Deliverable 3 – Project Phase 1 CSCE 5430 (Fall 2021)

Project Title - Sociogram (Web Application)

Team Name – Code6

Group Members –

1. Sathwik Gaddi

2. Tanvi Thirunathan

3. Satish Thammaneni

4. Sai Karthik koncherlakota

5. Raja Srinivas Nelluri

6. Sri Snigdha kotharu

7. Venkata Rajashekar Reddy Chintala

8. Putta Ramya Priya

Version 2.0

Document History

Version	Date	Author	Comments
2.0	15th Oct, 2021	Code 6	Deliverable 3

1. Requirements -

In this first phase of our project, Sociogram, we're building a user website with three features: user profiles, data uploads, and finding friends. For this, we're gathering requirements that will be utilized to create the project's initial phase.

1.1 REQ1 - The user login page should include a form with username and password fields, a login button, and a signup button that, upon successful validation, links to the application's home page and displays an error message if the credentials are invalid. For new users to register for the application, a Signup button should be provided. After the user enters his or her credentials, a user authentication operation will take place to verify that the user's name and password entered are accurate for that user, and the user will be routed to the next page based on the validation result. When a new user clicks the register button, he or she will be requested to choose a username and password before registration.

1.2 REQ2 - A json web token should be addressed from the Node Js server to the frontend after successful login validation to authorize the user throughout the session.

1.3 REQ3 - A signup form that includes Username, Password, Confirm Password, and a dropdown for interests and hobbies is on the signup page. It should then be forwarded to the Login page after successful form validation using JavaScript. There are also certain guidelines that the user must follow while selecting a username and password. The username should be at least 8 characters long and no more than 16 characters long. The passcode should be between 6 and 12 characters long, with at least one special character and a number included.

1.4 REQ4 - The application's home page should provide buttons for creating new posts, finding friends, and logging out.

1.5 REQ5 - A form with fields for tagline, upload post, and privacy should be included on the upload post screen. After picking a photo to submit, the

photo must meet all of the needed layout criteria, and the post will be uploaded and shown on the user's profile after pressing the final upload button.

1.6 REQ6 - A list view should be available on the Find Friends page to display persons with similar interests. This page will show a sorted list of people with similar hobbies and interests to the user.
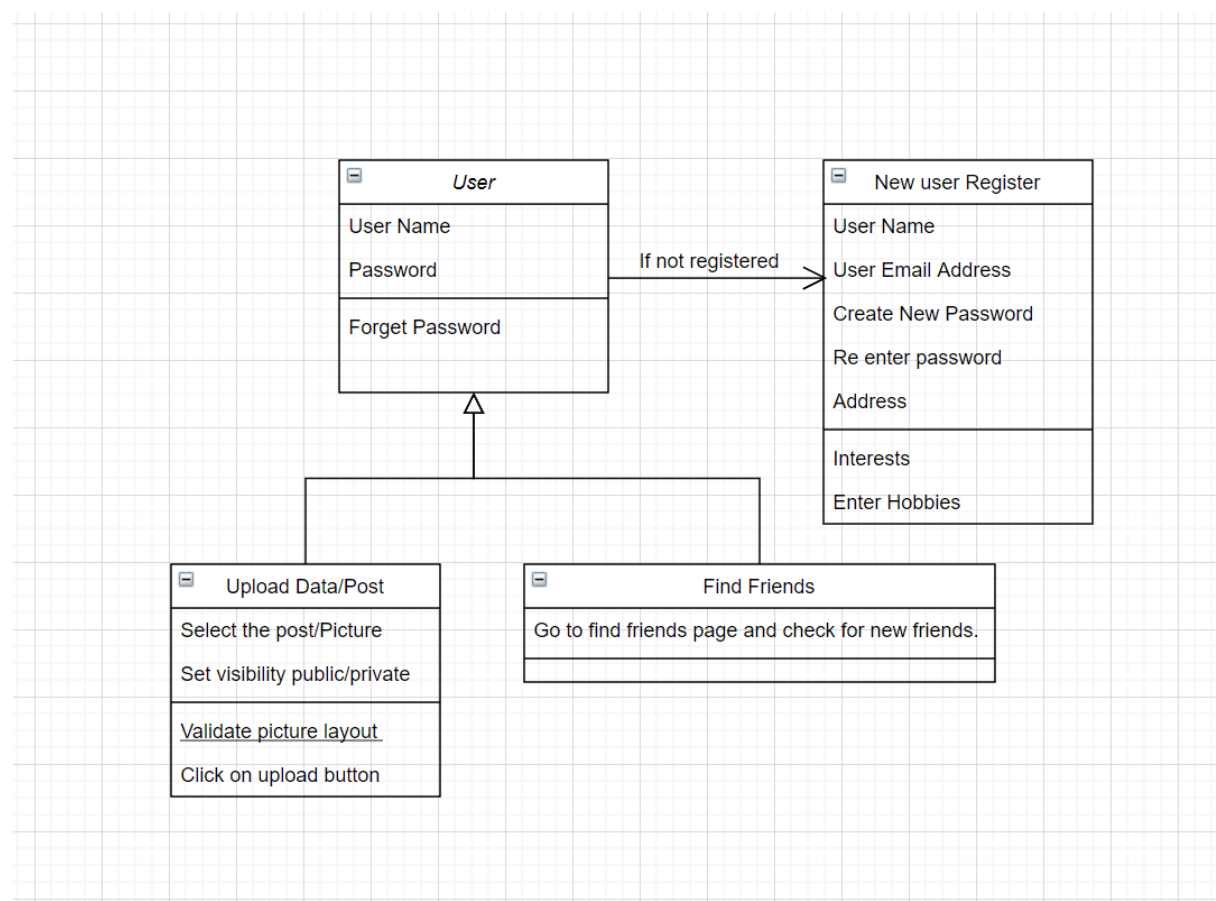
2. UML Design –

