

***A Mini Project Synopsis on***

# **Blog Application**

**S.E. - I.T Engineering**

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# CERTIFICATE

This is to certify that the Mini Project report on Blog Application has been submitted by **Riya Sawant (20104078), Srusti Patil (20104066), Tanishq Sahane (20104072) and Ritvik Shetty (20104067)** who are Bonafede students of AP Shah Institute of Technology, Thane, Mumbai, as partial fulfilment of the requirement for the degree in Information Technology, during the academic year 2021-2022 in a satisfactory manner as per the curriculum laid down by University of Mumbai.

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# Chapter 1

## Introduction

A blog is a type of website that is updated regularly with new content. Most blogs contain short, informal articles called blog posts. These posts usually contain some combination of text, photos, videos, and other media. At its core, a blog is just a space on the Web that you can create to record and express your opinions, experiences, and interests. If you spend much time browsing the Web, you've probably read a blog post before, even if you didn't realize it at the time. Some of the most-read blogs are a bit like online magazines because they're written by a team of people who are paid to update the blog with new posts several times a day.

However, a majority of blogs are written by one person. As a result, the average blog is fairly personal, reflecting the interests and personality of the person who writes it. Blogging has become such a mania that a new blog is being created every second of every minute of every hour of every day. A blog is your best bet for a voice among the online crowd. Blogs were usually the work of a single individual occasionally of a small group, and often covered a single subject. More recently, "multi-author blogs" have developed, with posts written by large numbers of authors and professionally edited. MABs from newspapers, other media outlets, universities, think tanks, advocacy groups and similar institutions account for an increasing quantity of blog traffic.

The rise of Twitter and other "microblogging" systems helps integrated MABs and single-author blogs into societal new streams. Blogs can also be used as a verb meaning to maintain or add content to a blog. A novel is a long, fictional narrative which describes intimate human experiences. Blogs contain the Information of various things related to Technology, Education, News, International, Business, Sports, Entertainment and ongoing college activities. The main aim of this project is to provide data to students in only one application. Students can gather the information from one site and create their own blog. Students can also like and dislike and thought and analyze themselves.

## **1.1 Purpose:**

The purpose of Blog Management Application is to manage the blogs. The purpose of a blog is to provide content on your website that answers your prospective customers' questions and helps them learn about your product or service. A blog keeps content fresh and gives you continual opportunities to write article surrounding key search terms. The required software and hardware are easily available and easy to work. Blog Management Application, can lead to error free, secure and reliable application.

Blog gives others content user can link to in their content. This means greater exposure to a relevant audience and a boost in your search engine rankings. Blog content gives your company new information to share on social media and in email marketing, which in turn can be shared with a broader audience, creating a ripple effect. The aim is to automate its existing manual system by the help of computerized equipment's and full-fledged computer software, fulfilling their requirements. Basically, the project describes how to manage for good performance and better services for the customer.

In recent past time Blogs are store in the paper files and difficult to search or modify any information, for expanding the blogs infrastructure. Awareness of environmental issues or any other issues related to education, heath, digital technology, and search for greater safety give to information to all age groups. In recent past time Blogs are store in the paper files and difficult to search or modify any information, for expanding the blogs infrastructure. Awareness of environmental issues or any other issues related to education, heath, digital technology, and search for greater safety give to information to all age groups and a new role within the educational system. we choose this project. As a result of these project initiates phenomenal growth has taken place in all the activities of blogs and any user can share its information related to any topic to all users.

## **1.2 Objectives:**

- The main Objective of this project is to share thoughts, ideas, points of view with bloggers around the world.
- To manage all types of blogs like food, travel, sports, fashion, etc.
- The main purpose of a blog is to connect you to the relevant audience. Another one is to boost your traffic and send quality leads to your website.
- To express ideas or concepts in an open, unrestricted web space.
- To develop a user-friendly portal that can be accessible anytime and anywhere.

## **1.3 Scope:**

As you know that the number of blogs are becoming larger day by day, So the blogs which have high quality content survive and the blogs with lower content quality will not succeed on the internet.

The main page of website gives you latest information about the website content. Most authors write on weekly basis and you can see the article of any blogger by clicking on author name. The scope of blogging is bright as more and more users are getting access to the internet and computers. In all type of offices, the computer is a necessary part so visitors browse the internet to have solution of their problems. The bloggers have to keep eye in the future and have to write in some different way that is not common to other blogs. People always looking for new techniques and words. Give your visitors a new way of reading and not boring content.

The future is for digital marketing only and hence there will be good scope for blogging and web marketing. The people who want to become an entrepreneur but resources are a problem for starting a company, can start with blogging. Blogging is not only for writing but it is a business by itself. It involves a good understanding of the topic you have selected, digital marketing, and sales. This will give you an understanding of content marketing You can use your writing skills and become a good entrepreneur based on your content marketing skills. Many people are successful and sustaining completely based on the blogging business.

