



National University
of computer and emerging sciences

Software Engineering Iteration 3

“Society Sphere”

Team Name:

Quasar Trio

Members:

Muhammad Ahsan

21I-0786 (Project Leader)

Muhammad Usman

21I-0653(Lead Developer)

Fatima Saad

21I-0405(Designer & Architect)

Section:

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Date of Submission:

16th, February;2024

Student Signature:

Ahsan

Usman

Fatima

Marks:

Remarks:

Teacher Signature:

User Stories:

- ❖ As a user, I want to successfully register in the system so I can login into the system.
- ❖ As a user, I want to login successfully so I can use the features of the system.
- ❖ As a user, I want to receive an email verification, so I can confirm my email address and activate my account.
- ❖ As a society administrator, I want to access the “Add Society’ feature, so that I can start the process of adding a new society.
- ❖ As a society leader, I want to access the “Manage Society’ feature, so that I can add new members, make new announcements.
- ❖ As a society event organizer, I want to access the "Create Event" feature, so I can start the process of organizing a new event.
- ❖ As a member of society, I want to take part in society events so I can help the growth of society.
- ❖ As a member of society, I want to provide feedback and get responses.

Structured specification:

1.User story:

As a user, I want to successfully register in the system so I can login into the system.

Sub User stories:

- As an administrator, I want to register the president of the society.
- As a new member, I want to register in society easily.

2.User story:

As a user, I want to login successfully so I can use the features of the system.

Sub User stories:

- As an administrator, I want to login so I can access all societies and see the reports of the societies.
- As a society leader, I want to login so I can have full access to my society.
- As a member, I want to login so I can see the announcements in society and take part in society activities.
- As event organizer, I want to login so I can organize an event of a society.

3.User story:

As a user, I want to receive an email verification, so I can confirm my email address and activate my account.

Sub User stories:

- As an administrator, I want to configure the email verification to ensure smooth user registration
- As a User, I want to receive a notification if my verification fails, so I can resolve the issue and activate my account.

4.User story:

As a society administrator, I want to access the “Add Society” feature, so that I can start the process of adding a new society.

Sub User stories:

- As a society administrator, I want to upload a logo or image when adding a new society, to represent the new society.
- As a system administrator, I want to verify the information provided during the society adding process, so that I can ensure the data accuracy.
- As a society administrator, I want to receive a confirmation message after adding a new society, to confirm that the addition process was completed successfully.
- As a society administrator, I want to see the society details before completing the addition, to ensure accuracy and completeness.

5.User story:

As a society leader, I want to access the “Manage Society” feature, so that I can add new members, make new announcements.

Sub User stories:

- As a society leader, I want to assign specific roles to members, such as president, vice president, etc., to distribute responsibilities.
- As a society leader, I want to use the "Manage Posts" feature, so I can create, edit, or remove posts in society.

- As a society leader, I want to schedule announcements to be posted at specific dates and times, to ensure timely communication with society members.

6.User story:

As a society event organizer, I want to access the "Create Event" feature, so I can start the process of organizing a new event.

Sub User stories:

- As a society event organizer, I want to fill out a form with necessary details such as event name, description, date, time, location, etc. when creating a new event, to provide information to potential participants.
- As a society event organizer, I want to create event reminders to remind participants of the event date, time, and location.
- As a society event organizer, I want to see event feedback to evaluate event success for future improvements.

7.User story:

As a member of society, I want to take part in society events.

Sub User Stories:

- As a member, I want to be notified via emails about upcoming events.
- As a member, I want to ensure smooth registrations for society events online so that management is easier.
- As a member, I want to gain access to all prior event information and future events.

8.User story:

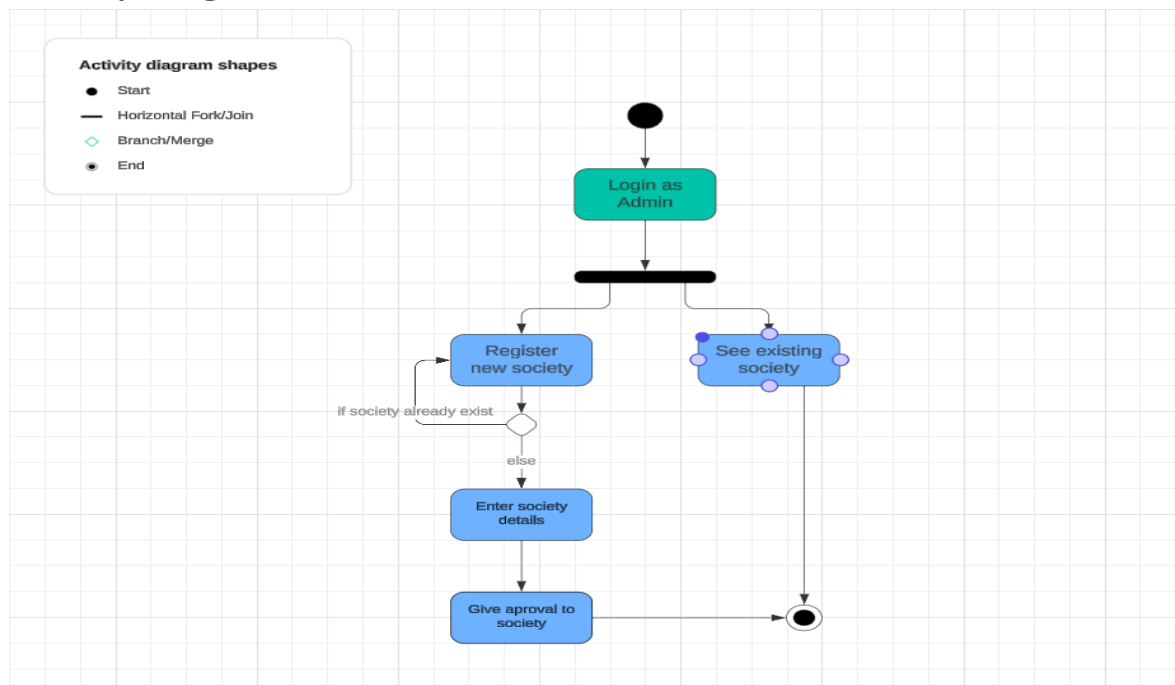
As a member of society, I want to provide feedback and vote for the president of society.

