

A Project Report On e-Blog

**In Partial Fulfillment of
Master of Computer Applications
Submitted To**

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Under Guidance of

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INTRODUCTION

1.1 EXISTING SYSTEM:

- In current Internet Generation You see So Many Blogger around Us.
- So These Website will Provide You to a New Platform for Blogging.
- Major problem was the lack of security.
- You Can Easily Use it And Create, Read, Delete and Update it Very Easily.

1.2 NEED FOR THE NEW SYSTEM:

We are Makes Changes like Two-Factor Authentication; Customization; Category As Per Your Choice.

1.3 TOOLS AND TECHNOLOGY:

- Frontend :- HTML5, CSS, JS
- Backend :- Python
- Database :- SQLite
- Tools :- Draw.io, Google Chrome, PyCharm

OBJECTIVE OF THE NEW SYSTEM:

- Enhanced User Experience
- Scalability and Performance
- Security and Privacy
- Mobile Responsiveness
- Analytics and Insights:
- Customization and Flexibility

1.4 Problem Definition :

- Outdated Technology
- Poor Performance
- Scalability Challenges
- Security Vulnerabilities
- Mobile Responsive Issues

1.5 Core Components :

Content Management System (CMS): The CMS is the central component responsible for creating, editing, organizing, and publishing blog content.

Frontend Interface: It includes components such as the homepage, individual blog post pages, category/tag pages, user profiles, and search functionality.

Commenting System: This component allows readers to engage with blog posts by leaving comments and interacting with other users.

Search Functionality: It indexes blog content and provides relevant search results based on user queries, enhancing content discoverability and user experience.

Social Media Integration: Integrating with social media platforms allows users to share blog posts easily with their social networks.

Backup and Restore: Regular backups of the database and files ensure data integrity and facilitate recovery in case of data loss or corruption.

Customization Options: Providing users with customization options for the appearance and layout of the blog enhances user satisfaction and engagement.

1.6 PROJECT PROFILE :

Project Profile	e-Blog
Project duration	2 Months
Team Members	3
Team members name and Enrollment no	Vivek Zala(23CI2110142) Ankita Bhuva(23CI2110014) Yashvi Patel(23CI2110093)
Guided By:-	Prof. Ankita Gandhi

1.7 ASSUMPTIONS AND CONSTRAINTS :

ASSUMPTIONS

- Availability of data
- User Internet access
- User Understanding
- Scalability

CONSTRAINTS

- Data Privacy and Security
- Resources limitations
- Technological Limitations

1.8 ADVANTAGES AND LIMITATIONS OF THE PROPOSED SYSTEM :

ADVANTAGES

- Cost Effective
- Prompt Responses
- Personalized Recommendations
- Accessibility

LIMITATIONS

- Integration Challenges
- Privacy Concerns
- Technical Limitations
- Lack of Human Interaction
- Data Migration Challenges

2. REQUIREMENT DETERMINATION AND ANALYSIS

2.1 REQUIREMENT DETERMINATION:

- Requirements analysis is the process of defining what the user requires from the system and defining the requirements clearly and in an unambiguous state.
- The outcome of the requirement analysis is the software developing activities.
- Thus it deals with understanding the problem goals and constraints.
- . This specification part mainly focuses on what had been found during analysis.
- A requirement is a relatively short and concise piece of information, expressed as a fact.
- It can be written as a sentence or can be expressed using some kind of diagram.
- Requirements are divided into two major types functional and nonfunctional.

2.2 TARGETED USERS:

Admin:-

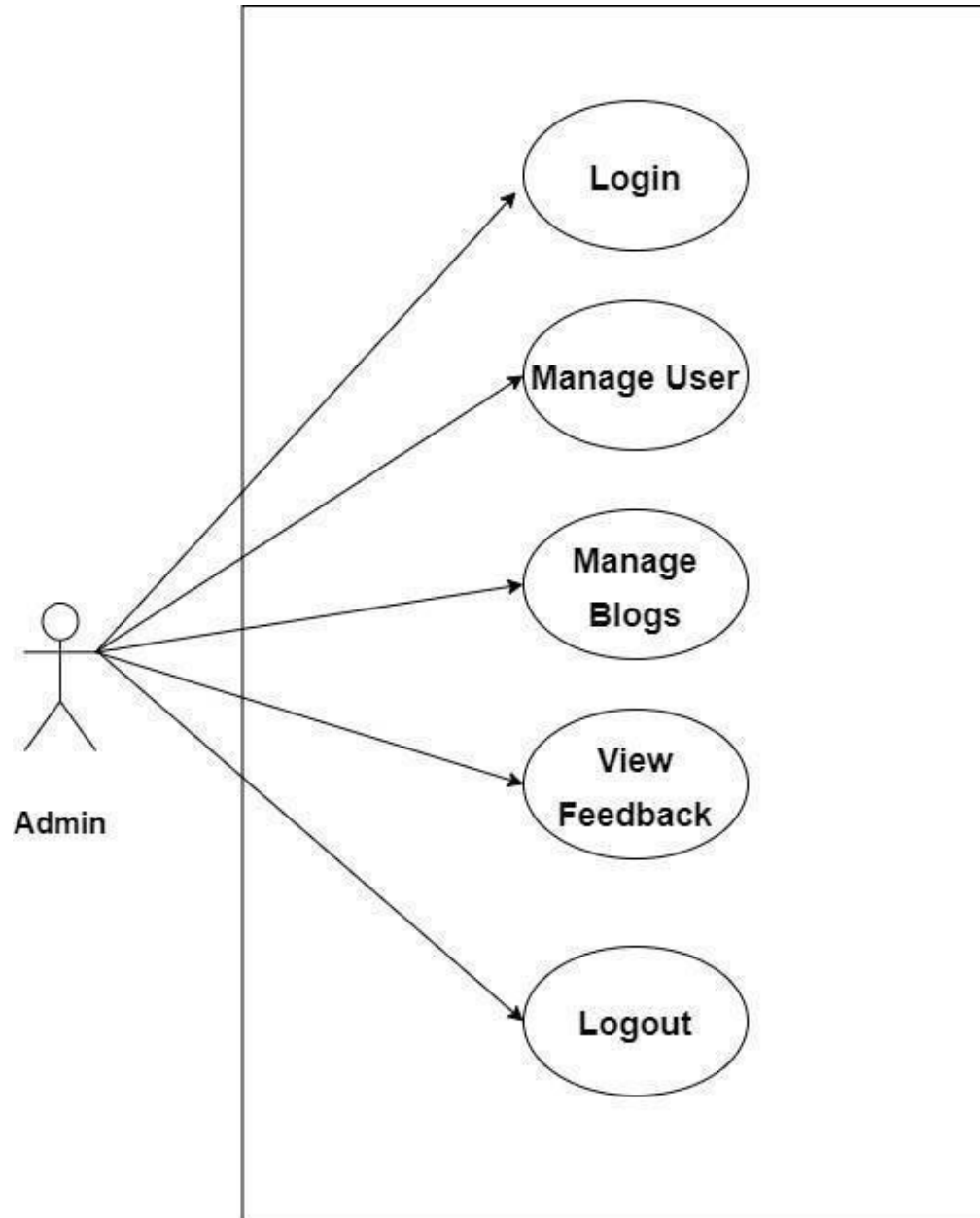
Admin can Manage User, Manage Blogs, View Feedback.