## **Chapter 2**

### **Problem Statement:**

Blogging provides anyone with the opportunity to publish content and the potential to make money. Because of this, there are hundreds or thousands of new blogs launched every day. Unfortunately, there are some significant challenges that most new bloggers face, and in many cases the challenges are significant enough to lead the blogger to give up.

It can be very frustrating to dedicate time creating a blog post, only to sit and wait for comments that never come. The interactive aspect of blogging is what draws many people to get started with their own blog, but in reality, many new blogs have trouble attracting comments. Possibly the most frustrating challenge for many bloggers is trying to attract more visitors. In fact, most bloggers don't give very much thought to how they will attract visitors until after the blog has been launched and they find that not many people are visiting. While getting traffic is certainly a concern for many bloggers, repeat traffic really is what is most important to a blog's long-term success. In order for a blog to achieve and maintain a high level of success, it must be able to build a community. If you're not blogging for personal reasons, you most likely want to make money from your blog either directly or indirectly. Although the potential to make money blogging is rather high, in reality only a small percentage of bloggers ever achieve their income goals.

### **Goals:**

1. Provides the Trending Blogs.
2. Can create a new Blogs for Free.
3. Not promoting religious Context / Maybe banned if seen.
4. Manage their own profile.



## Chapter 3

### **Proposed System:**

The aim of proposed system is to develop a system of improved facilities. The proposed system can overcome all the limitations of the existing system. The system provides proper security and reduces the manual work. The following are the things which we have included in our system:

- Security of data.
- Ensure data accuracies.
- Proper control of the higher officials.
- Minimize manual data entry.
- Minimum time needed for the various processing.
- Greater efficiency.
- Better service.
- User friendliness and interactive.
- Minimum Time Required.

### **3.1 Features & Functionality:**

#### **1. User Friendly and Easy to Manage:**

- Simple and interactive user interface.
- All important information displayed at one place i.e., Dashboard

#### **2. Freedom:**

- User can create blog of any category.

#### **3. Good experience:**

- Can also get a look of trending blogs available.

#### **4. Restrictions:**

- If the user uses any forbidden words while creating blog, it will show an error and will ask the user to remove that word from the blog.

#### **5. Users choice:**

- Users can too like and dislike blogs according to their choice.

#### **6. Precise Idea:**

- Users can read blogs of different categories as per the choice.

## Chapter 4

### Project Outcome:

The main outcome of the project is to save time and resources simultaneously. The main motive of the project is that users get an efficient working space. With different types of blogs available with varieties, users can read blogs and like and dislike the blogs. Users are too restricted to use words from political or religious fields.

1. User can Login in his/her account.
2. User can create blogs and read blogs.
3. There is an admin login where we can delete users and add blogs.
4. User too has an option to save their favourites blog in my favourites page.
5. This too helps users to expand their knowledge on various topics and helps in improving the vocabulary by reading different blogs.
6. Users can to share their ideas by creating blogs of any topic according to their choice.

## Chapter 5

### Software Requirement:

#### Technology Used:

- **Front-end:** PyQT5
- **Back-end:** phpMyAdmin-MySQL
- **Integrated Development Environment (IDE):** VS code
- **Platform:** Windows 11

### 5.1 phpMyAdmin:

phpMyAdmin is an open-source software tool introduced on September 9, 1998, which is written in PHP. Basically, it is a third-party tool to manage the tables and data inside the database. phpMyAdmin supports various type of operations on MariaDB and MySQL. The main purpose of phpMyAdmin is to handle the administration of MySQL over the web.

It is the most popular application for MySQL database management. We can create, update, drop, alter, delete, import, and export MySQL database tables by using this software. phpMyAdmin also supports a wide range of operation like managing databases, relations, tables, columns, indexes, permissions, and users, etc., on MySQL and MariaDB. These operations can be performed via user interface, while we still have the ability to execute any SQL statement.

#### Features of phpMyAdmin:

- phpMyAdmin can create, alter, browse, and drop databases, views, tables, columns, and indexes.
- It can display multiple results sets through queries and stored procedures.
- phpMyAdmin use stored procedure and queries to display multiple results sets.
- It supports foreign keys and Inorb tables.
- phpMyAdmin can track the changes done on databases, views, and tables.
- We can also create PDF graphics of our database layout.
- phpMyAdmin can be exported into various formats such as XML, CSV, PDF, ISO/IEC 26300 - OpenDocument Text and Spreadsheet.
- It supports MySQL, which is the improved MySQL extension.
- phpMyAdmin can interact with 80 different languages.
- phpMyAdmin can edit, execute, and bookmark any SQL-statements and even batch-queries.

