

Deliverable 5 – Project Phase 3 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 5.0

Document History

Version	Date	Author	Comments
5.0	19th Nov, 2021	Code6	Deliverable 5

1. Requirements -

In this third phase of the project “Sociogram”, we are adding additional features to the previous version of the website like change password and User interface enhancement. For this, we're gathering the below requirements

REQ1: The email address of the account holder must be entered in order to change the password.

REQ2: User should enter the old password.

REQ3: New password must not match with the previously used passwords.

REQ4: It should follow password change policy allowing user to enter 8 characters long.

In the current phase of development, we are excluding the feature “Booking Tickets” due time constraints. The revised development phases are described below -

1.2 Development Phases:

We are going to develop our application in three different phases by adding of some extra features in each phase.

Phase 1: In this phase we are going to create a website for sociogram, and we are going to add three crucial features for sociogram.

1. User Profile: Create a login and sign-up page to get personalized user profile. The passwords are hashed using bcrypt algorithm to ensure the privacy of the user.
2. Upload data: Providing access to the clients to upload posts, media, and articles. Include a feature to add privacy for each of their post.
3. Find friends: Find friends with similar habits and hobbies with the help of suggestions. User will provide their interests when they register to find their identical.

Requirements

REQ1: User login page should have a form with username and password fields, a login button, and a signup up button which on successful validation redirects to home page of the application and error message on Invalid credential confirmation. A Signup button should be added for new users to register for the application.

REQ2: Upon successful validation for login, a json web token should be sent from Node Js server to frontend to authorize user throughout the session.

REQ3: Signup page should have a form with First name, Last name, Username, password, confirm password, and a dropdown for interests and hobbies. On successful form validation by JavaScript the page should be redirected to Login page.

REQ4: Home Page of the application should have buttons to upload a new post, discussion forum, find friends and logout.

REQ5: Upload post screen should contain a form with fields for tagline, upload post and privacy.

REQ6: Find friends page should contain a list view to display people with similar interests.

Phase 2: In this phase we are adding two features they are:

1. Discussion forums feature: Open community page where users can raise queries, answer other queries, discuss with a whole lot of people.
2. Update Password: User can be able to access the account and update their password.

Requirements

REQ1: Upon successful json web token authorization, user should be able to access Discussion Forums.

REQ2: Discussion forum page should consist of a list view of all the discussions available in the application.

REQ3: Upvote and Downvote buttons should be available for each discussion.

REQ4: Update Password page should contain a form for Previous and new passwords.

REQ5: After submitting, successful validation of data and authentication of user, Password of the current user should be changed.

Phase 3: In this phase, we are working on enhancing the User interface to make sure it meets the usability testing requirements and also are working on change password feature.

Requirements

REQ1: The email address of the account holder must be entered in order to change the password.

REQ2: User should enter the old password.

REQ3: New password must not match with the previously used passwords.

REQ4: It should follow password change policy allowing user to enter 8 characters long.