2.1 Class Diagram

Fig 2.1 Class diagram for phase1 features
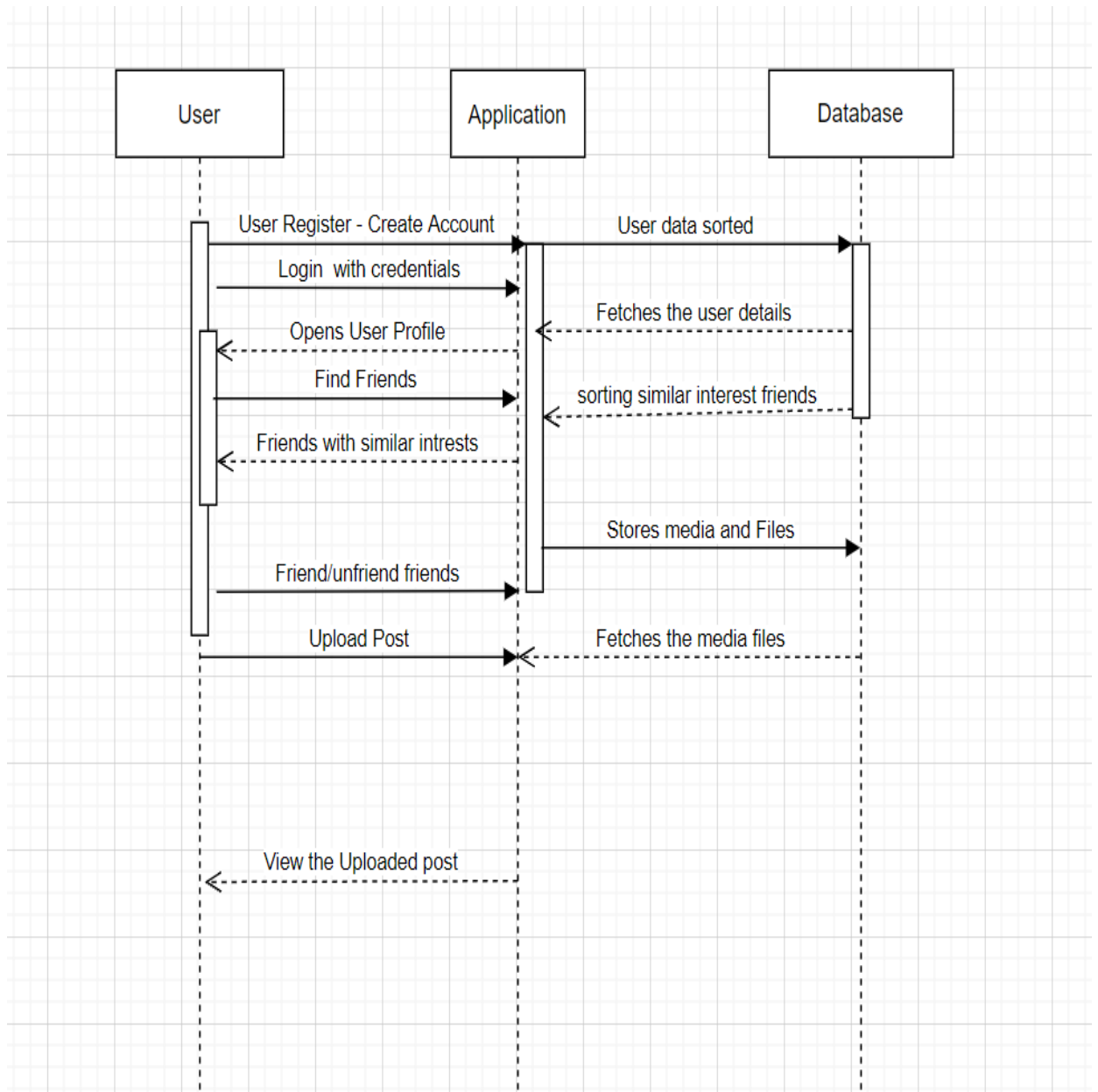
2.2 Sequence Diagram