## 5.2 Vs Code:

Visual Studio Code is a streamlined code editor with support for development operations like debugging, task running, and version control. It aims to provide just the tools a developer needs for a quick code-build-debug cycle and leaves more complex workflows to fuller featured IDEs, such as Visual Studio IDE.

**Programming languages used:** Python

### Features of Vs code:

- Intelligent Code Editor. ...
- Availability of Integration Tools. ...
- Data Science and Machine Learning [Professional Edition Only] ...
- Google App Engine [Professional Edition Only] ...
- Integrated Debugging and Testing. ...
- Multi-technology Development [Professional Edition Only] ...
- Project and Code Navigation. ...
- Refactoring.

## 5.3 Python:

Python is a high-level, general-purpose programming language with an elegant syntax that allows programmers to focus more on problem-solving than on syntax errors. One of the primary goals of Python Developers is to keep it fun to use. Python has become a big buzz in the field of modern software development, infrastructure management, and especially in Data Science and Artificial Intelligence.

Python is a high-level, general-purpose programming language. Its design philosophy emphasizes code readability with the use of significant indentation. Its language constructs and object-oriented approach aim to help programmers write clear, logical code for small- and large-scale projects.

## **5.4 PyQt5 Designer:**

Qt Designer is a Qt tool that provides you with a what-you-see-is-what-you-get user interface to create GUIs for your PyQt applications productively and efficiently. With this tool, you create GUIs by dragging and dropping QWidget objects on an empty form. After that, you can arrange them into a coherent GUI using different layout managers.

Qt Designer also allows you to preview your GUIs using different styles and resolutions, connect signals and slots, create menus and toolbars, and more. PyQt5 is a set of Python bindings for Qt5 application framework from Digia. Qt library is one of the most powerful GUI libraries. The official home site for PyQt5 is [www.riverbankcomputing.co.uk/news](http://www.riverbankcomputing.co.uk/news). PyQt5 is developed by Riverbank Computing.

### **5.4.1 Python GUI Programming with PyQt5:**

- Getting Multiline User Input with Text Widgets.
- Assigning Widgets to Frames with Frame Widgets.
- Adjusting Frame Appearance with Reliefs.
- Displaying Text and Images with Label Widgets.
- Displaying Clickable Buttons with Button Widgets.
- Getting User Input with Entry Widgets.

## Chapter 6

### Project Design:

In this phase, a logical system is built which fulfils the given requirements. The design phase of software development deals with transforming the customer's requirements into a logically working system. Normally, design is performed in the following two steps:

#### 1. Primary Design Phase:

In this phase, the system is designed at the block level. The blocks are created based on analysis done in the problem identification phase. Different blocks are created for different functions emphasis is put on minimizing the information flow between blocks. Thus, all activities which require more interaction are kept in one block.

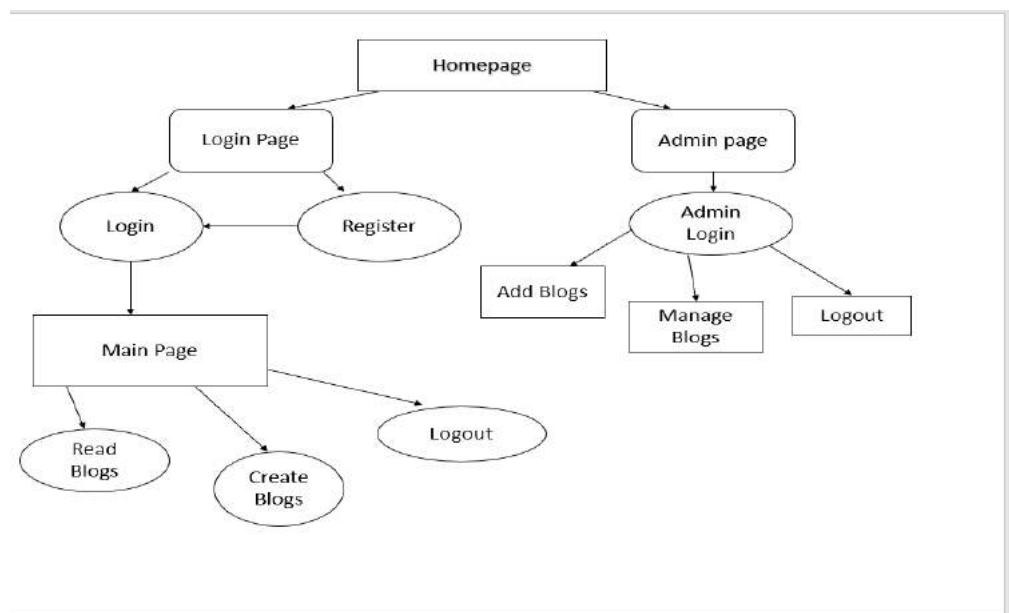


Figure 6.1: Flow Diagram.