User:-

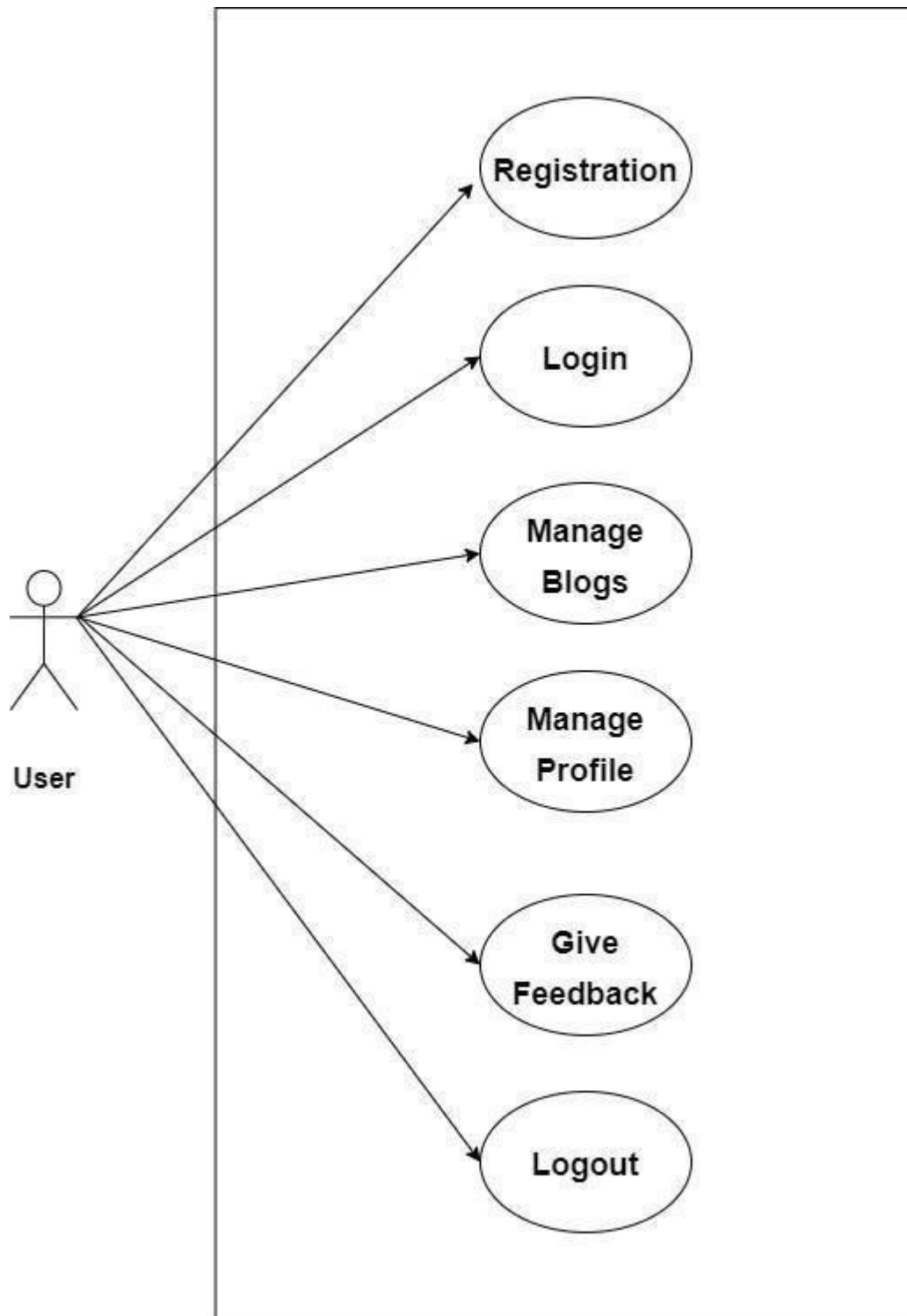
User Can Register (Create Account) After Validation Login.