Fig: 2.2 Sequence diagram for phase1 Features
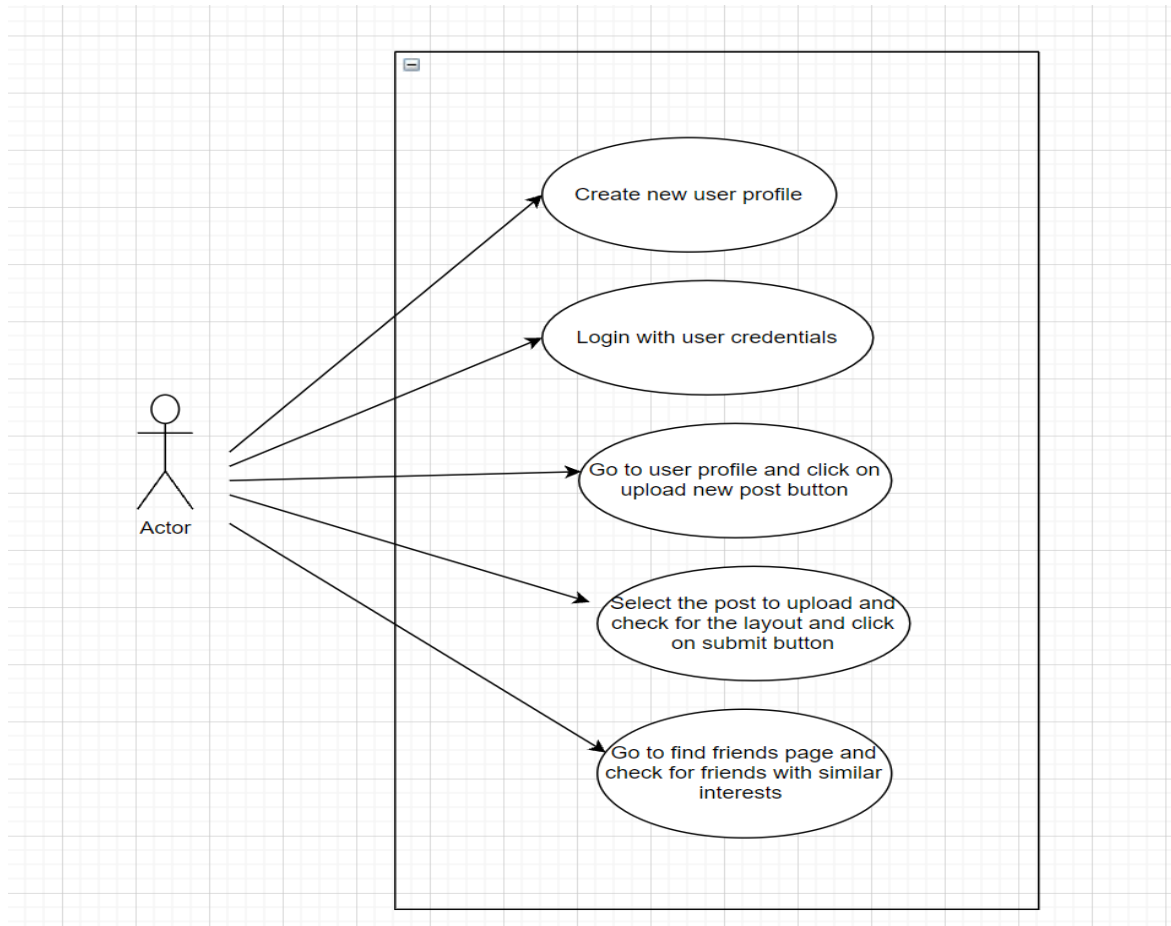
2.3 Use Case Diagram (Normal Case)