Flow Diagram gives you a basic idea of the project. Starting with homepage, user can login through login page .For admin, admins can login through it and manage users, add blogs and then logout. Users can login and if not-login then register. Once login, user can read blogs, create blogs and then logout.

## **2. Secondary Design Phase:**

In the second phase, the detailed design of every block is performed.

**General tasks involved in the project design process are following:**

- Design various blocks for overall system processes.
- Design smaller, compact, and workable modules in each block.
- Design various database structures.
- Specify details of programs to achieve the desired functionality.
- Design the form of inputs and outputs of the system.
- Perform documentation of the design.
- System reviews.

### **6.1 User Interface Design:**

User Interface Design is concerned with the dialogue between a user and the computer. It is concerned with everything from starting the system or logging into the system to the eventual presentation of desired inputs and outputs. The overall flow of screens and messages is called a dialogue.

**The following steps are guidelines for User Interface Design:**

- The system user should always be aware of what to do next.
- The screen should be formatted so that various types of information, instructions, and messages always appear in the same general display area.
- Message, instructions, or information should be displayed long enough to allow the system user to read them.
- Use display attributes sparingly.
- Default values for fields and answers to be entered by the user should be specified.
- A user should not be allowed to proceed without correcting an error.
- The system user should never get an operating system message or fatal error.



