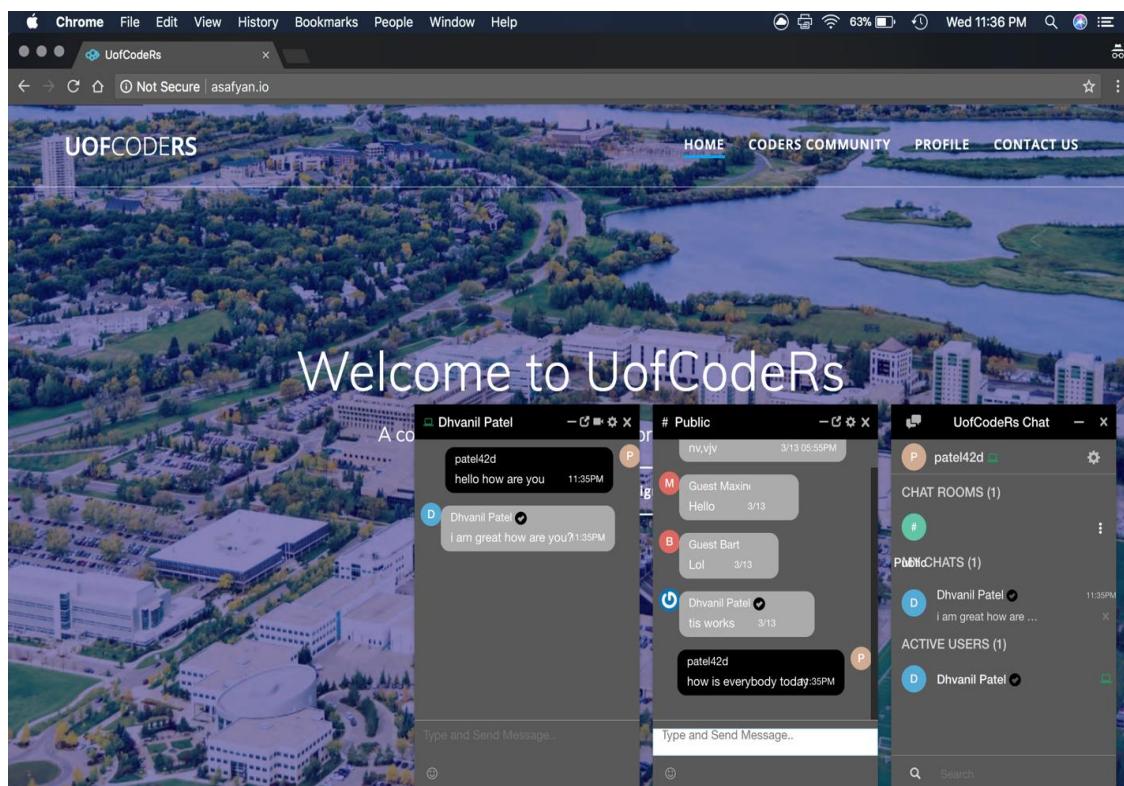
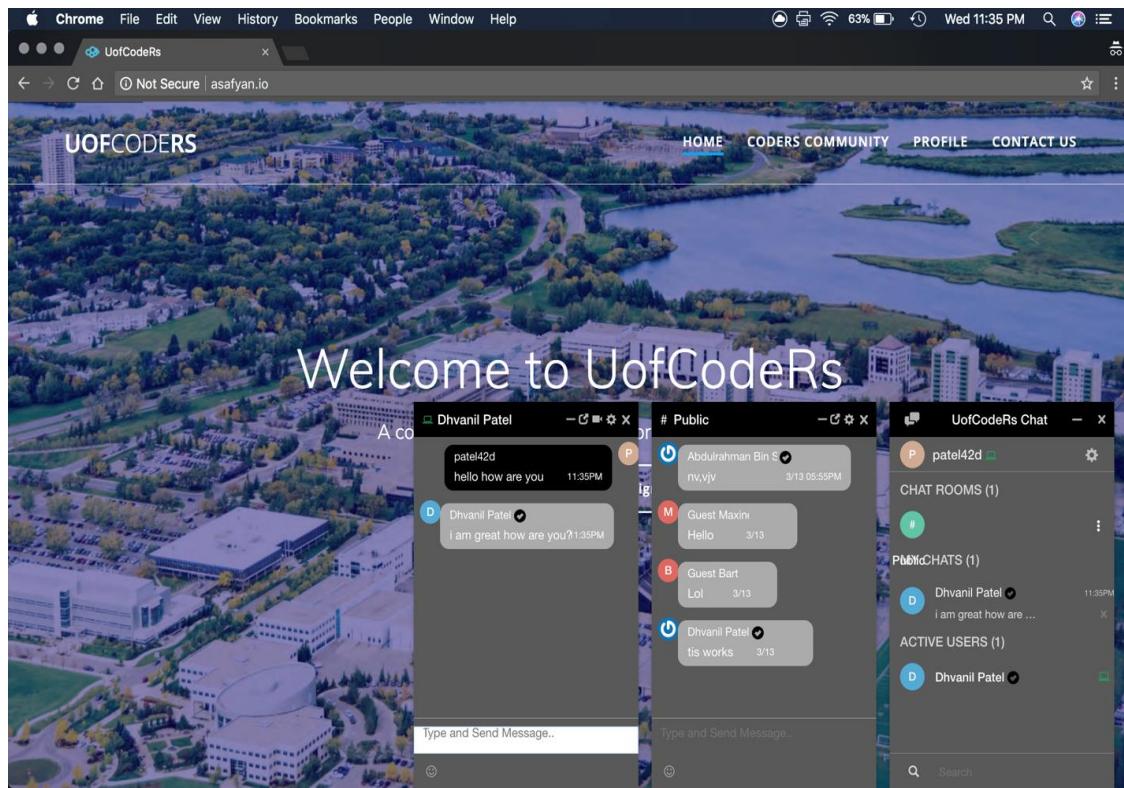
CREATE NEW TOPIC IN "CS110"