3. System Design

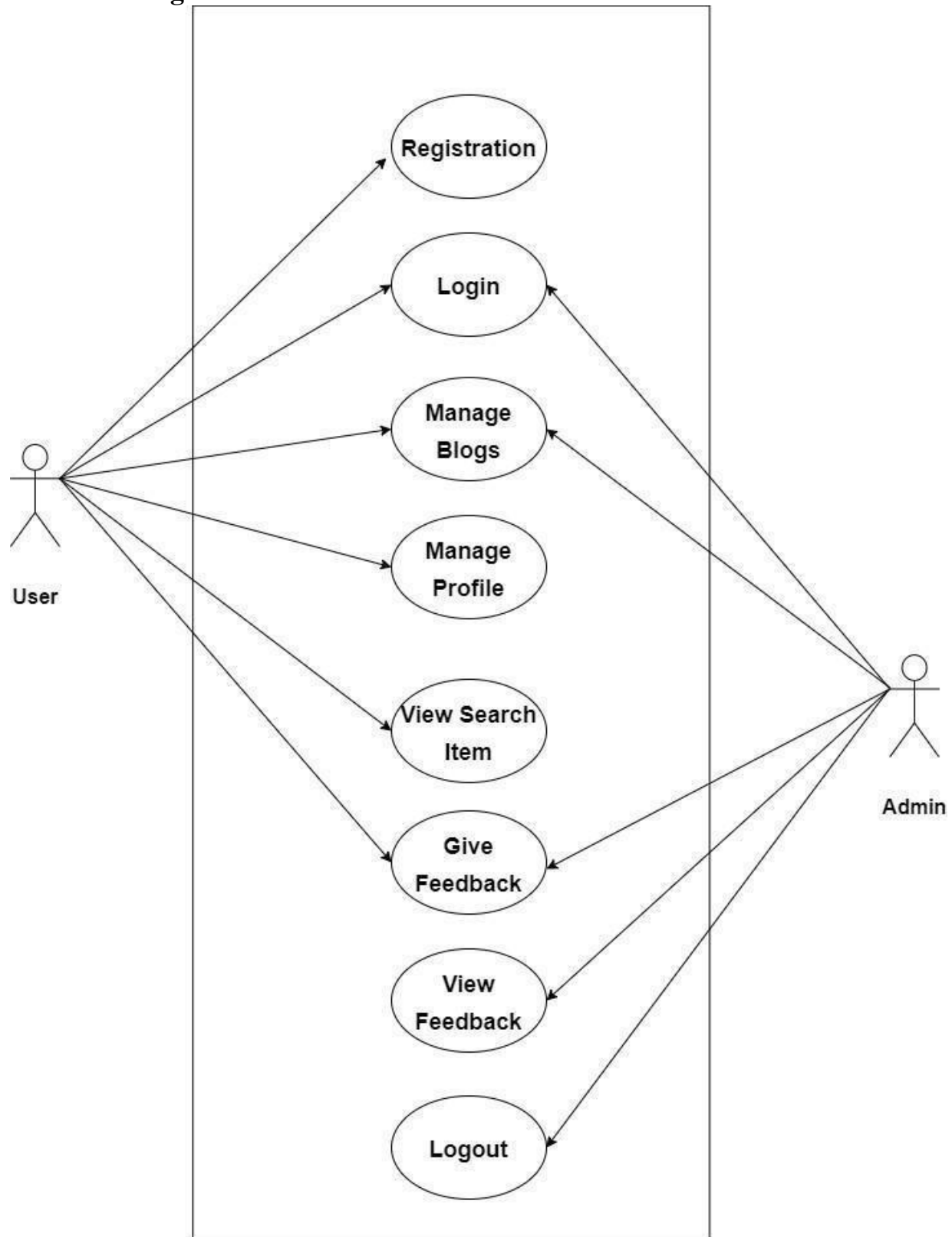
3.1 Use Case Diagram :- ADMIN



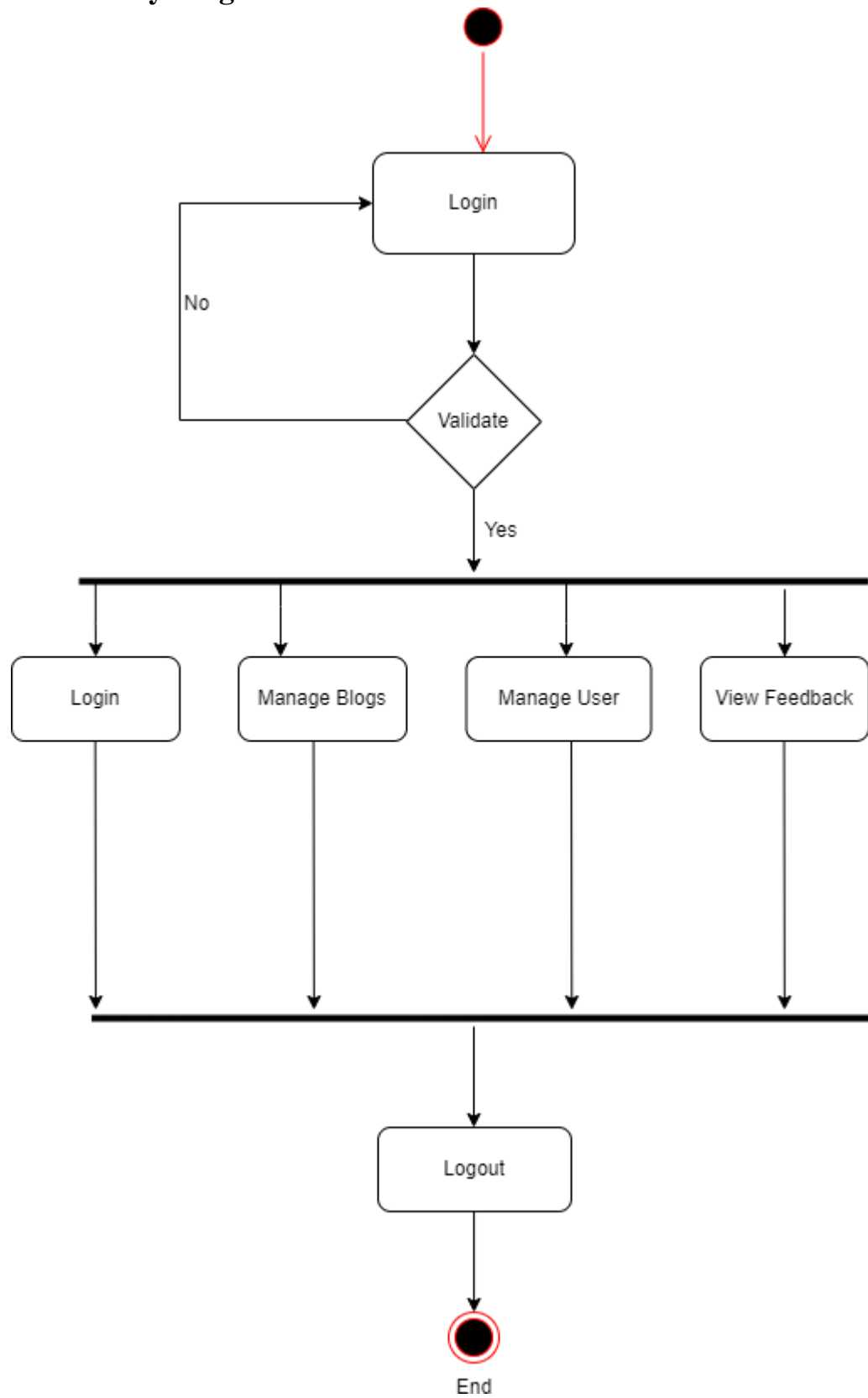
Use Case Diagram :- USER



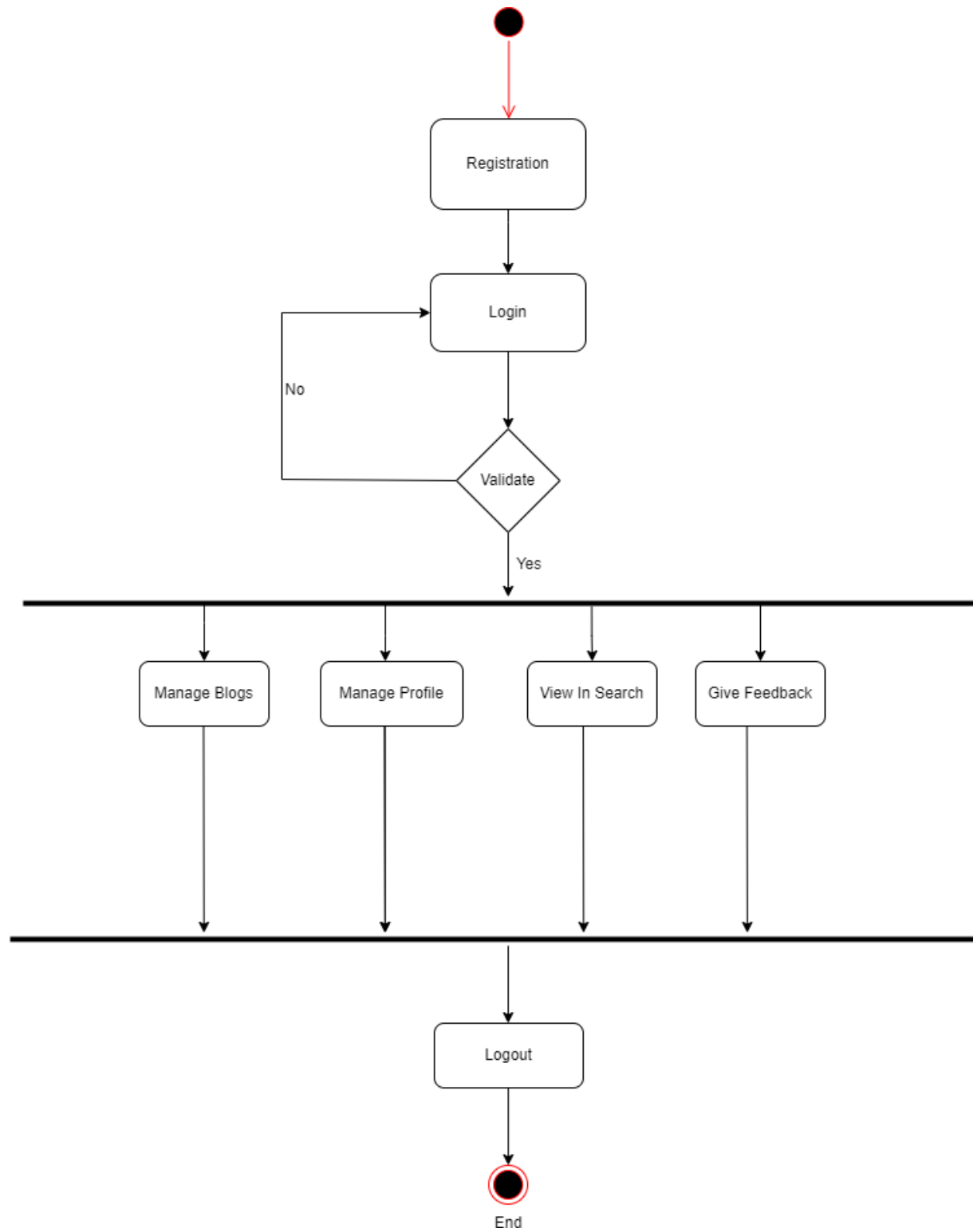
Use Case Diagram :- SYSTEM



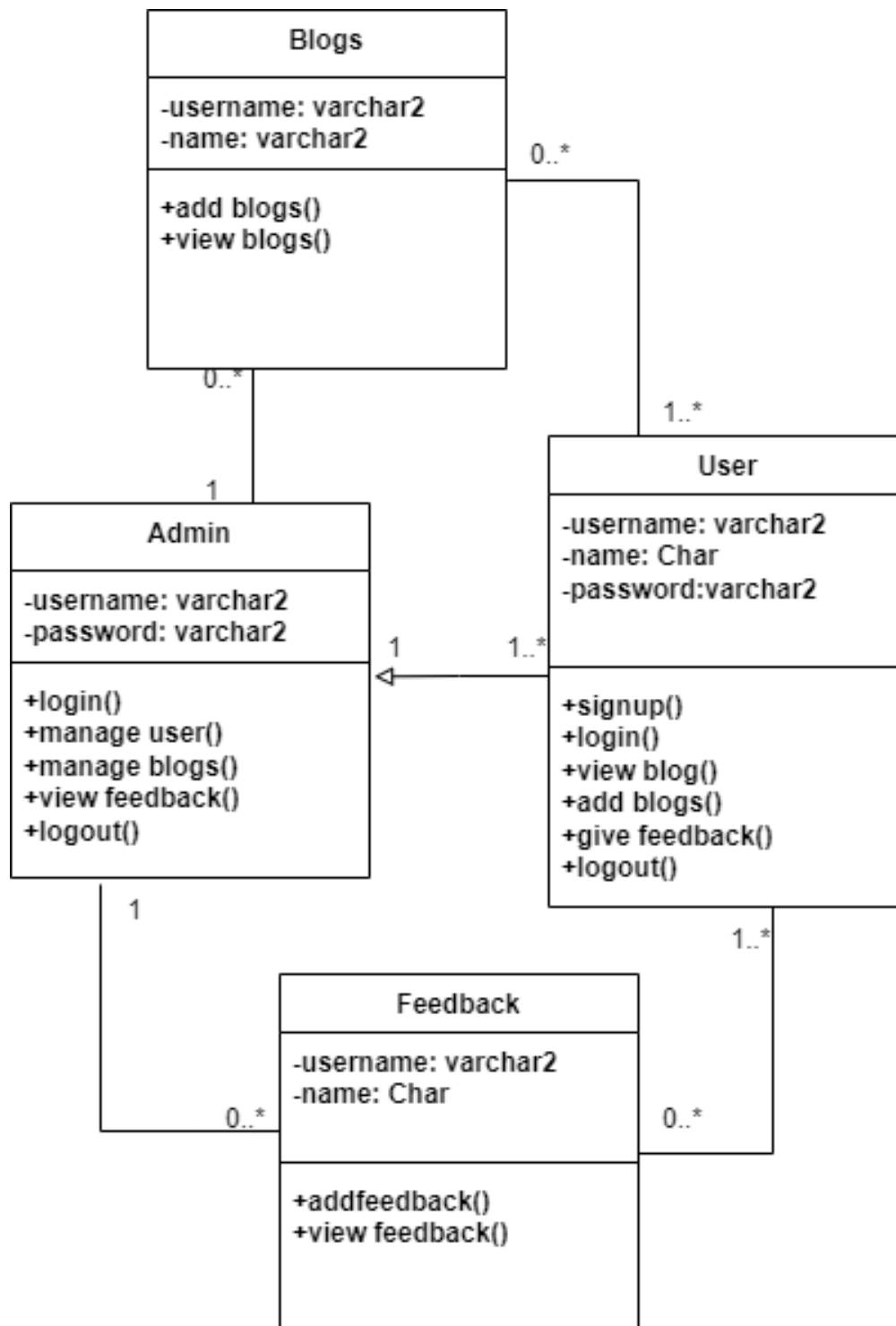
3.2 Activity Diagram :- ADMIN



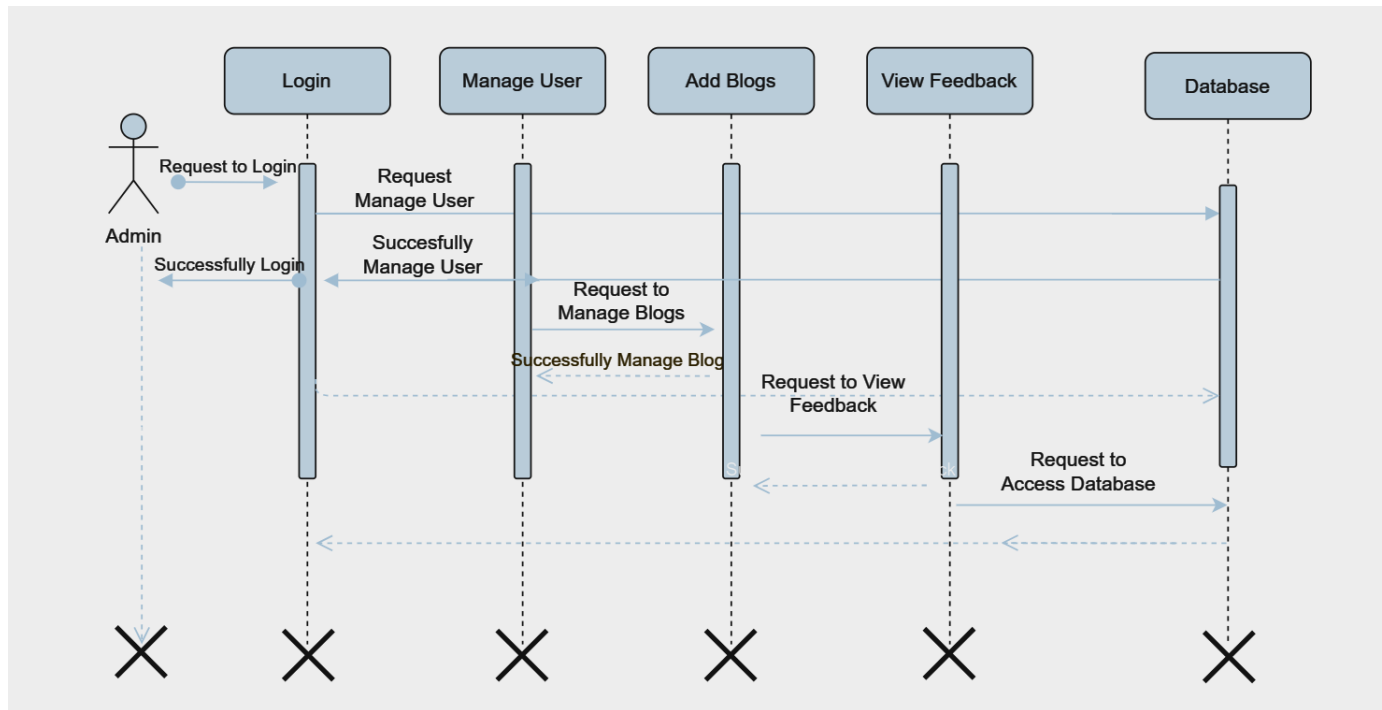
Activity Diagram :- USER



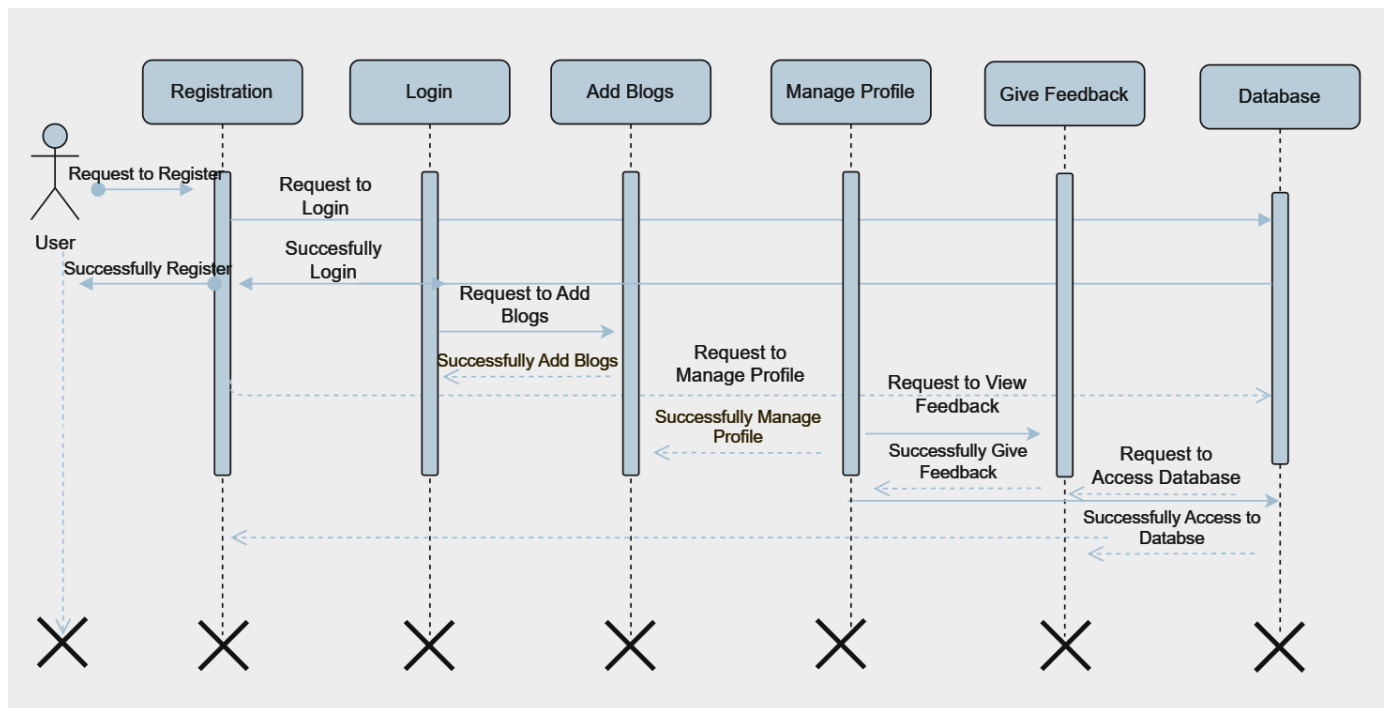
3.3 Class Diagram



3.4 Sequene Diagram: Admin



Sequence Diagram: User



3.5 Data Dictionary

- 1) Registration
- 2) Add Blog
- 3) Admin
- 4) Feedback

1) Registration

Field Name	Data Type	Size	Constraints	Description
UserId	NUMERIC	10	Primary Key	Unique identifier for user
UserName	VARCHAR	15	Not Null	Chosen identifier for user login
Password	VARCHAR	10	Not Null	Encrypted key for user authentication
Email	VARCHAR	15	Not Null	User's email address for communication and notification

2)Add Blog

Field Name	Data Type	Size	Constraints	Description
Blog ID	INT	12	Primary Key	Unique identifier for each blog post
Author ID	INT	15	Primary Key	Unique identifier for each author
Title	VARCHAR	15	Not Null	Title of the blog post
User Id	INT	25	Foreign Key	Unique identifier for each user
Content	TEXT	25	Not Null	Textual content of the blog post