**Home Page:** Users can login through clicking on user login, same goes with the admin.

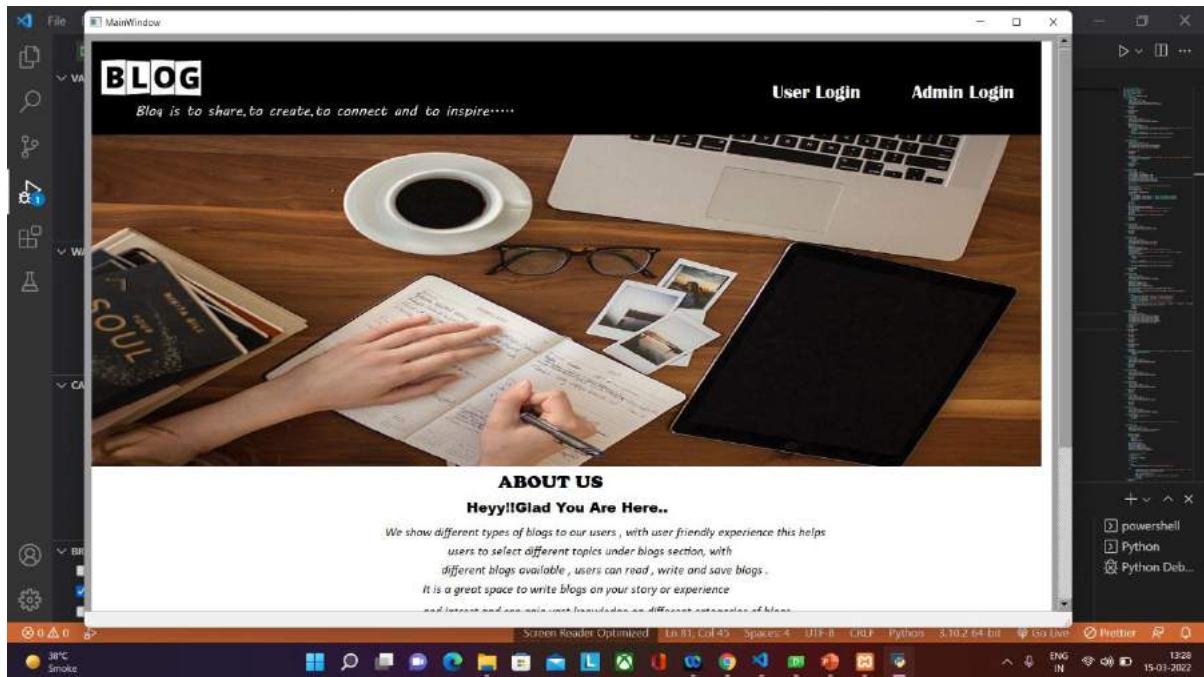


Figure 6.2: Main Page

**Admin Login:** Registered users and can log in through this page. The 'Login' button will take them to Dashboard.

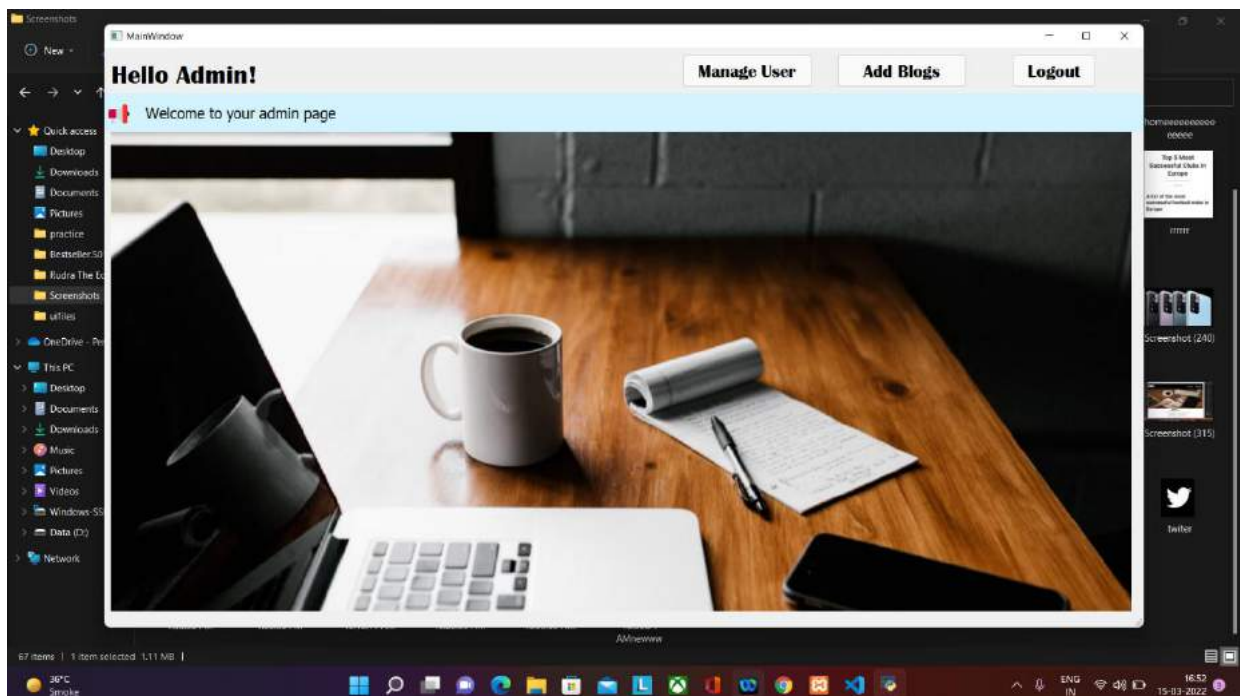


Figure 6.3: Admin Login.

**Dashboard:** This is quick access page. Users can use buttons like read blogs and create blogs.

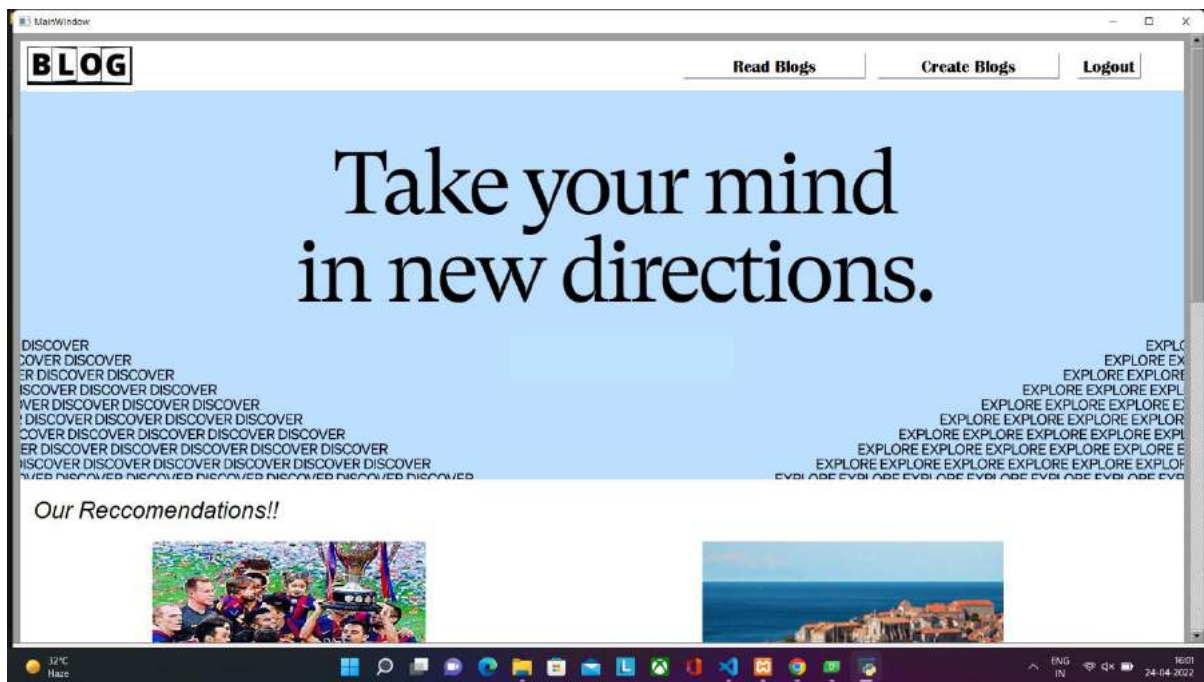


Figure 6.4: Dashboard.