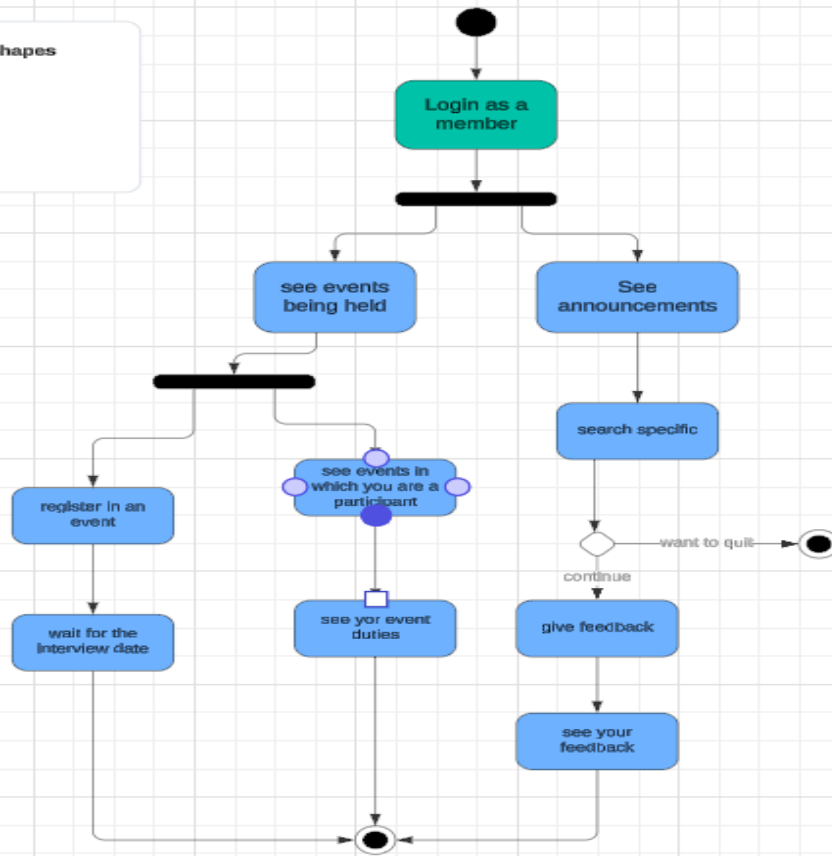
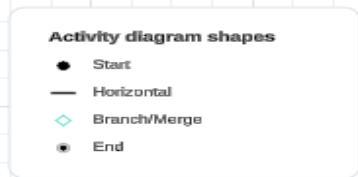
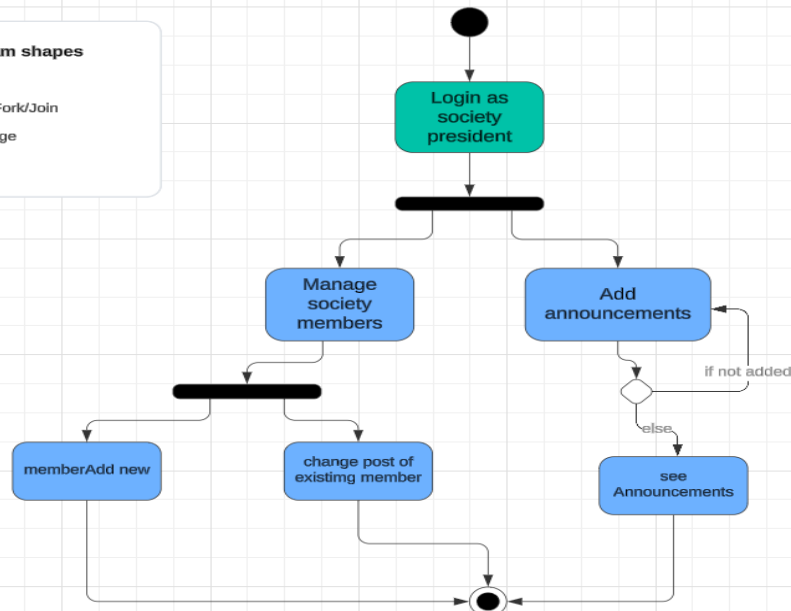
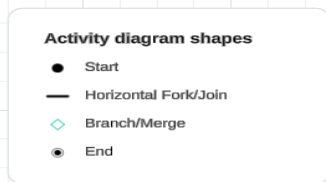
Sub User Stories:

- As a member, I want to give feedback on society activities to improve future events and make sure that they are according to members' interests.
- As a member, I want to cast a vote for the candidates standing for the position of society president.
- As a member, I want the voting process to be safe and anonymous so that elections are fair.