3) Admin

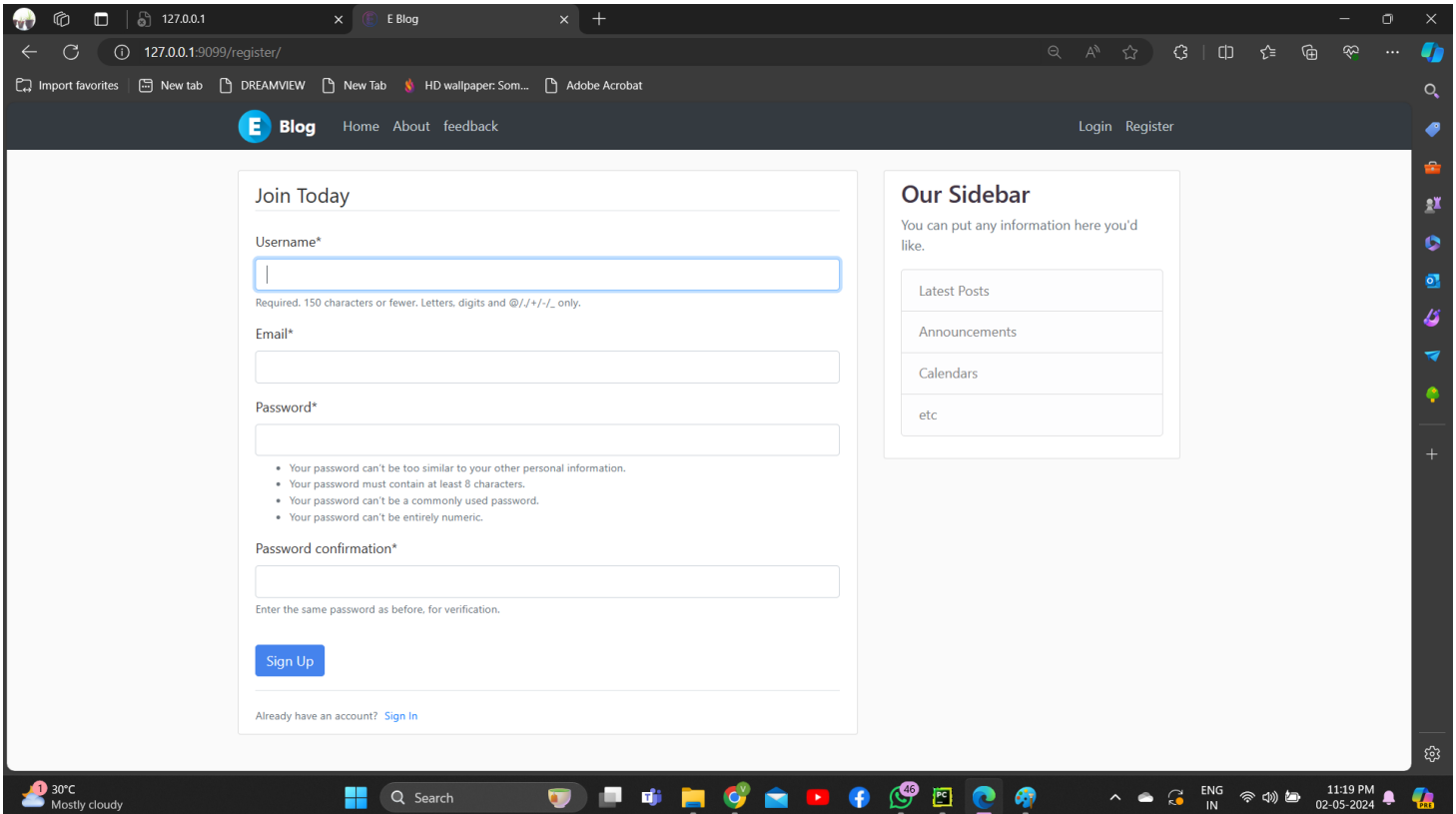
Field Name	Data Type	Size	Constraints	Description
User_id	INT	10	Foreign Key	Unique identifier for each user
UserName	VARCHAR	12	Not Null	Username chosen by the user
Email	VARCHAR	20	Not Null	Email address of the user
Password	VARCHAR	15	Not Null	Hashed password for user authentication

4) Feedback

Field Name	Data Type	Size	Constraints	Description
Feedback ID	INT	20	Primary Key	Unique identifier for each feedback entry
UserID	INT	25	Foreign Key	Identifier linking feedback to the user providing it
PostID	INT	25	Foreign Key	Identifier linking feedback to the corresponding blog post
Content	TEXT	30	Not Null	Textual content of the feedback provided by the user

4.0 ScreenShots:-

Registration Page:-



The screenshot displays the registration page of a web application titled "E Blog". The browser's address bar shows the URL "127.0.0.1:9099/register/". The page features a dark navigation bar with the "E Blog" logo, links for "Home", "About", and "feedback", and buttons for "Login" and "Register".

The main content area is divided into two sections:

- Join Today:** This section contains a registration form with the following fields:
 - Username*:** A text input field with a blue border. Below it, a note states: "Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only."
 - Email*:** A text input field.
 - Password*:** A text input field. Below it, a list of password requirements is provided:
 - Your password can't be too similar to your other personal information.
 - Your password must contain at least 8 characters.
 - Your password can't be a commonly used password.
 - Your password can't be entirely numeric.
 - Password confirmation*:** A text input field. Below it, a note states: "Enter the same password as before, for verification."A blue "Sign Up" button is located below the password confirmation field. At the bottom of the form, a link says "Already have an account? [Sign In](#)".
- Our Sidebar:** This section is titled "Our Sidebar" and includes the text "You can put any information here you'd like." Below this text is a list of links: "Latest Posts", "Announcements", "Calendars", and "etc".

The Windows taskbar at the bottom shows the system clock as 11:19 PM on 02-05-2024, along with various application icons and system status indicators.

Login Page:-

The screenshot displays a web browser window with the address bar showing '127.0.0.1:3099/login/'. The browser's tab bar has two tabs: '127.0.0.1' and 'E Blog'. The browser's address bar shows '127.0.0.1:3099/login/'. The browser's toolbar includes buttons for 'Import favorites', 'New tab', 'DREAMVIEW', 'New Tab', 'HD wallpaper: Som...', and 'Adobe Acrobat'. The browser's status bar shows '30°C Mostly cloudy', 'Search', and various system icons.

The web page has a dark blue header with the 'E Blog' logo and navigation links: 'Home', 'About', 'feedback', 'Login', and 'Register'. The main content area is white and contains a 'Log In' form and a 'Our Sidebar' section.

Log In

Username*

Password*

[Login](#) [Forgot Password?](#)

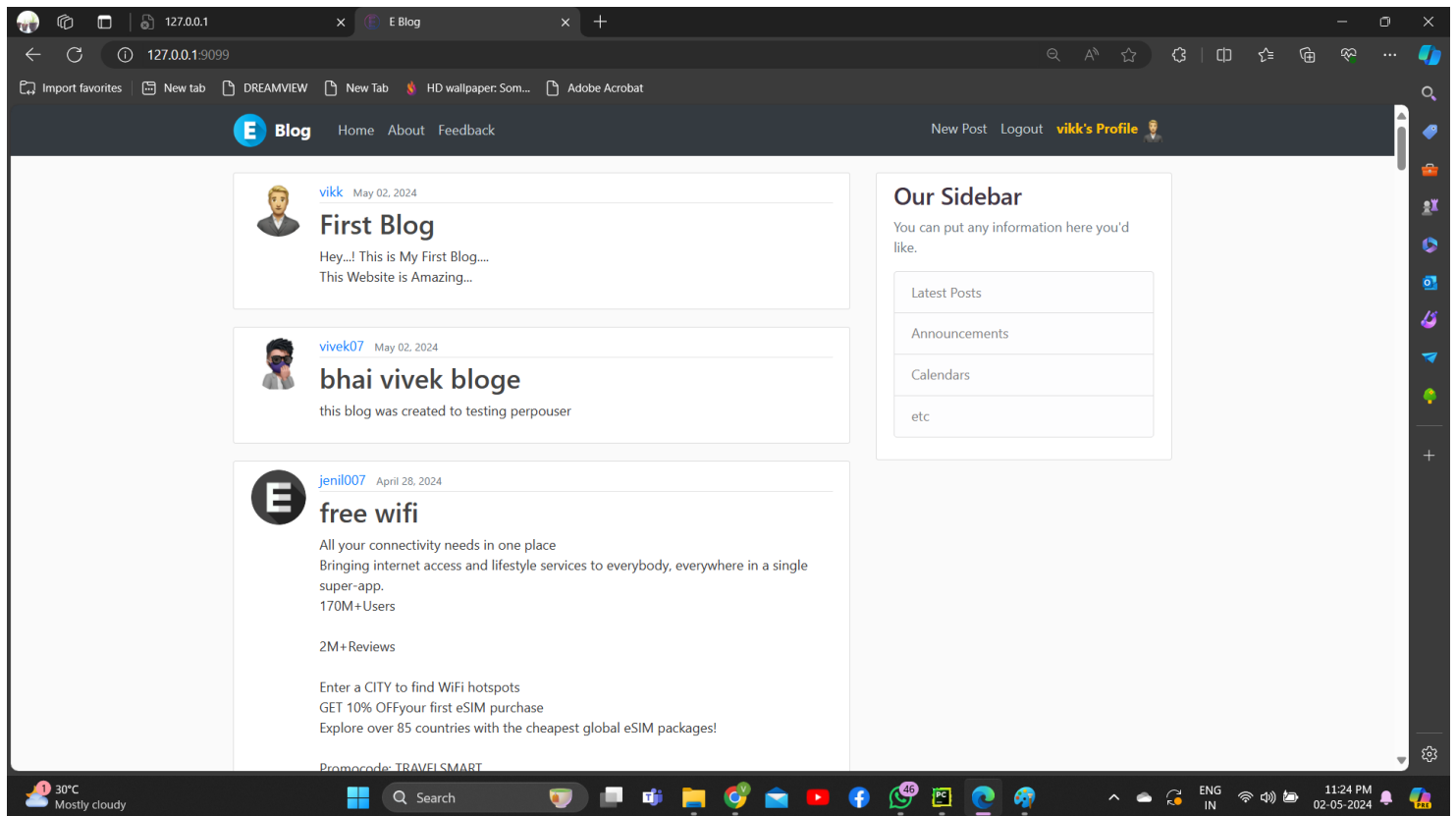
Need an account? [Sign Up Now!](#)