Topic Title (Maximum Length: 80):

New Topic Testing

b  
i  
link  
b-quote  
del  
img  
ul  
ol  
li  
code  
close tags

```
<a href="http://urcourses.uregina.ca" rel="noopener" target="_blank">URCOURSES LINK</a>
cout << "This is an example code" << endl;
```



## b. Robustness

The screenshot shows a Chrome browser window with the title bar indicating it's a 'Signup - UoFCODERS' page from 'asafyan.io?page\_id=470'. The page itself is titled 'UOFCODERS' and features a navigation bar with links for 'HOME', 'CODERS COMMUNITY', 'PROFILE', and 'CONTACT US'. The main content area contains a sign-up form. It includes fields for 'Email' (containing 'thiswork@myownemail.com'), 'Password' (containing 'password'), and 'Confirm Password' (also containing 'password'). Below the password fields, a red error message box displays the text 'Your Password must contain at least 8 characters'. Further down the form, there is a link 'Show Terms' and a checkbox labeled 'Please confirm that you agree to the UoCodeRs community terms & conditions'. A reCAPTCHA verification section follows, featuring a checkbox 'I'm not a robot', the reCAPTCHA logo, and links for 'Privacy' and 'Terms'. At the bottom of the form are two buttons: a blue 'Register' button and a grey 'Login' button. In the bottom right corner of the page, there is a small 'UoFCODERS Chat' window.

The screenshot shows a web browser window with the title "Login - UofCodeRs". The URL is "asafyan.io?page\_id=462". The main content area displays a login form with the following fields:

- E-mail Address: "patel42d@uregina.ca"
- Password: "password"

A red error message box at the top states: "ERROR: The password you entered for the username patel42d is incorrect. [Lost your password?](#)" Below the password field is another red message box: "Password is incorrect. Please try again."