Fig 2.3: Use Case Diagram (Normal Case)
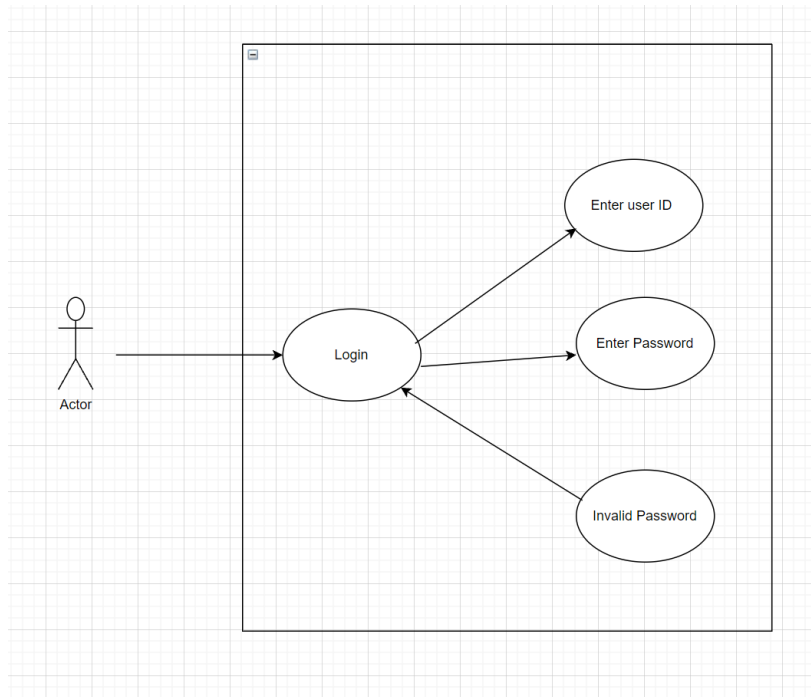
2.4.1 Use Case Diagram (Error Case)

Fig: 2.4.1 Error Case (Login)
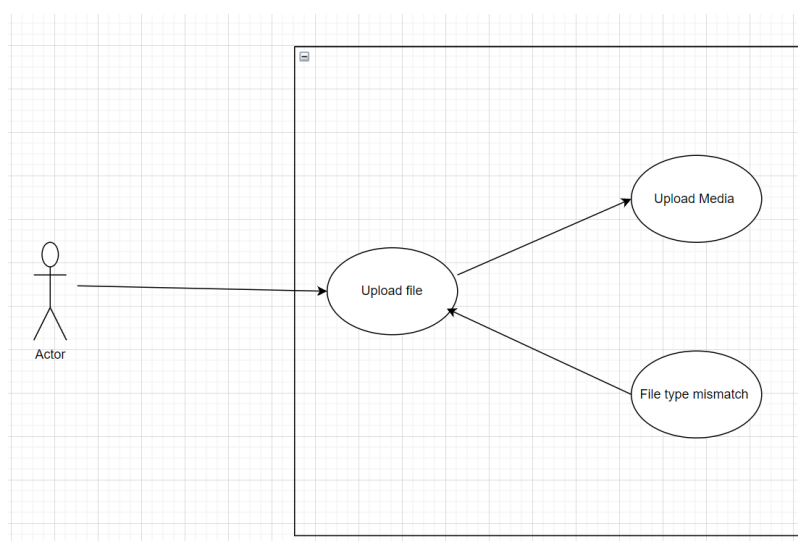
2.4.2 Use Case Diagram (Error Case)

Fig 2.4.2 Use Case Diagram (Upload media)

3. Test Cases

3.1 Signup Page

Description: A user should be able to successfully register for the application.