Our Sidebar

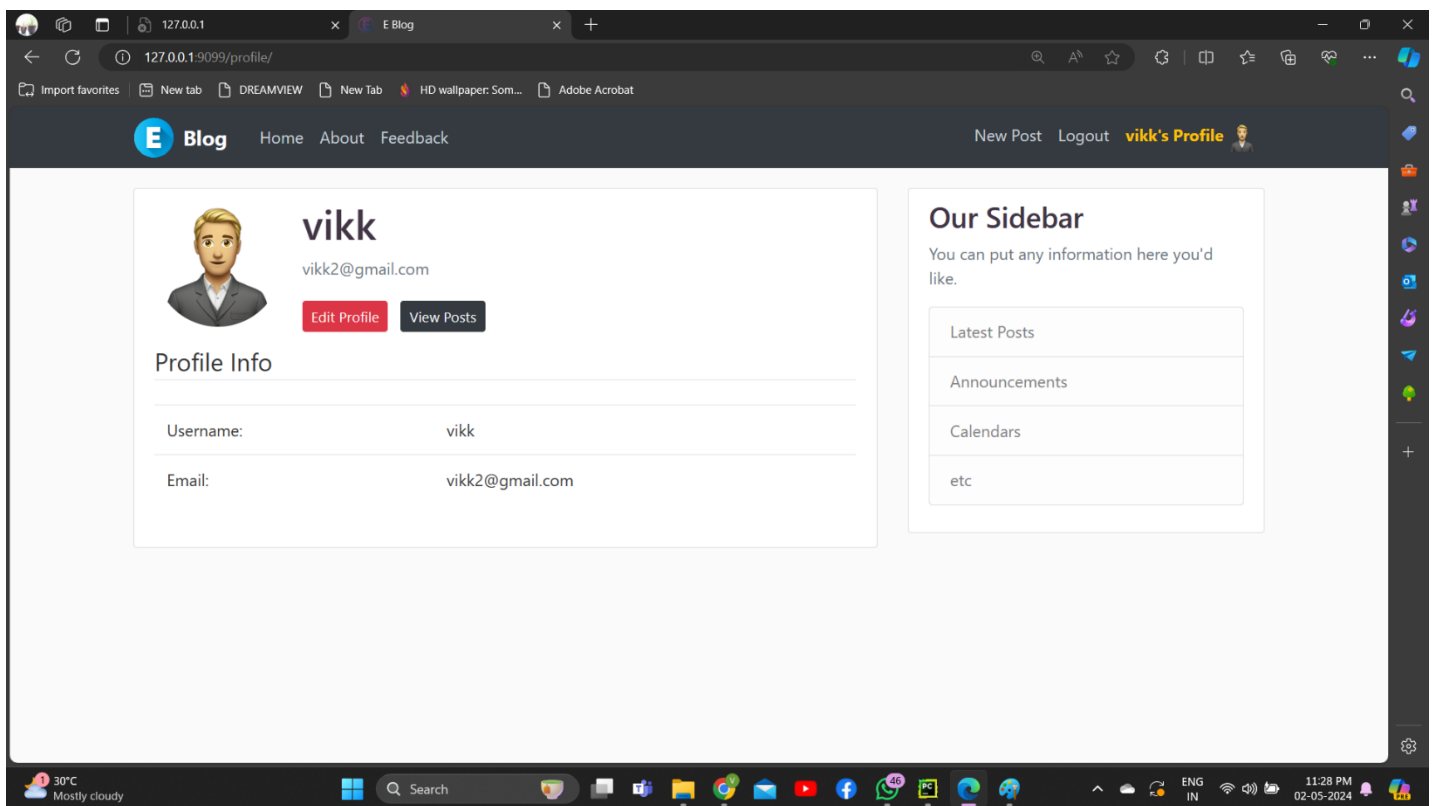
You can put any information here you'd like.

- Latest Posts
- Announcements
- Calendars
- etc

Home Page:-



Personal Profile:-



Edit Profile:-

127.0.0.1


E Blog

127.0.0.1:9099/edit_profile/

Import favorites New tab DREAMVIEW New Tab HD wallpaper: Som... Adobe Acrobat

E Blog Home About Feedback

New Post Logout vikk's Profile

 **vikk**
vikk2@gmail.com

Profile Info

Username*

vikk

Required: 150 characters or fewer. Letters, digits and @/./+/-/_ only.

Email*

vikk2@gmail.com

Image: Currently: [profile_pics/valNsy2lmk-no-background.png](#)

Change: No file chosen

Our Sidebar

You can put any information here you'd like.