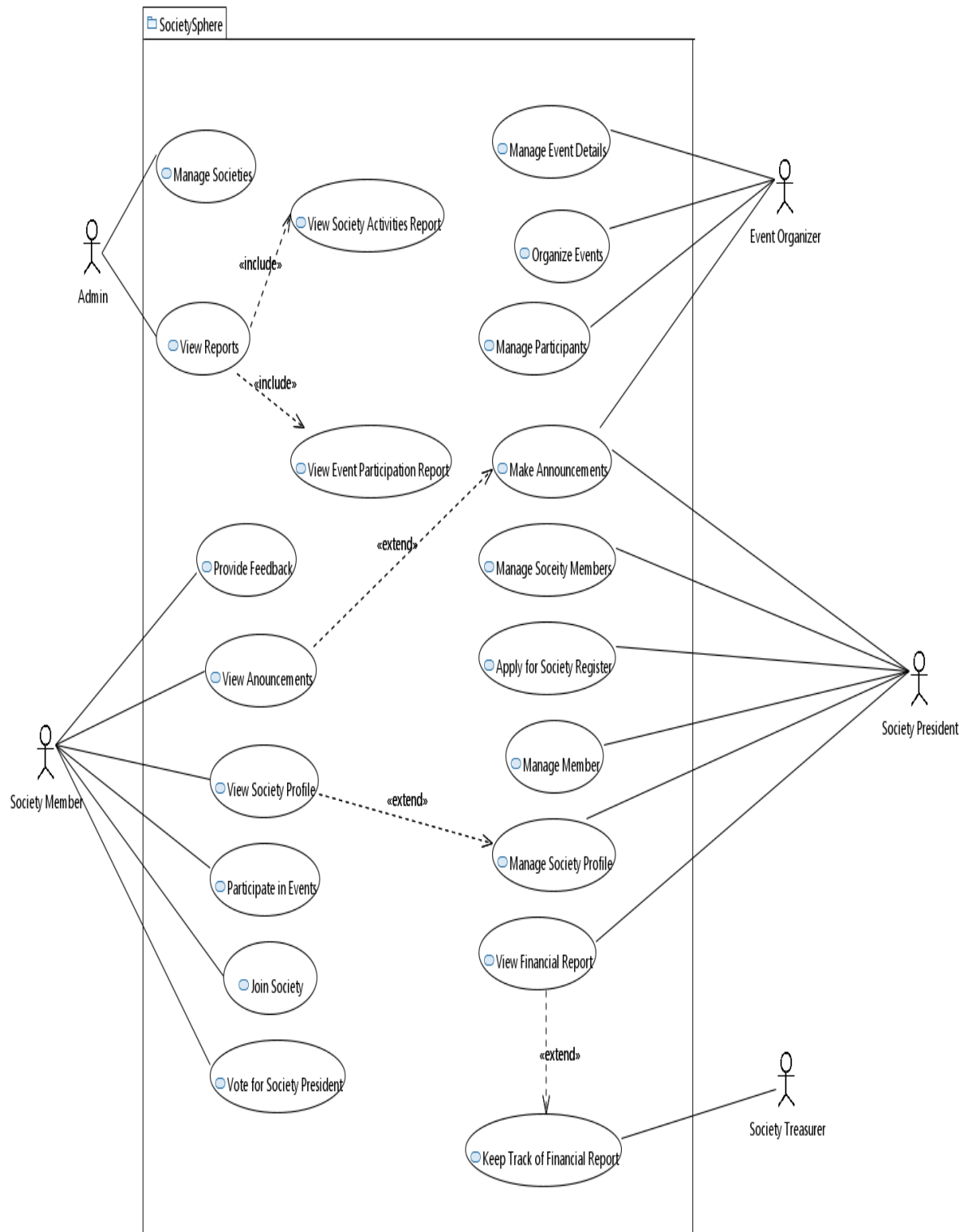
Design:

Activity Diagram:



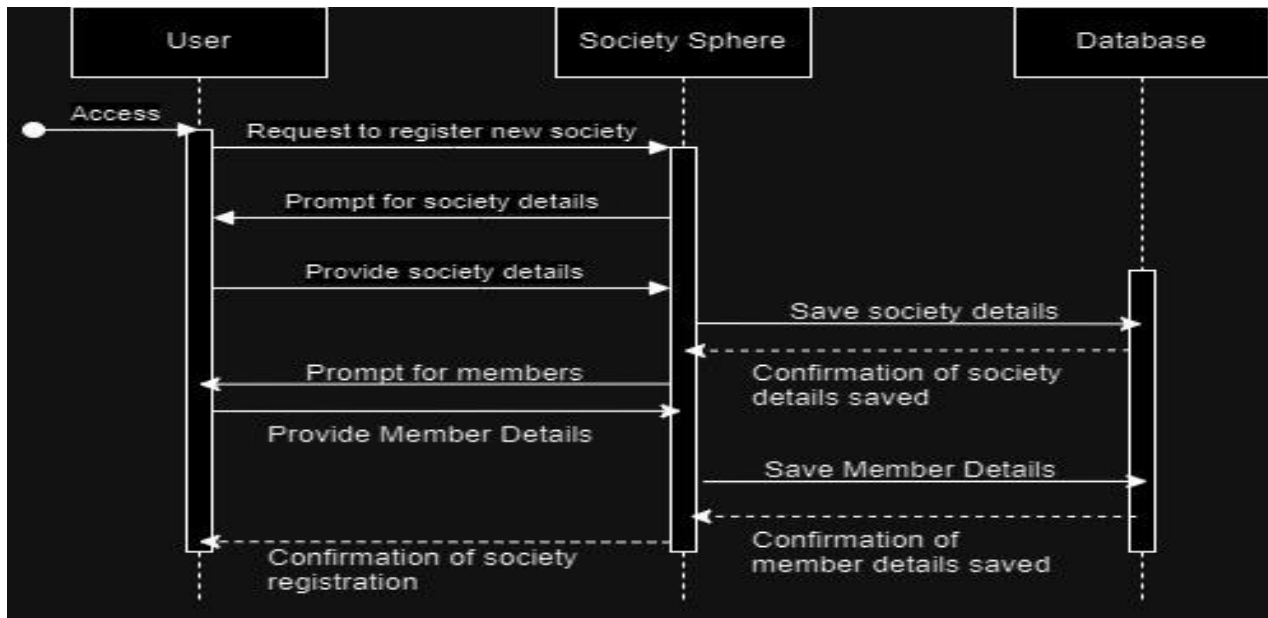


Use case diagram:

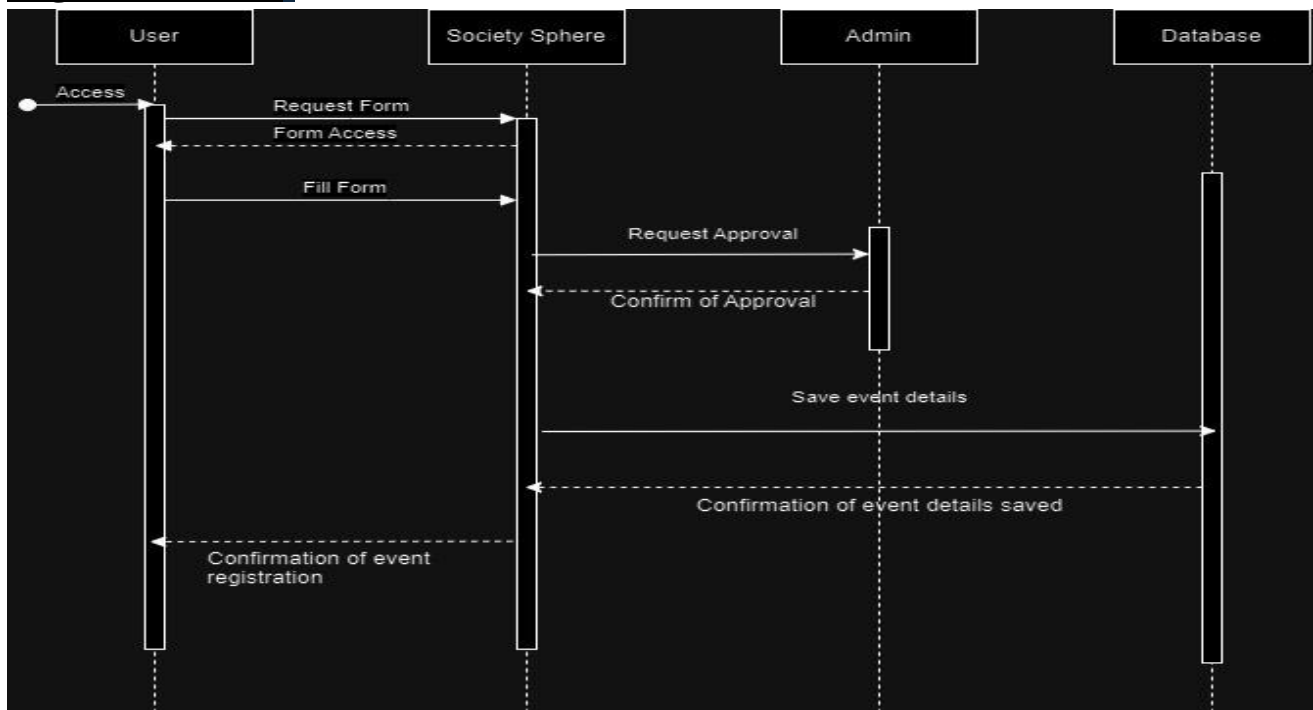


Sequence diagram:

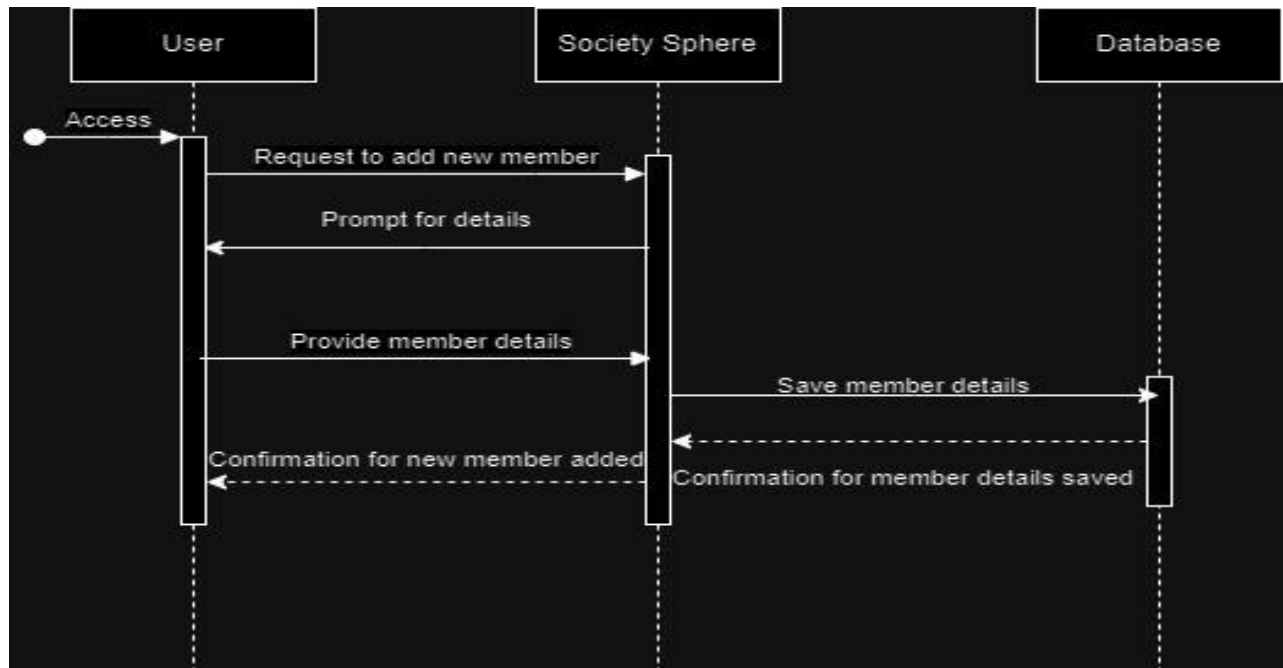
Register Society:



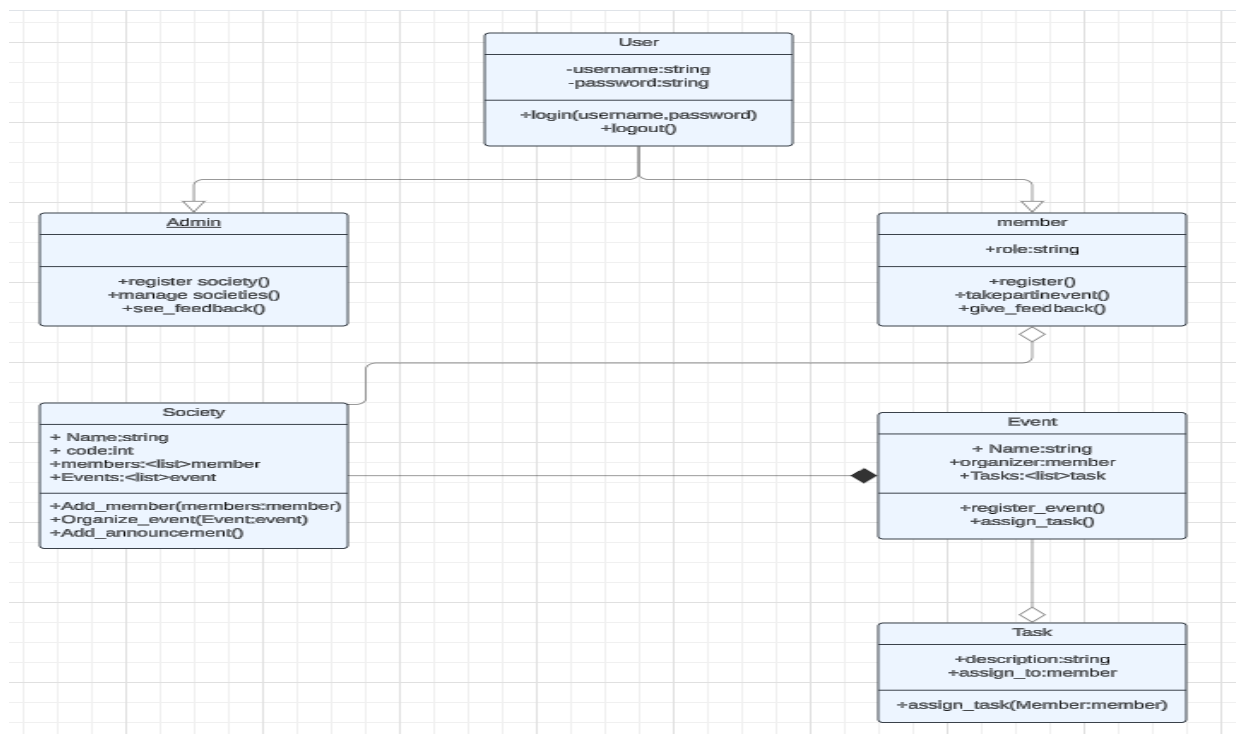
Register an event:



Add new member:



Class diagram:

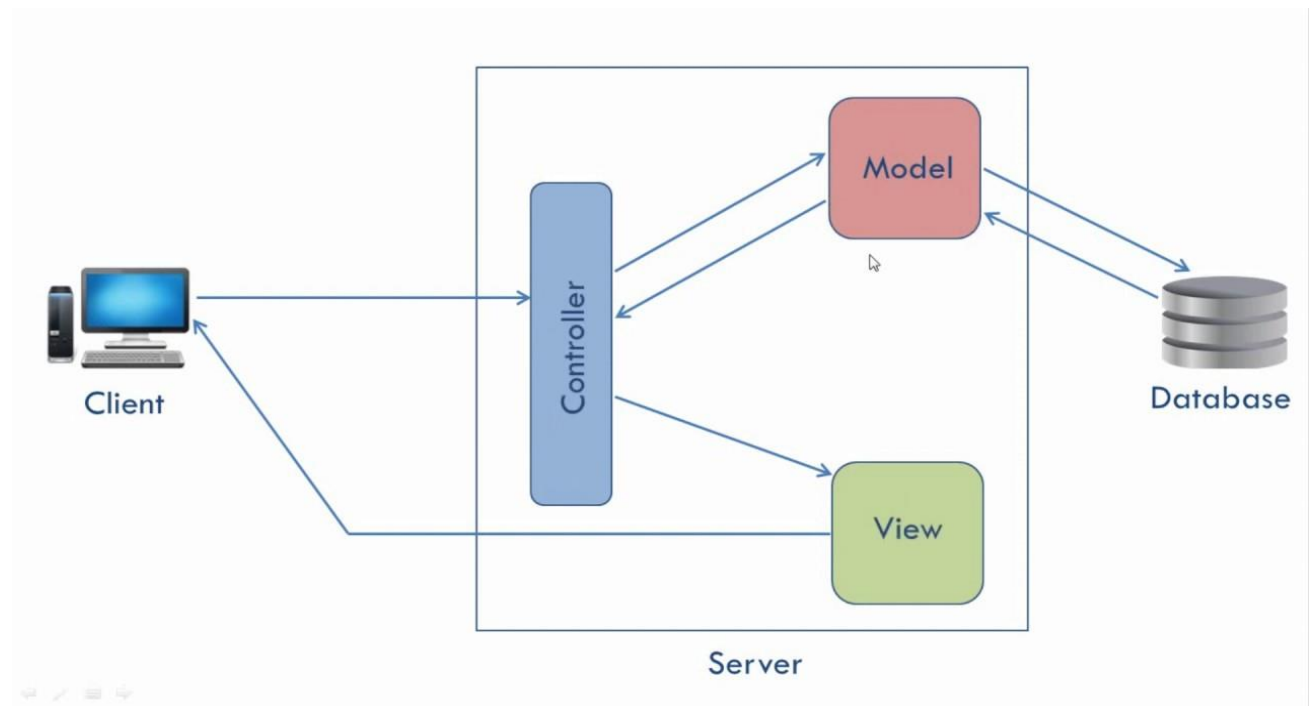


Architecture:

The MVC architecture can be beneficial in our scenario of managing societies of universities

- MVC architecture, each layer is independent and can be developed and tested separately
- MVC architecture eases unit testing and integration testing because each layer can be tested independently.
- MVC architecture can provide many benefits in terms of maintainability, scalability, testability, and flexibility, making it a suitable choice for your project of managing societies of universities.

Diagram:



Boundary Value Analysis:

We are using Microsoft Identity for User Management, Authentication and Authorization.

Login:

Both Email and password have **at least one digit, one lower case, one upper case, length is greater than 6 and 1 unique character**. Email has @ and .com.

Field	Example	Valid/Invalid	Reason of Invalid
Username	Ahsan786@gmail.com	Valid	
Username	Usman@gmail.com	Invalid	No digit
Username	fatima412@gmail.com	Invalid	No uppercase
Password	AHSAN_786	Invalid	No Lowercase
Password	Usman653	Invalid	No Special Character
Password	Fatima@412	Valid	
Password	1122@	Invalid	Length < 6

Add Member:

Name: At least one lowercase, one upper case and length is greater than 6.

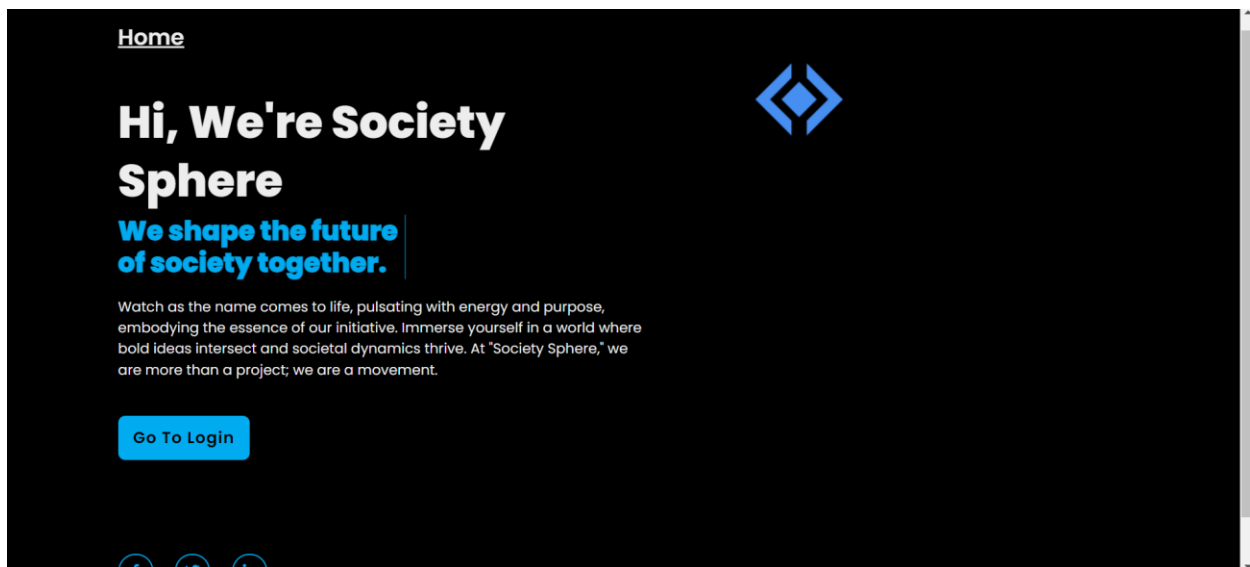
Roll No: Start with 21i- and length must be 8.

Email: Email has at least one digit, one lower case, one upper case, length is greater than 6 and 1 unique character. Email has @ or .com.

Field	Example	Valid/Invalid	Reason of Invalid
Name	usman	Invalid	No uppercase
Name	Fatima	Valid	
Roll No	21i-0698	Valid	
Email	Usman653@gmail.com	Valid	

Email	Ahsan@gmail.com	Invalid	No digit
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Implementation pics:



Welcome to Our Society

[Create Society](#)[View Announcements](#)[View Feedback](#)[Logout](#)

Create New Society

Society Name:

Campus Level

Society Name:

Sports

Mentor Name:

Usman

Society Introduction:

"Welcome to our Art Society, where creativ

[Contact Info](#)

President:

Ahsan

[Members](#)

GPA:

3.5

[Tentative Plans](#)

Semester:

6

View Announcements

Art Society

April 26

"Attention all members! We're thrilled to announce our upcoming art exhibition showcasing the talent and dedication of our society's artists. Mark your calendars for April 26 and join us for an unforgettable celebration of creativity and expression. Artists, get ready to showcase your work, and attendees, prepare to be dazzled by the diverse array of artistic visions on display. Stay tuned for more details on how you can participate and make this event a resounding success! Let's make our mark on the art world together!".