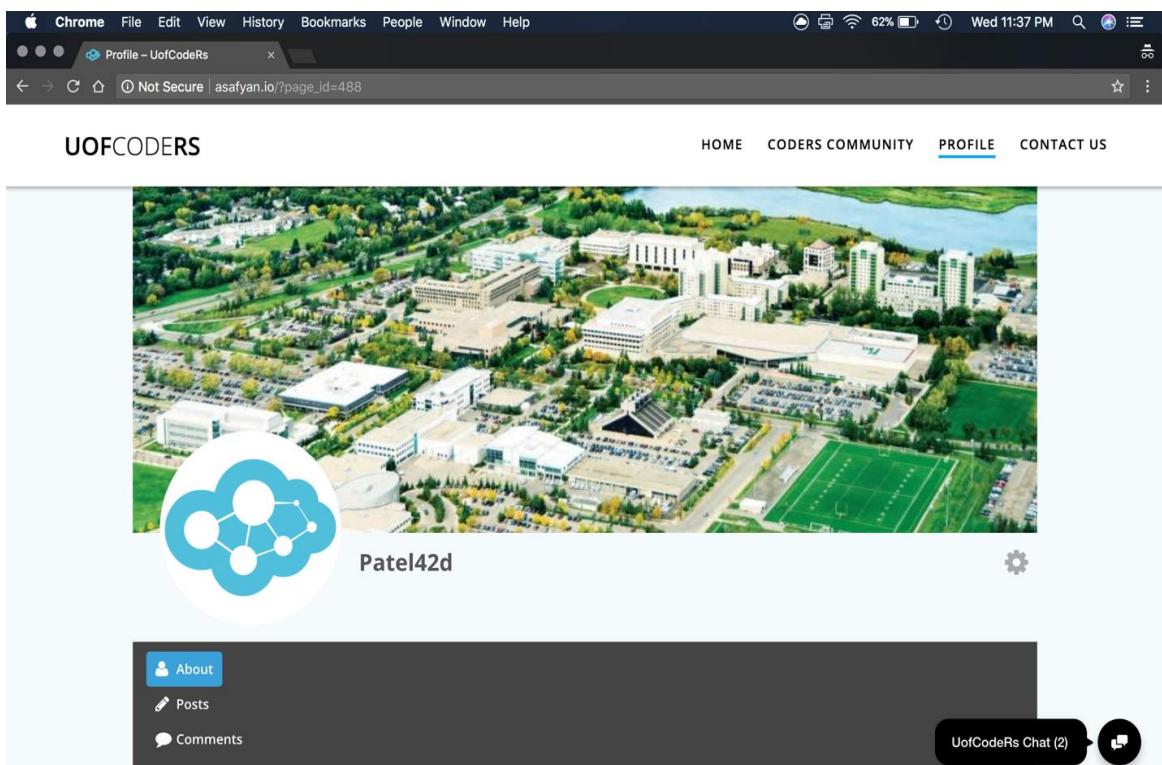
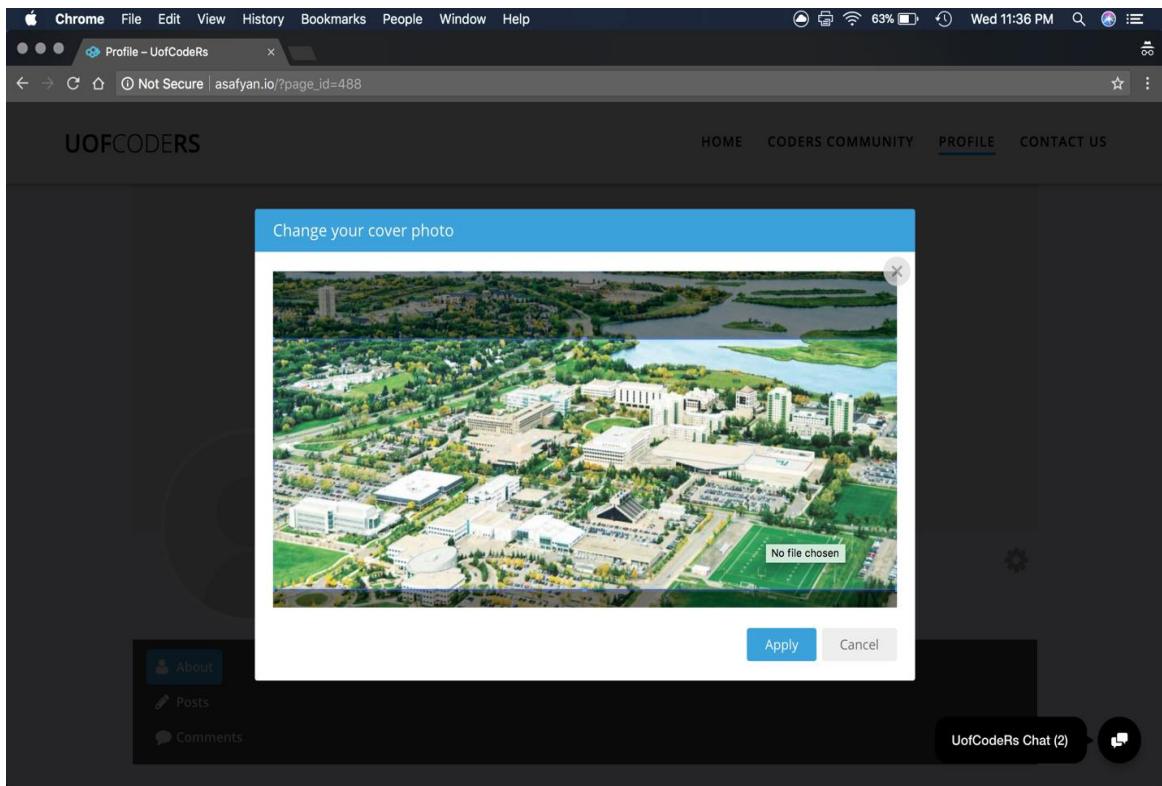
Below the form are two buttons: "Login" (blue) and "Register" (grey). To the right of the form is a dark sidebar titled "UofCodeRs Chat" which lists "CHAT ROOMS (1)" and "ACTIVE USERS (2)".