Latest Posts

Announcements

Calendars

etc

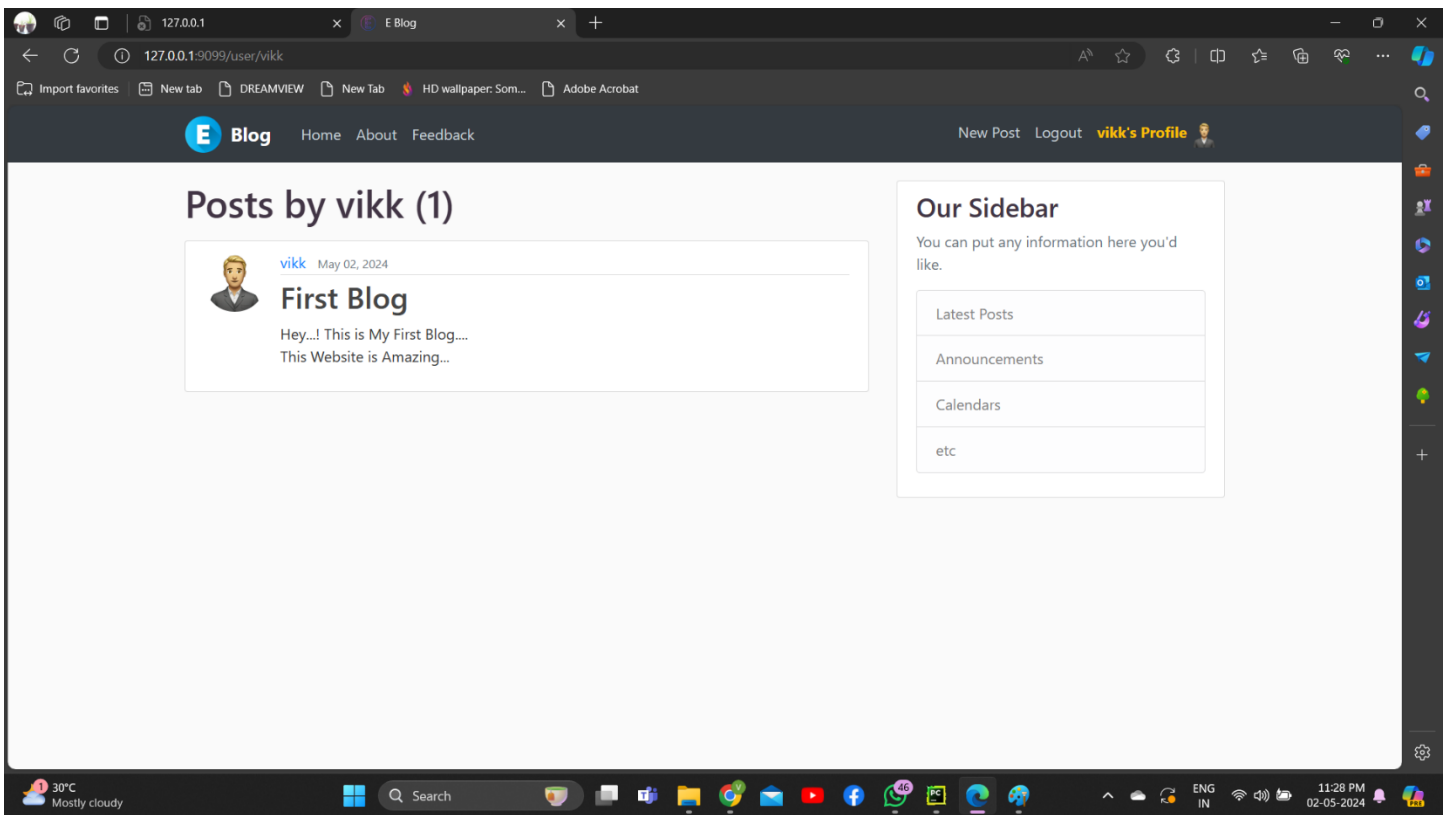
30°C Mostly cloudy

Search

ENG IN

11:28 PM 02-05-2024

Posted Blogs:-



Blog post:-

127.0.0.1

E Blog

127.0.0.1:3099/post/new/

Import favorites New tab DREAMVIEW New Tab HD wallpaper: Som... Adobe Acrobat

E Blog Home About Feedback New Post Logout vikk's Profile

Blog Post

Title*

Content*

Post Discard

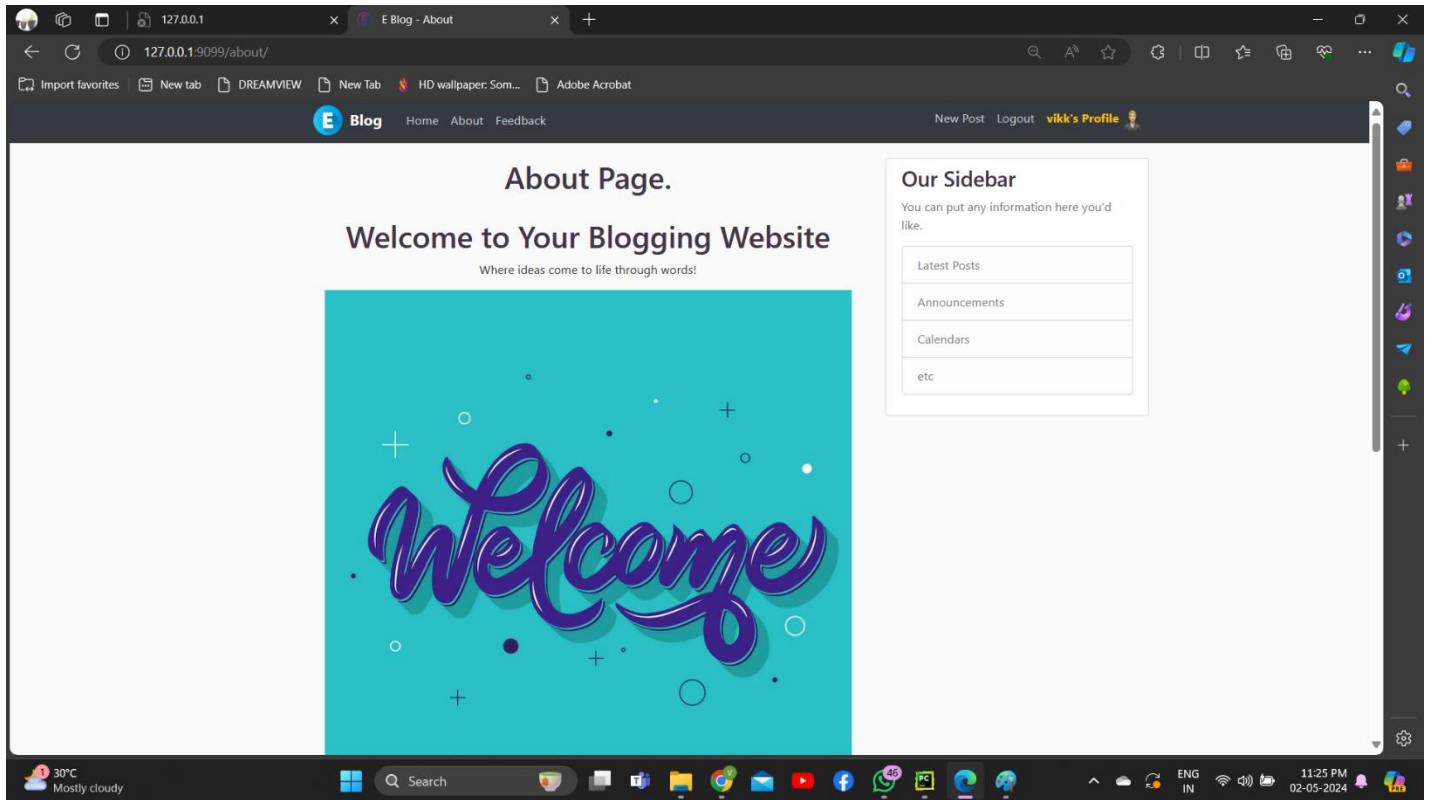
Our Sidebar

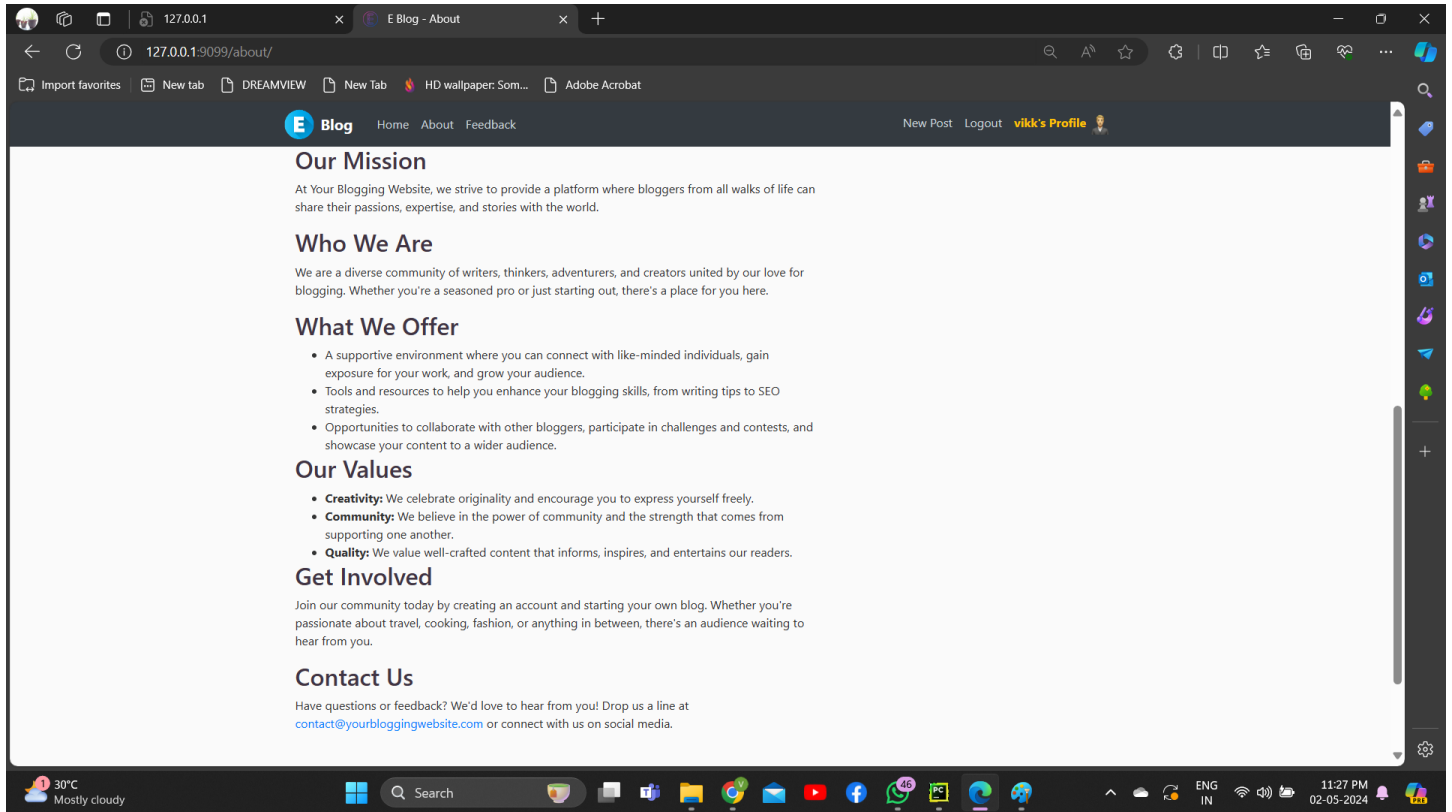
You can put any information here you'd like.