**Our Recommendations:** Users can read blogs of their choice.

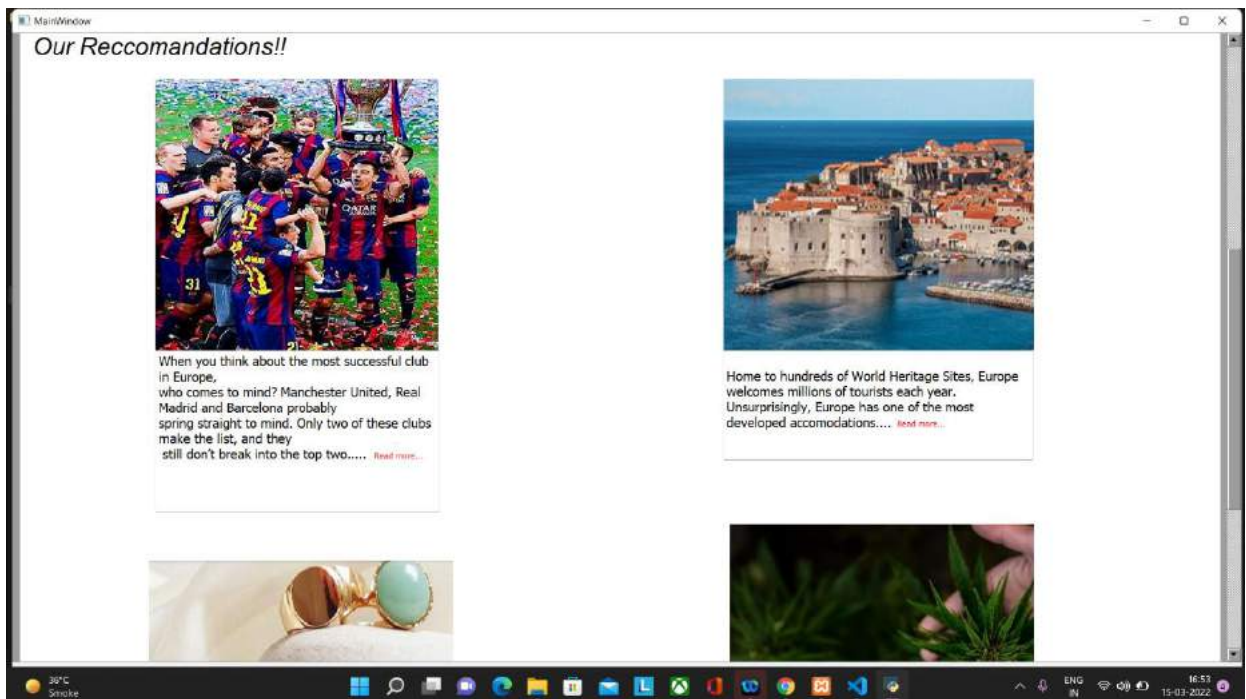


Figure 6.5: Our Recommendations.