The screenshot shows a web browser window with the title "UofCodeRs". The URL is "asafyan.io". The main content area displays a "Delete My Chat Item" dialog box with the following text:

Are you sure you want to delete this My Chat Item  
permanently?

Cancel Yes, I understand

Below the dialog is a dark sidebar titled "UofCodeRs Chat" which lists "CHAT ROOMS (1)" and "ACTIVE USERS (1)".



### c. Time-efficiency

The screenshot shows a web browser window with the following details:

- Header:** Chrome browser interface, tab titled "CS110 - UofCodeRs", address bar showing "Not Secure | asafyan.io?forum=computer-science/cs110".
- Page Title:** UOFCODERS
- Page Content:**
  - Topic Title (Maximum Length: 80): New Topic Testing
  - Text area containing code:

```
<a href="http://urcourses uregina.ca" rel="noopener" target="_blank">URCOURSES LINK</a>
`cout << "This is an example code" << endl;`
```
  - Toolbar with various rich text and code-related icons: b, i, link, b-quote, del, img, ul, ol, li, code, close tags.
  - Bottom right corner features a button labeled "UofCodeRs Chat (2)" with a message icon.

Chrome File Edit View History Bookmarks People Window Help 63% Wed 11:34 PM

New Topic Testing - UofCodeRs x

Not Secure | asafyan.io?topic=new-topic-testing

## UOFCODERS

HOME CODERS COMMUNITY PROFILE CONTACT US

FrontPage Forums > Computer Science > CS110 > New Topic Testing

This topic contains 0 replies, has 1 voice, and was last updated by patel42d right now.