- Latest Posts
- Announcements
- Calendars
- etc

30°C Mostly cloudy Search 11:29 PM 02-05-2024

About Us:-





Feedback:-

The screenshot shows a web browser window with the address bar displaying "127.0.0.1:9099/feedback/". The browser tabs include "127.0.0.1", "E Blog - feedback", and "+". The page header features a navigation bar with a logo "E Blog" and links for "Home", "About", and "Feedback". On the right side of the header, there are links for "New Post", "Logout", and a user profile "vikk's Profile" with a small avatar icon.

The main content area is titled "Feedback Form". It contains three input fields: "Name:", "Email:", and "Feedback:". Below these fields is a blue "Submit" button. To the right of the form is a sidebar titled "Our Sidebar" with the text "You can put any information here you'd like." Below this text are four buttons: "Latest Posts", "Announcements", "Calendars", and "etc".

The Windows taskbar at the bottom shows the system clock as 11:27 PM on 02-05-2024, along with various system icons and application shortcuts.

5.0 Agile Documentation:-

5.1 Agile Project Charter:-

The eBlog project is a software development initiative aimed at creating a web-based platform for creating and managing electronic weblogs or blogs.

Scope:-

This e-Blog Project is very simple project.
Later on its Scale will be Upgrade to More functionalities.

Primary Object:-

- To Provide Personal Platform to Every User.
- Very Simple And Understandable Interface.
- Easy to Use

Target Project Completion Date:-

The Project Completion Date will be Around

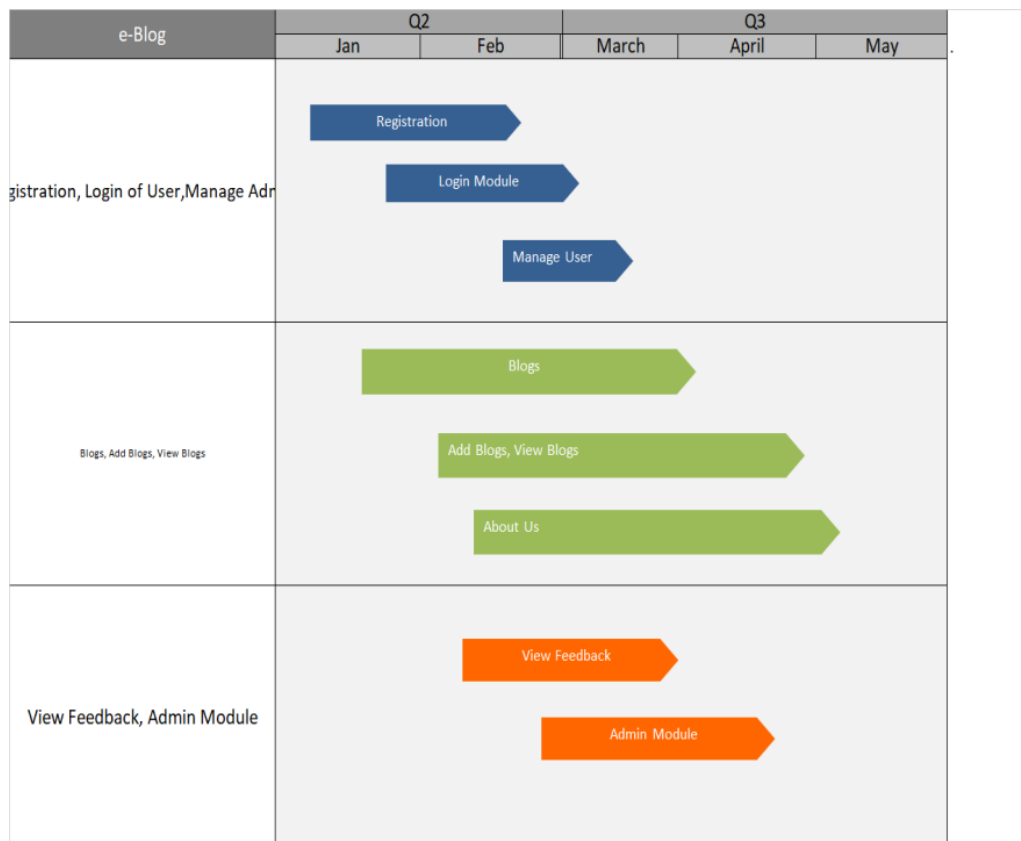
Approval Signature/ Date of Approval:-

(Project Cutomer)

(Sponser)

(Project Manager)

5.2 Agile Roadmap



5.3 Agile User Story

No	TYPE OF USER	I WANT TO PERFORM	RESULT
1	User	Registration	I can become a customer.
2	User	Login	I can access the system.
3	User	View Blogs	I can view Blogs.
4	User	Manage User	I can manage User.
5	User	About Us	I Can View About Us Page
6	User	Give Feedback	I can Give Feedback.
7	Admin	View Feedback	I Can View Feedback.
8	Admin	Manage User	I can manage User.
9	Admin	Manage Blogs	I can manage Blogs.

5.4 Agile Release Plan

Sprint	Task	Start	End	Duration	Status	Release Date
User Registration, Login and Admin Activity	Registration	22-02-2024	25-02-2024	4	Released	25-02-2024
	Login	26-02-2024	29-02-2024	4	Released	29-02-2024
	Manage Blogs, User (Admin)	01-03-2024	10-03-2024	10	Released	10-03-2024
Add Blogs	Add Blogs	11-03-2024	19-03-2024	9	Released	19-03-2024
	Edit Blogs	20-03-2024	25-03-2024	5	Released	25-03-2024
	View Blog	26-03-2024	29-03-2024	3	Released	29-03-2024
Admin Module Feed back	User Profile	30-03-2024	02-04-2024	3	Released	02-04-2024
	Admin	03-04-2023	04-04-2024	1	Released	04-04-2024
	Feedback	05-04-2024	07-04-2024	3	Released	07-04-2024

5.5 Agile Sprint Backlog

Task Name	Responsible	Story	Sprint Ready	Days	Priority	Status
Registration	Vivek Zala Ankita Bhuva	Yes	Yes	5	Low	Complete
Login	Vivek Zala Ankita Bhuva Yashvi Patel	Yes	Yes	5	Low	Complete
Add Blogs	Vivek Zala Ankita Bhuva	Yes	Yes	2	High	Complete
Manage Profile	Vivek Zala Ankita Bhuva	Yes	Yes	2	High	Complete
Manage User	Vivek Zala Ankita Bhuva	Yes	Yes	1	High	Complete
Give Feedback	Vivek Zala Ankita Bhuva Yashvi Patel	Yes	Yes	2	Medium	Complete
View Feedback	Ankita Bhuva Yashvi Patel	Yes	Yes	8	Medium	Complete
Manage Blogs	Vivek Zala Ankita Bhuva Yashvi Patel	Yes	Yes	2	High	Complete
Manage Admin	Vivek Zala	Yes	Yes	2	High	Complete

5.6 Agile Test Plan

Project Name	e-Blog	Browser:	Google Chrome
Test Case ID	1	Version:	1
Written By:	Vivek Zala Arzoo Bhuva	Description:	It is e-Blog; Which Provide You a Personal Platform to Post a Bogs.
Tested By:	Yashvi Patel	Tested On:	19-03-2024

Test No	Date	Action	Expected Results	Actual Results	Pass?
1	01-02-2024	Registration of User	Should go to Login Screen	User will get the Login	<input checked="" type="checkbox"/>
2	01-02-2024	User Logging in	Should go to the Home Screen	User get the Home Screen	<input checked="" type="checkbox"/>
3	05-02-2024	Add Blogs	User will Add Blog from Their Perosnal Profile	User can Add Blogs	<input checked="" type="checkbox"/>
4	10-02-2024	View/Edit Blogs	User can View and Edit Their Blogs	User will View and Edit Blogs	<input checked="" type="checkbox"/>
5	18-02-2024	Manage Users	Admin can manage users	Admin will manage users	<input checked="" type="checkbox"/>
7	01-03-2024	Give /View Feedback	User can give Feedback and admin can View Feedback	User will give Feedback and admin will View Feedback	<input checked="" type="checkbox"/>
8	07-03-2024	Admin Login	Take him/her to Dashboard Screen	Admin get the Dashboard Screen	<input checked="" type="checkbox"/>

5.7 Agile Project plan:-

Project Name	e-Blog Management
Project Manager	Prof. Ankita Gandhi
Project Deliverable	Yes
Start Date	01-Feb-24
End Date	06-Apr-24
Overall Progress	100%



Proposed Enhancement:-

- **We'll Add Profile Based Module**
- **We'll Add Category Section**
- **We'll Add More Interacting Features Like Make Friends, Collaboration/Sponsored Blogs Posts.**
- **We'll Add Premium Member Logo**

Bibliography:-

<https://www.drawio.com/>

<https://github.com/>

<https://www.w3schools.com/>