Precondition: the user must not already be registered with this email address and username.

Assumption: a supported browser is being used.

Test Steps:

1. Navigate to Signup Page.
2. Enter all the details in the form provided.
3. Click 'Sign up'

Expected Result: User must be successfully registered and redirected to the home page.

3.2 Login Page

Description: A user should be able to successfully login to the application.

Precondition: the user must already be registered with this email address and username.

Assumption: a supported browser is being used.

Test Steps:

1. Navigate to Login Page.
2. Enter all the details in the form provided.
3. Click 'Login'

Expected Result: User must be successfully able to login and redirected to the home page after login.

3.3 Find Friends Page

Description: A user should be able to view all the people who have similar interests.

Precondition: the user should provide his/her interests at the time of registration and be logged in to access this feature.

Assumption: a supported browser is being used.

Test Steps:

1. Navigate to Find Friends Page.

Expected Result: User must be successfully able to view all the list of people with similar interests.

3.4 New Post Page

Description: A user should be able to successfully upload a new post.

Precondition: the user must be logged in to access this feature.

Assumption: a supported browser is being used.

Test Steps:

1. Navigate to New Post Page.
2. Enter all the details in the form provided.
3. Click 'Add'

Expected Result: User must be able to successfully upload the post and redirected to home page.

3.5 Posts Page

Description: A user should be able to successfully view the posts.

Precondition: the user must be logged in to access this feature.

Assumption: a supported browser is being used.
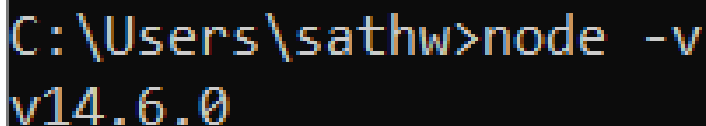
Test Steps:

1. Navigate to Posts Page.

Expected Result: User must be successfully able to view all the posts.

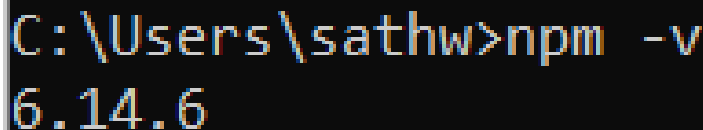## 4. User Manual and Steps to Install –

4.1 Installing NodeJS

To get started installing the NodeJS, follow these steps.

a. Download NodeJS msi file from <u>here</u> .
b. Run the msi file.
c. Check for installations of node and npm in command prompt using following commands:
d. node –v (Upon successful installation you will see the following output)

```
C:\Users\sathw>node -v
v14.6.0
```

e. npm –v. (Upon successful installation you will see the following output)

```
C:\Users\sathw>npm -v
6.14.6
```

4.2 Installing Angular Cli

a. Use npm to install angular cli.
b. Use command npm install –g @angular/cli
c. Use the following to check for the successful installation.

   Ng –version

d. You will see the following output.

```
C:\Users\sathw>ng --version
```



```
Angular CLI: 10.0.4
Node: 14.6.0
OS: win32 x64

Angular:
...
Ivy Workspace:

Package                          Version
---------------------------------------------------------
@angular-devkit/architect        0.1000.4
@angular-devkit/core             10.0.4
@angular-devkit/schematics       10.0.4
@schematics/angular              10.0.4
@schematics/update               0.1000.4
rxjs                             6.5.5
```

4.3 Installing MongoDB

a. Download the in premises local version of MongoDB Community Server msi file from here .

b. To start the MongoDB server, run file

"C:\Program Files\MongoDB\Server\4.2\bin\mongod.exe"

c. This starts the main MongoDB database process. The waiting for connections message in the console output indicates that the mongod.exe process is running successfully. You can see the following:

```
;"]}
"t":{"$date":"2021-10-13T20:14:39.765-05:00"},"s":"I",  "c":"STORAGE",  "id":20536,   "ctx":"initandlisten","msg":"Flow
Control is enabled on this deployment"}
"t":{"$date":"2021-10-13T20:14:40.045-05:00"},"s":"I",  "c":"FTDC",     "id":20625,   "ctx":"initandlisten","msg":"Init
ializing full-time diagnostic data capture","attr":{"dataDirectory":"C:/data/db/diagnostic.data"}}
"t":{"$date":"2021-10-13T20:14:40.049-05:00"},"s":"I",  "c":"NETWORK",  "id":23015,   "ctx":"listener","msg":"Listening
on","attr":{"address":"127.0.0.1"}}
"t":{"$date":"2021-10-13T20:14:40.049-05:00"},"s":"I",  "c":"NETWORK",  "id":23016,   "ctx":"listener","msg":"Waiting f
or connections","attr":{"port":27017,"ssl":"off"}}
```