**Explore Blogs:** Users can explore blogs of their category.

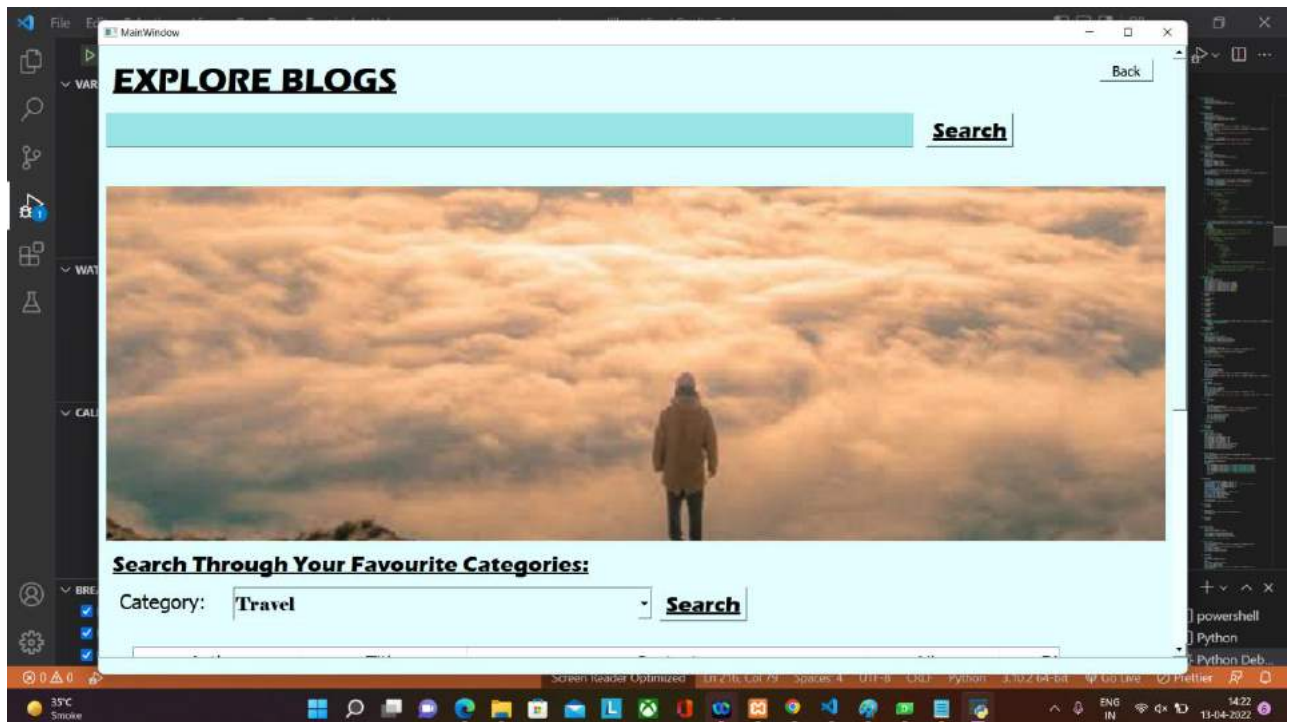


Figure 6.6: Explore Page.

**Manage User:** Admin can delete users through this page.

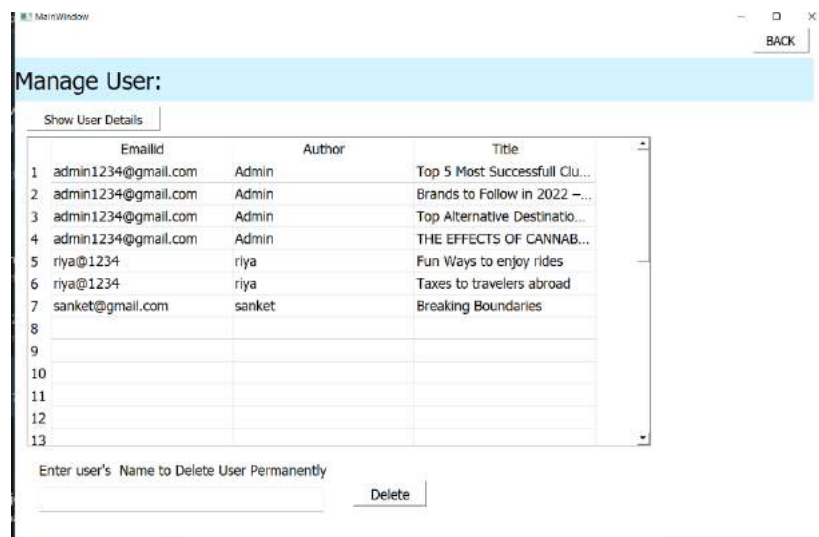


Figure 6.7: Manage User.