Viewing 1 post (of 1 total)

Author	Posts
March 28, 2018 at 11:34 pm	<a href="#">Favorite</a>   <a href="#">Subscribe</a> SCORE: 0   EDIT   REPLY #508  <a href="#">URCOURSES LINK</a> <pre>cout &lt;&lt; "This is an example code" &lt;&lt; endl;</pre> <p>patel42d Participant</p>

Viewing 1 post (of 1 total)

REPLY TO: NEW TOPIC TESTING

b

[UofCodeRs Chat \(2\)](#) 

Chrome File Edit View History Bookmarks People Window Help 63% Wed 11:34 PM

New Topic Testing - UofCodeRs x

Not Secure | asafyan.io?topic=new-topic-testing#post-509

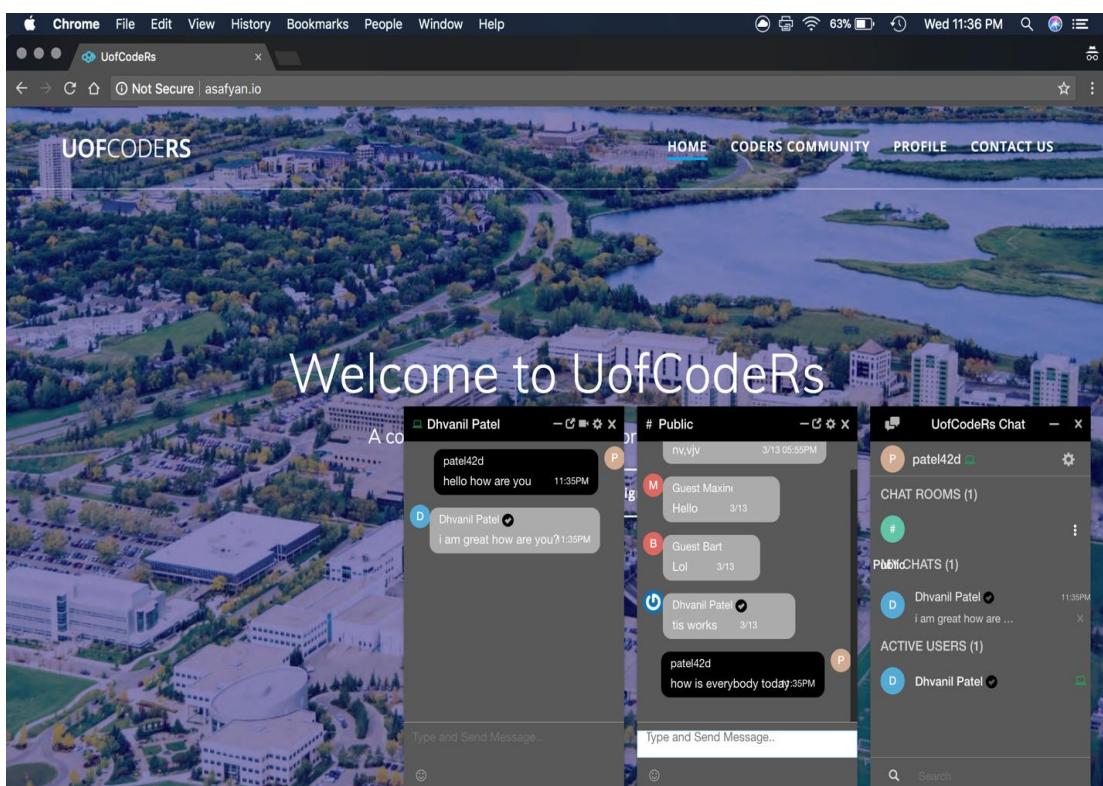
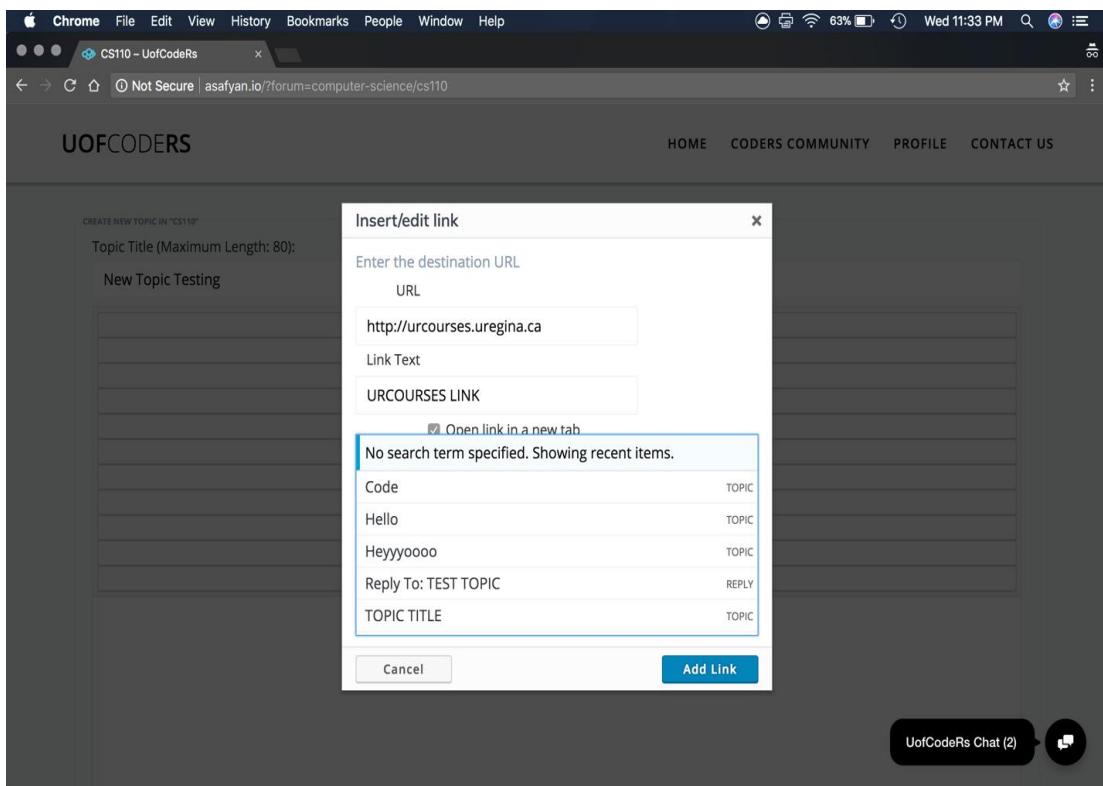
## UOFCODERS