4.4 Getting the source code

    a. Get the source code from the git repository
   https://github.com/sathwikgaddi/Code6.git
    b. Open command prompt and navigate to project source code folder.
    c. Rum the command **npm install** to install all the dependencies required to
   run the program.
    d. Run command **ng serve** to start the angular server. You will see the
   following output on successful start of the server.

```
C:\myProjects\mean\mean\sociogram>ng serve
10% building 3/3 modules 0 activei ⓘwdsⓘ: Project is running at http://localhost:4200/webpack-dev-server/
i ⓘwdsⓘ: webpack output is served from /
i ⓘwdsⓘ: 404s will fallback to //index.html

chunk {main} main.js, main.js.map (main) 148 kB [initial] [rendered]
chunk {polyfills} polyfills.js, polyfills.js.map (polyfills) 264 kB [initial] [rendered]
chunk {runtime} runtime.js, runtime.js.map (runtime) 6.15 kB [entry] [rendered]
chunk {styles} styles.js, styles.js.map (styles) 177 kB [initial] [rendered]
chunk {vendor} vendor.js, vendor.js.map (vendor) 6.98 MB [initial] [rendered]
Date: 2021-10-14T17:26:33.964Z - Hash: 6ad83e29f464c1521ce8 - Time: 16299ms
** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ **
i ⓘwdmⓘ: Compiled successfully.
```

    e. Navigate to backend folder in command prompt and use command **node
   server.js** to start the server of the backend application.
    f. Open browser and search for **localhost:4200** to open our application.

5. **Peer Review Feedback** –

Partner Group Name - SOUL-CYNICS

Project Name – Defining & Predicting the success of B2B sales

Members –

1. Rishwanth Reddy Baddipadaga

2. Meghana Thimmapuram

3. Preethi Mudireddy

4. Divya Kumbham

5. Neha Geereddy

6. Sri Harsha Swaraj Nadendla

7. Roja Kamble

8. Sai Nikhil Chitturi

Suggestions by Partner Team (SOUL-CYNICS)

a. User password recovery option.

Initially, user would just sign up or login to the website but there was no option for them to reset or have a recovery option in case if they forget password.

We have **accepted** the suggestion and we will be implementing the above suggested feature into the program in phase2 execution. User will be able to recover the password on forgot password page.

b. Access of discussion forums to selected people.

Discussion Forums is a public website that is open to all users who have registered on this site. When the public's opinion or assistance is needed, users can submit their questions or respond to existing/new posts. Furthermore, users may provide thumbs up or down to the answers to their questions, which helps other users with similar doubts choose the solution with the most votes (which makes the solution/answer more trustworthy).

The suggestion by partner team states that the forum should be accessible to the friends that are added based on common interest. As in making it visible based on privacy settings to make it accessible to certain set of people or all the users signed up for the website irrespective of friend list.

We **reject** the suggestion, as the main purpose of discussion forum is to get public opinion. So, we will not be implementing the above feature in the program.

As planned all the feature of phase 1 requirements are implemented and tested thoroughly at our end. Partner team has confirmed that the below mentioned requirements are up to the mark on basis of the elicitation workshop and SRS discussion session

    a. Functional Requirements
    b. Non-Functional Requirements

c. Interfaces (Software, Hardware, User)
   d. Customer Requirements
   e. Documentation

Member Contribution Table –

Member Name	Contribution Description	Overall contribution (%)	Note (If Applicable)
Sathwik Gaddi	Code Inspection File, user manual and steps to install.	25%	
Tanvi Thirunathan	Code Inspection File, Peer Review Feedback	25%	
Satish Thammaneni	Test Cases	5%	
Sai Karthik koncherlakota	Test Cases	5%	
Raja Srinivas Nelluri	Test Cases	5%	
Sri Snigdha kotharu	Requirements, UML designs	15%	
Venkata Rajashekar Reddy Chintala	Test Cases	5%	
Putta Ramya Priya	Requirements, UML designs	15%	