## Gantt Chart:

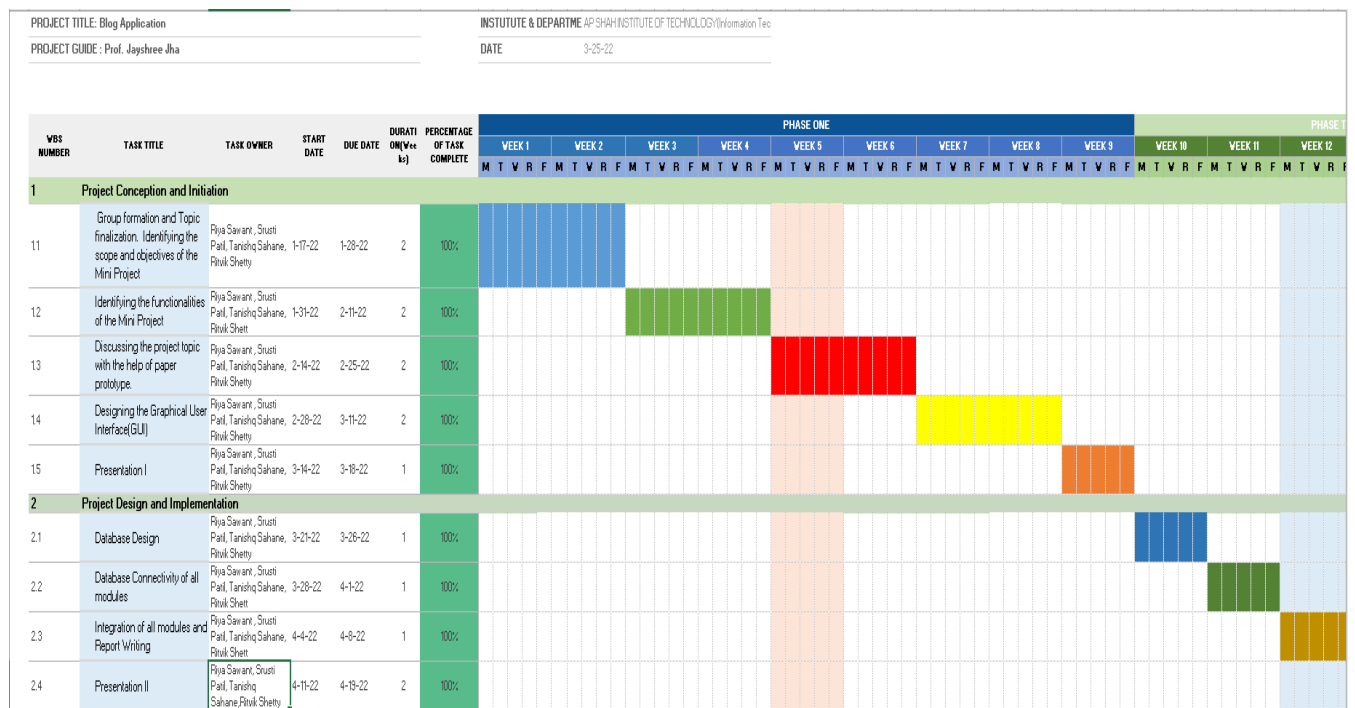


Figure 6.8: Gantt Chart

Gantt charts help teams to plan work around deadlines and properly allocate resources. Projects planners also use Gantt charts to maintain a bird's eye view of projects. They depict, among other things, the relationship between the start and end dates of tasks, milestones, and dependent tasks. Modern Gantt chart programs such as Jira Software with Roadmaps and Advanced Roadmaps synthesize information and illustrate how choices impact deadlines.

## Chapter 7

### Project Scheduling Template:

<b>Sr. No</b>	<b>Names</b>	<b>Time duration</b>	<b>Work to be done</b>
<b>1</b>	Riya Sawant Srusti Patil Tanishq Sahane Ritvik Shetty	1 <sup>st</sup> week of February to end of 2 <sup>nd</sup> week of February.	Designing phase of User Interface
<b>2</b>	Riya Sawant Srusti Patil Tanishq Sahane Ritvik Shetty	3rd week of February to end of February.	Implementation and testing of Design.
<b>3</b>	Riya Sawant Srusti Patil Tanishq Sahane Ritvik Shetty	1 <sup>st</sup> week of March to end of 2 <sup>nd</sup> week of March.	Database Phase1: Creating Database.
<b>4</b>	Riya Sawant Srusti Patil Tanishq Sahane Ritvik Shetty	3rd week of March to end of March.	Database Phase2: Connection of Database to UI.

<b>5</b>	Riya Sawant Srusti Patil Tanishq Sahane Ritvik Shetty	1 <sup>st</sup> and 2 <sup>nd</sup> week of April.	Final testing of Application and Resolving issues if any.
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Table 7.1 Project Scheduling Template

## Chapter 8

### Conclusion:

Our project is only a humble venture to satisfy the needs to manage their project work. Several user-friendly coding has also adopted. This package shall prove to be a powerful package in satisfying all the requirements of the user. The objective of software planning is to provide a frame work that enables the manger to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses.

While developing the system a conscious effort has been made to create and develop a software package, making use of available tools, techniques and resources - that would generate a proper system for cases. While making the system, an eye has been kept on making it as user-friendly. As such one may hope that the system will be acceptable to any user and will adequately meet his/her needs. As in case of any system development process where there are number of short comings, there have been some shortcomings in the development of this system also.

**In the end, it is concluded that we have made effort on the following points...**

- Made statement of the aims and objectives of the project.
- The description of Purpose, Scope, and applicability.
- We define the problem on which we are working in the project.
- We describe the requirement Specifications of the system and the actions that can be done on these things.
- We understand the problem domain and produce a model of the system, which describes operations that can be performed on the system.
- We included features and operations in detail, including screen layouts.
- We designed user interface and security issues related to system.
- Finally, the system is implemented and tested according to test cases.
- A description of the background and context of the project and its relation to work already done in the area.



## Reference:

[1] Blogs are taken from following sites:

- <https://www.wanderingearl.com/>
- <https://thesporting.blog/>
- <https://www.hellofashionblog.com/>

[2] App reference: <https://play.google.com/store/apps/details?id=com.google.android.apps.blogger>