2. UML Design –

2.1 Class Diagram

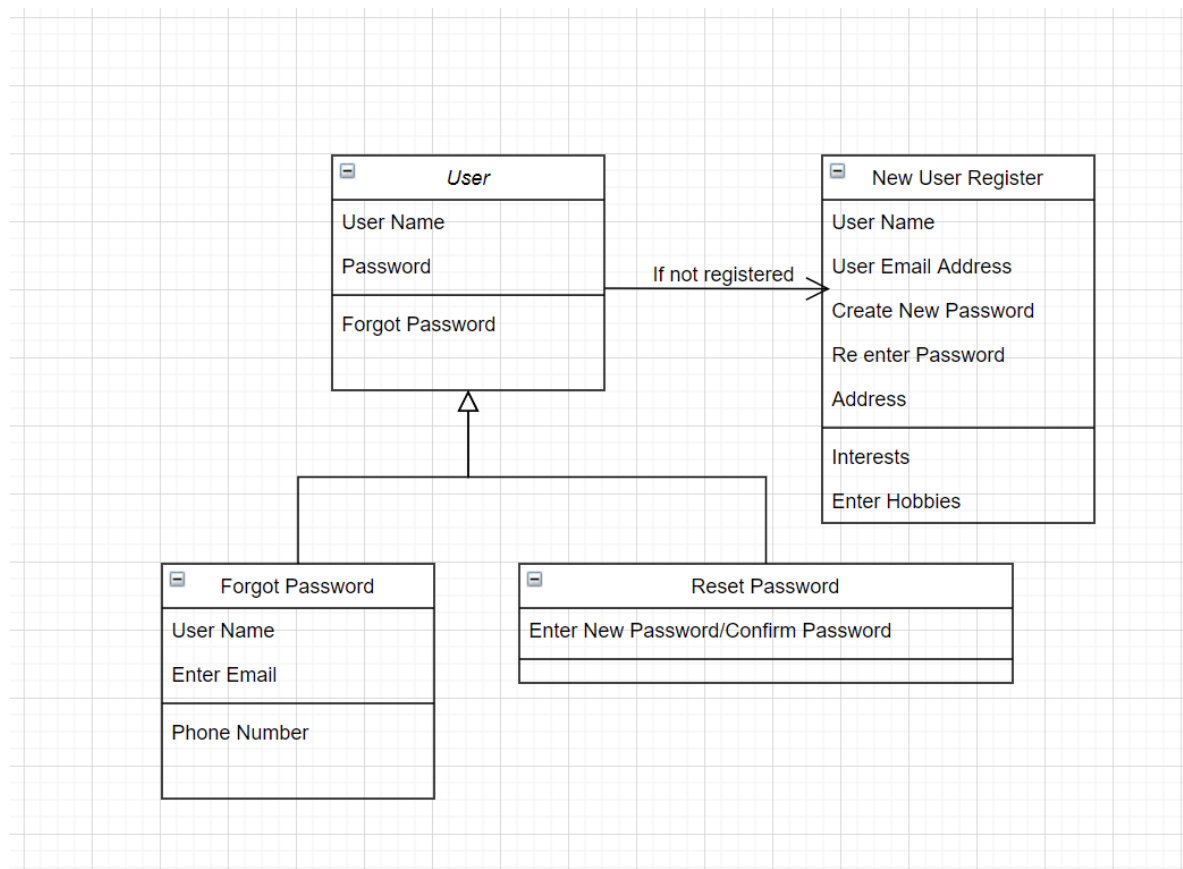


Fig 2.1 Class Diagram for Discussion Forum

2.2 Sequence Diagram

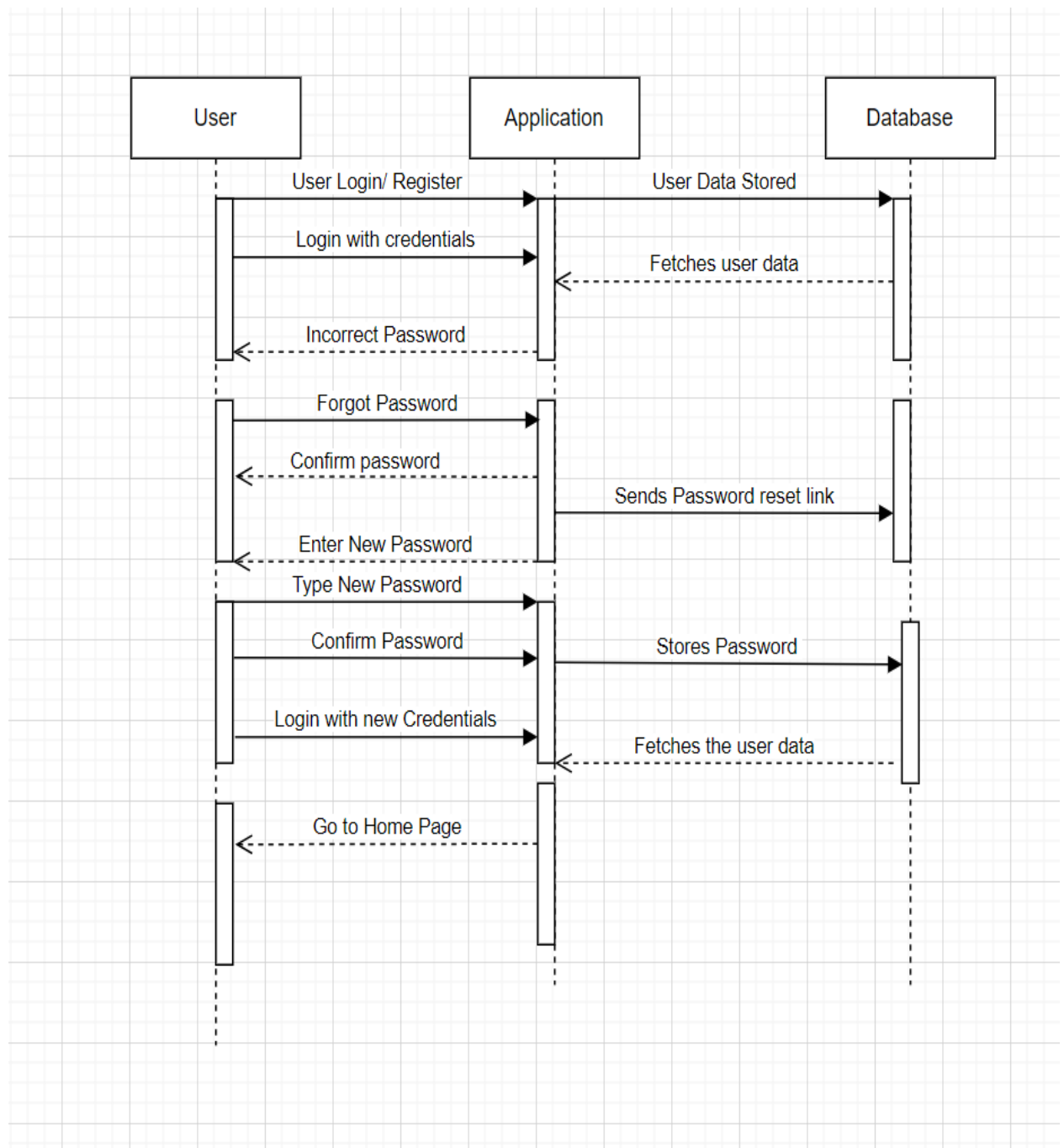


Fig 2.2 Sequence Diagram for Discussion Forum

2.3 Use Cases Diagram (Non-Error and Error Cases)

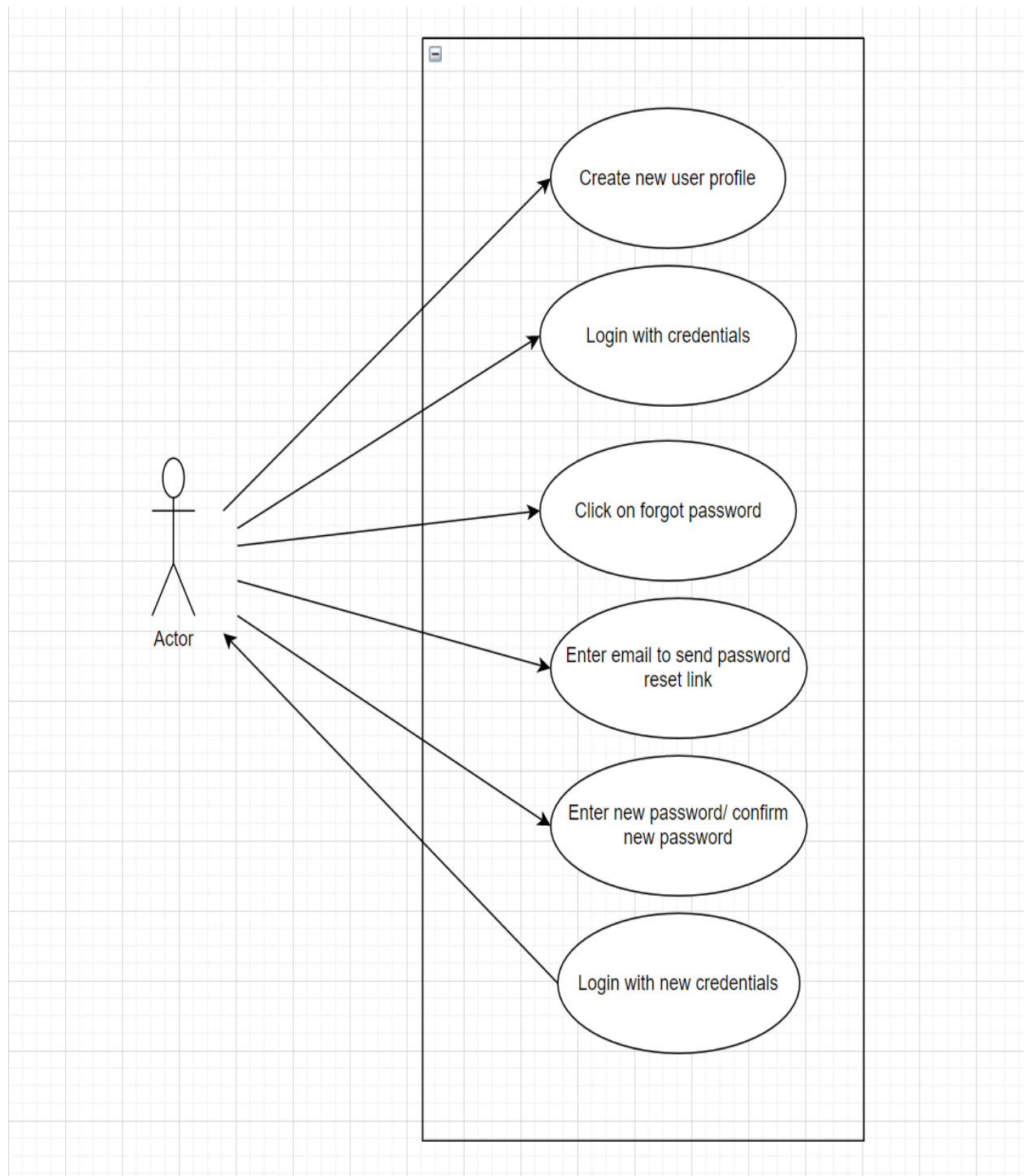


Fig 2.3 Use Case Diagram for Discussion Forum

3. Test Cases –

3.1 Change Password

Description: A user must be able to successfully change his/her password.

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

Assumption: A user is willing to change his/her password but, still knows his old password.

Test Steps:

- Navigate to “Change password”.
- Type “Current Password”.
- Type “New Password”.
- Type same password “Confirm New Password”.
- Click on “Change Password”.

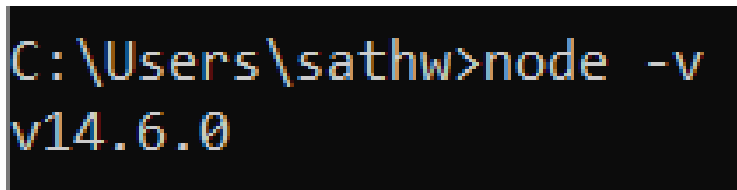
Expected Result: User must be successfully able to change his/her password.

4. User manual -

4.1 Installing NodeJS

To get started installing the NodeJS, follow these steps.

- a. Download NodeJS msi file from [here](#).
- 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

- f. Use npm to install angular cli.
- g. Use command `npm install -g @angular/cli`
- h. Use the following to check for the successful installation.

`Ng --version`

- i. You will see the following output.

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