HOME CODERS COMMUNITY PROFILE CONTACT US

Viewing 2 posts - 1 through 2 (of 2 total)

Author	Posts
March 28, 2018 at 11:34 pm	<a href="#">Favorite</a>   <a href="#">Subscribe</a> SCORE: 0   EDIT   REPLY #508  <a href="#">URCOURSES LINK</a> <pre>cout &lt;&lt; "This is an example code" &lt;&lt; endl;</pre> <p>patel42d Participant</p>
March 28, 2018 at 11:34 pm	<a href="#">Favorite</a>   <a href="#">Subscribe</a> SCORE: 0   EDIT   REPLY #509  <p>This is an example response for testing purposes. patel42d Participant</p>

[UofCodeRs Chat \(2\)](#) 



## **Contributions of each team member**

### **Abdulrahman Bin Safyan**

- Created the web server with the necessary specifications
- Created the WordPress environment with necessary specifications
- Created the MySQL database with necessary specifications
- Implemented login and signup tasks for the web application
- Implemented the contact form for the web application
- Implemented chat feature as well as stabilize web application
- Created diagrams for the final report
- Final testing

### **Dhvani Patel**

- Created the WordPress environment with according specifications
- Implemented login and signup tasks for the web application
- Implemented contact form for the web application
- Implemented forum features for the web application
- Implemented chat feature as well as stabilize web application

- Created diagrams for the final report
- Create overall final report
- Final testing

## References

<https://wordpress.com>

<https://en-ca.wordpress.org/plugins/bbpress/>

<https://en-ca.wordpress.org/plugins/iflychat/>

<https://en-ca.wordpress.org/plugins/ultimate-member/>

<https://www.draw.io/>

<https://www.sublimetext.com/3>

<http://brackets.io/>

[http://sourcemaking.com/design\\_patterns/](http://sourcemaking.com/design_patterns/)

<https://stackoverflow.com>

<https://urcourses.uregina.ca/>

<http://godaddy.com>