View Feedback

Daniyal

"The feedback from our recent society event has been overwhelmingly positive! Members praised the well-organized logistics, engaging activities, and inclusive atmosphere. Many expressed appreciation for the opportunity to connect with fellow enthusiasts and gain new insights into the topic discussed. However, some noted a desire for more hands-on workshops and interactive sessions in future events to further enhance their learning experience. Overall, it's evident that our society continues to thrive and evolve, thanks to the invaluable input and enthusiasm of our members. We look forward to incorporating your feedback and making our future events even more enriching and enjoyable for everyone involved!.

Welcome to Our Society

[Add Member](#)[Remove Member](#)[Make Announcements](#)[Logout](#)

Add Member

Member Name:

Member Role:

Remove Member

Member ID:

4

Member Name:

Daniyal

Remove Member

Society Announcements

Attention all members! We're thrilled to announce our upcoming art exhibition showcasing the talent and dedication of our society's artists. Mark your calendars for 26 April and join us for an unforgettable celebration of creativity and expression. Artists, get ready to showcase your work, and attendees, prepare to be dazzled by the diverse array of artistic visions on display. Stay tuned for more details on how you can participate and make this event a resounding success! Let's make our mark on the art world together!

Post Announcement

Welcome to Our Society

[Request to Join Society](#)[Apply for Participation](#)[Feedback](#)[View My Feedback](#)[Logout](#)

Request to Join Society

Name:

Roll Number:

GPA:

Society Name:

Experience (if any):

Why do you want to join?

Apply for Participation

Name:

Ahsan

Roll Number:

2110653

Position in Society:

Head

Experience (If any):

No

Submit Application

Feedback Form

"The feedback from our recent society event has been overwhelmingly positive! Members praised the well-organized logistics, engaging activities, and inclusive atmosphere. Many expressed appreciation for the opportunity to connect with fellow enthusiasts and gain new insights into the topic discussed. However, some noted a desire for more hands-on workshops and interactive sessions in future events to further enhance their learning experience. Overall, it's evident that our society continues to thrive and evolve, thanks to the invaluable input and enthusiasm of our members. We look forward to incorporating your feedback and making our future events even more enriching and enjoyable for everyone involved!."

Submit Feedback

Welcome to Our Society

[Organize Event](#)[Make Announcement](#)[Logout](#)

Event Organization

Event Name:

Event Date:

Event Time:

Event Location:

Event Description:

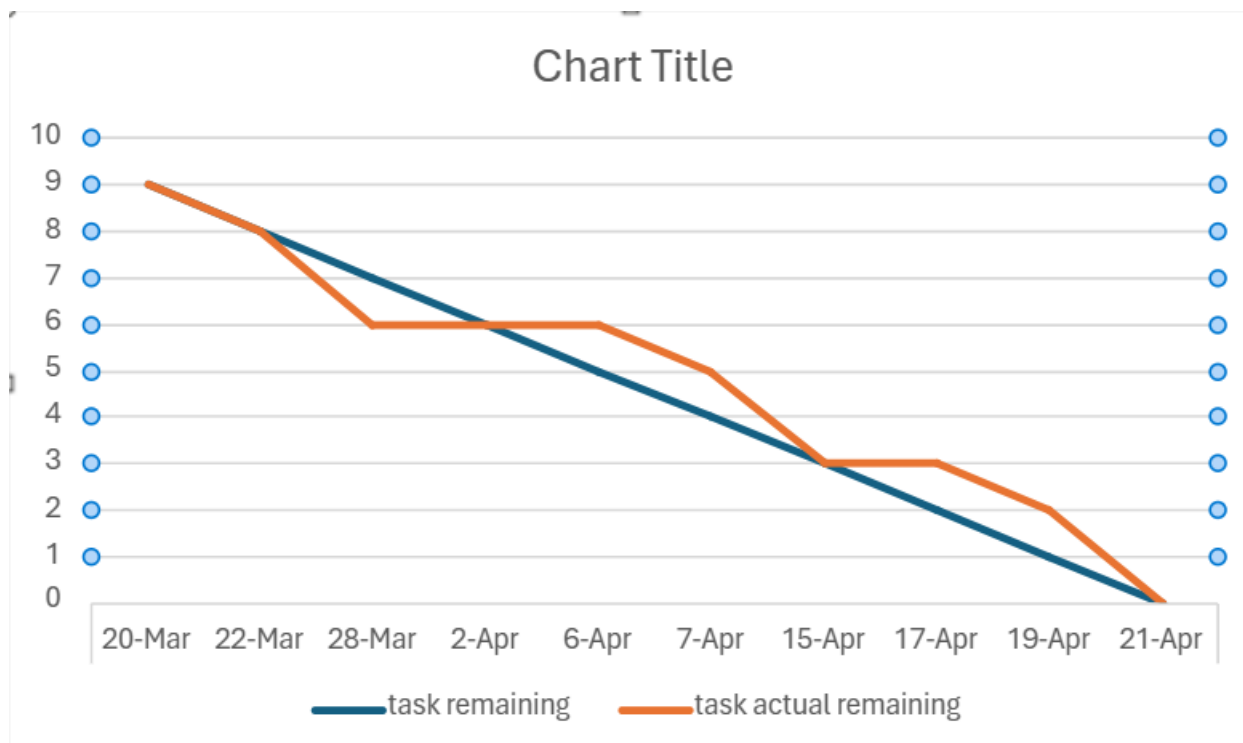
Create Event

Society Announcements

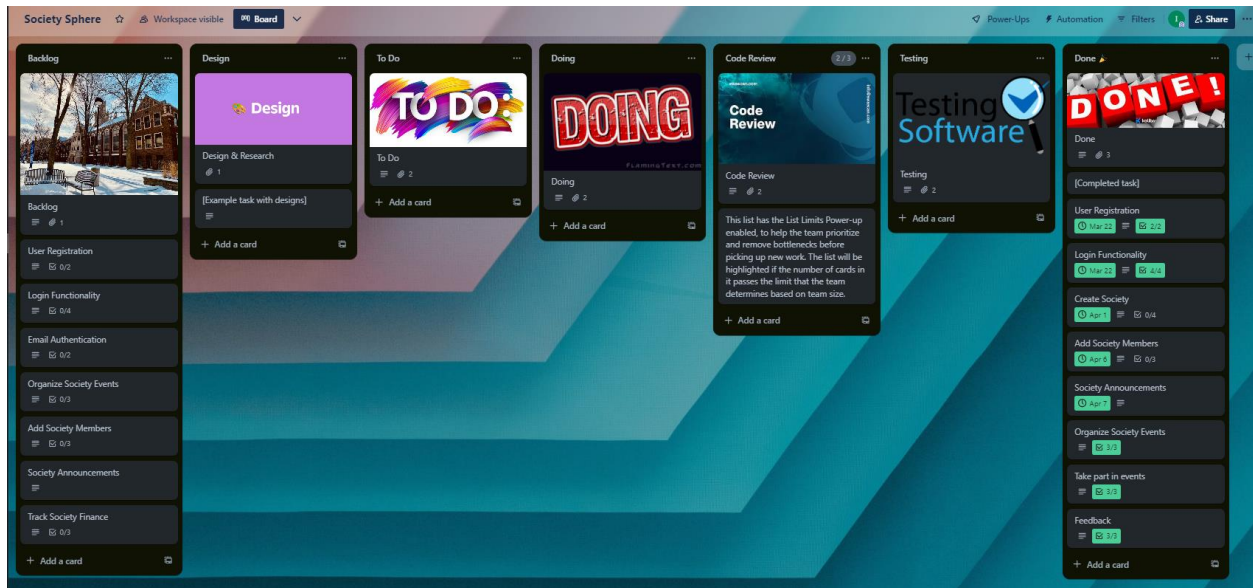
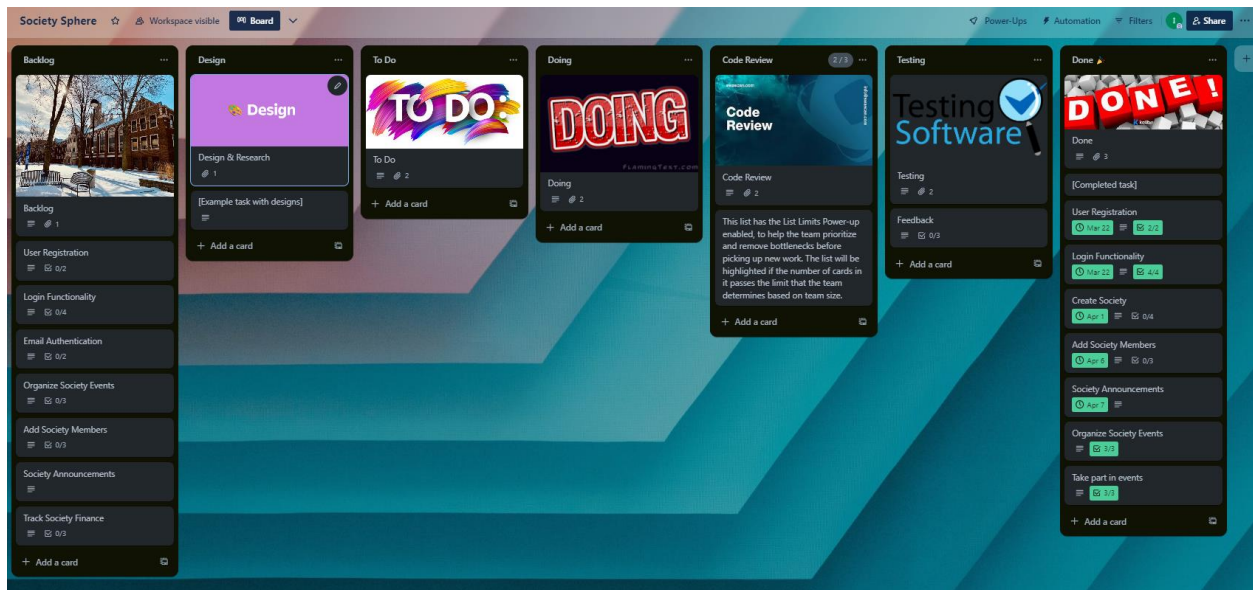
Attention all members! We're thrilled to announce our upcoming art exhibition showcasing the talent and dedication of our society's artists. Mark your calendars for 26 April and join us for an unforgettable celebration of creativity and expression. Artists, get ready to showcase your work, and attendees, prepare to be dazzled by the diverse array of artistic visions on display. Stay tuned for more details on how you can participate and make this event a resounding success! Let's make our mark on the art world together!

Post Announcement

Burn Down Chart:



Scrum Board:



Work Division:

<u>Name</u>	<u>Work Done</u>
Muhammad Ahsan	User stories along with their substories, Activity diagrams, documentation, testing.
Muhammad Usman	Use case diagram, class diagram Backend code of the project.
Fatima Saad Naik	Sequence diagrams, User stories and implementation of GUI

Lesson Learnt:

- We must respect each group member so we can work together easily.
- We should increase communication in our group to timely overcome the issues.
- When we are in a group then the testing of different people leads to early bug catching that makes the quality of our project best.