The logo for Angular CLI, featuring the word "Angular" in a stylized font with a small square icon to its left, and the word "CLI" in a blocky, outlined font to its right.

```
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.

5. Compiling Instructions –

5.1 Getting the source code

- Get the source code from the git repository <https://github.com/sathwikgaddi/Code6.git>
- Open command prompt and navigate to project source code folder.
- Run the command **npm install** to install all the dependencies required to run the program.
- 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 active i @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 **nodemonserver.js** to start the server of the backend application.
Open browser and search for **localhost:4200** to open our application.

6. Implementations and feedback –

As per the initial plan of the project we have implemented the below features during each of the phases.

Phase 1 –

- User profile
- Upload data
- Find friends

Phase 2 –

- Discussion forums
- Update password

In this phase, we could not implement the feature “Chatting and calling” due to time constraints. The same was communicated via reports in deliverable 4.

The feedbacks received from the peer evaluation and SRS document discussions were keenly understood and the necessary updates/modifications and reasoning were made accordingly.

In the current phase of development, change password and UI design and implementation are worked on.

Furthermore, the project will be more focussed on passing the usability test cases in order to make sure the user experience is achieved.

7. Things Accomplished –

The below features were implemented so far:

Phase 1 –

- User profile
- Upload data
- Find friends

Phase 2 –

- Discussion forums
- Update password

Phase 3 –

- Change password
- UI enhancement

The communication among the team has been eventually getting better in terms of alerting the team in case of queries or concerns on project and initiating the tasks to make sure the process goes smoothly.

The feedbacks that we have received from the partner team (SOUL_CYNICS) and the comments from TA and Instructors are understood well and the same is being discussed among the team such that the mentioned points are kept in mind for upcoming deliverables.

8. Member Contribution Table –

Member Name	Contribution Description	Overall Contribution (%)	Note (If Applicable)
Sathwik Gaddi	Requirements, Things accomplished, Formatting	12.5 %	

Tanvi Thirunathan	Implementations and Feedback, Member contribution Table, Formatting	12.5 %	
Satish Thammaneni	Requirements	12.5 %	
Sai Karthik koncherlakota	Test Cases	12.5 %	
Raja Srinivas Nelluri	Instructions to compile and run	12.5 %	
Sri Snigdha kotharu	UML design	12.5 %	
Venkata Rajashekar Reddy Chintala	User manual	12.5 %	
Putta Ramya Priya	UML design	12.5 %	