A Mini Project Synopsis on

JotSpot: Personal note-taking app

Submitted in partial fulfillment of the requirements for the

degree

Second Year Engineering – Computer Science and Engineering (Data Science)

Submitted By

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CERTIFICATE

This to certify that the Mini Project report on JotSpot- personal note-taking app has been submitted by **Azra Attar** (**23107037**), **Mrinmayi Badirke** (**23107018**), **Drishti Bhadsavle** (**23107076**) and **Yash Wadekar** (**23107064**) who are bonafide students of A. P. Shah Institute of Technology, Thane as a partial fulfillment of the requirement for the degree in **Computer Science Engineering (Data Science)**, during the academic year **2024-2025** in the satisfactory manner as per the curriculum laid down by University of Mumbai.

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Date:

ACKNOWLEDGEMENT

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Chapter 1

Introduction

The increasing reliance on digital tools for organizing, managing, and processing information has prompted the need for efficient note-taking solutions. This chapter introduces the motivation behind the development of the note-taking app, highlighting the problem of inefficient note organization and the need for a user-friendly solution.

1.1 Purpose

The primary purpose of this note-taking app is to provide users with a convenient and organized platform to capture, store, and retrieve their notes efficiently. Whether for personal, academic, or professional use, the app aims to simplify the process of note management. Additionally, the app seeks to enhance user productivity by enabling quick access to important information while ensuring that all data is secure and easily searchable. This app is a comprehensive tool for daily tasks and long-term information storage.

1.2 Problem Statement

In an increasingly digital world, individuals often struggle to keep their notes organized and accessible. Traditional methods of note-taking can lead to lost information, lack of synchronization across devices, and difficulty in retrieval.This app aims to address these issues by providing a seamless experience for users to create, manage, and access notes efficiently. Additionally, users are allowed to list their task and assign priorities ,they can also set reminders on important events, deadlines etc. for proper organization and management.

1.3 Objectives

1. Allowing users to save notes in the form of folders.

2. Allowing users to add images to the notes.

3. Allowing them to set reminders.

4. Allowing them to change page color, font colour, font type, font style, and

   giving bullets, checkmarks, etc.

1.4 Scope

• The development of a user interface that is intuitive and functional. A well-designed user interface (UI) is crucial for a note-taking app as it directly affects user experience and engagement. For Jotspot, the UI should be clean, easy to navigate, and minimize the learning curve for new users. The key components include:

• Integration of categories and tagging systems to organize notes. Organizing notes effectively is a significant part of any note-taking app. Categories and tagging systems allow users to classify their notes and retrieve them quickly.

• Basic encryption for user data security. In an era where data security is paramount, protecting user data in a note-taking app is essential.

Chapter 2

Proposed System

Whether for personal use, academic purposes, or professional tasks, the app offers features such as categorization and tagging, making it easy for users to store and retrieve information.
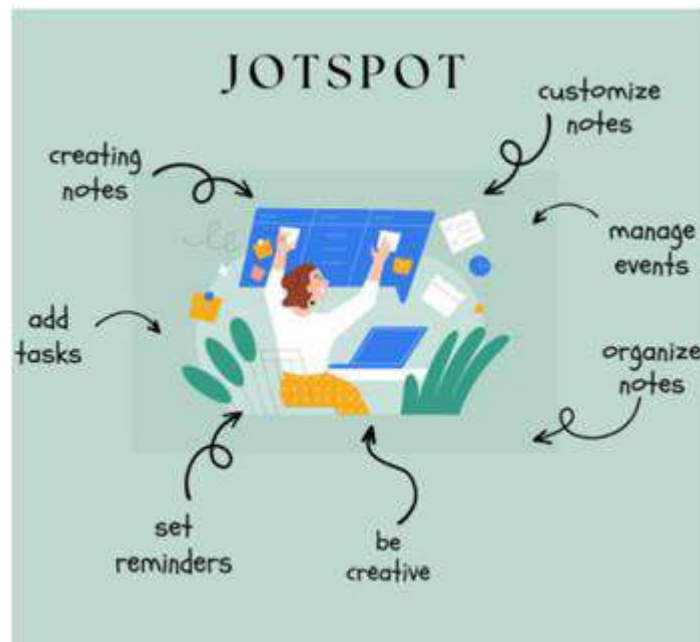

Figure 2.1: Features and functionalities of Jotspot- personal note-taking app

Fig 2.1 shows all the features we provided in Jot-Spot: Personal note-taking app. They are listed below:

2.1 Features and Functionalities:

2.1.1. Themes: Gives users 6 different themes to choose from light, dark, sage, navy, etc.

2.1.2. Change background color: Allowing users to add colors they like to the background of the app.

2.1.3. Change the To-Do list color: Allowing users to change the color of the to-do list.

2.1.4. Change Font color: Allowing users to change the color of the font color of the app.

2.1.5. To-Do list: A simple to-do list that allows the users to add tasks and mark them as done or not.

2.1.6. Reminders: Allows the users to set the date and event name and gives them reminders on how much time is left for the event or submissions.

2.1.7. Add Notes: Gives users an interface where they can jot down notes, highlight important details, change font style, add bullet points, pointers, add images, etc.

2.1.8. Whiteboard: Creating whiteboards for effective note-taking.

Chapter 3

Project Outcome

1. **Functional Note-Taking Application:**

   - A fully functional app where users can create, edit, organize, and delete notes.

   - Ability to categorize notes with tags or folders, making them easier to manage and find.

2. Intuitive User Interface:

   - A simple and user-friendly interface that enables easy navigation and note management.

   - Features like a rich text editor, search functionality, and note categorization tools to enhance the user experience.

3. Data Security:

   - Basic encryption and data protection measures implemented, ensuring that user's notes remain private and secured from unauthorized access.

4. Improved Productivity and organization:

   - The app will help users to improve their productivity by providing an efficient tool to store, organize and retrieve notes quickly, minimizing the time spent searching for information.

5. Scalable Design:

   - The app will have a modular design, allowing for future enhancements such as uploading images or advanced formatting tools.

Chapter 4

Software Requirements

Front-end:

- **Java NetBeans:** Apache NetBeans is a free, open-source integrated development environment (IDE) for Java and other programming languages. It provides comprehensive tools for developing desktop, web, and mobile applications with built-in support for Java, PHP, JavaScript, and more. With features like code editing, debugging, and project management, it simplifies software development.

Back-end:

- **MySql Workbench:** MySQL is an open-source relational database management system (RDBMS) that uses structured query language (SQL) for managing and manipulating data. It is widely used for web applications and data storage due to its scalability, performance, and ease of use. MySQL supports largescale data operations and is commonly integrated with technologies like PHP, Python, and Java.

Chapter 5

Project Design

5.1 Application Architecture

1. **Frontend (Client-Side)**: Built with NetBeans, this layer provides a responsive user interface, allowing users to interact with the application seamlessly. It handles user authentication, displays notes, and provides the note creation and editing functionality.
2. **Backend**: Built with MySQL workbench which is easy and efficient and makes it easy to manage.
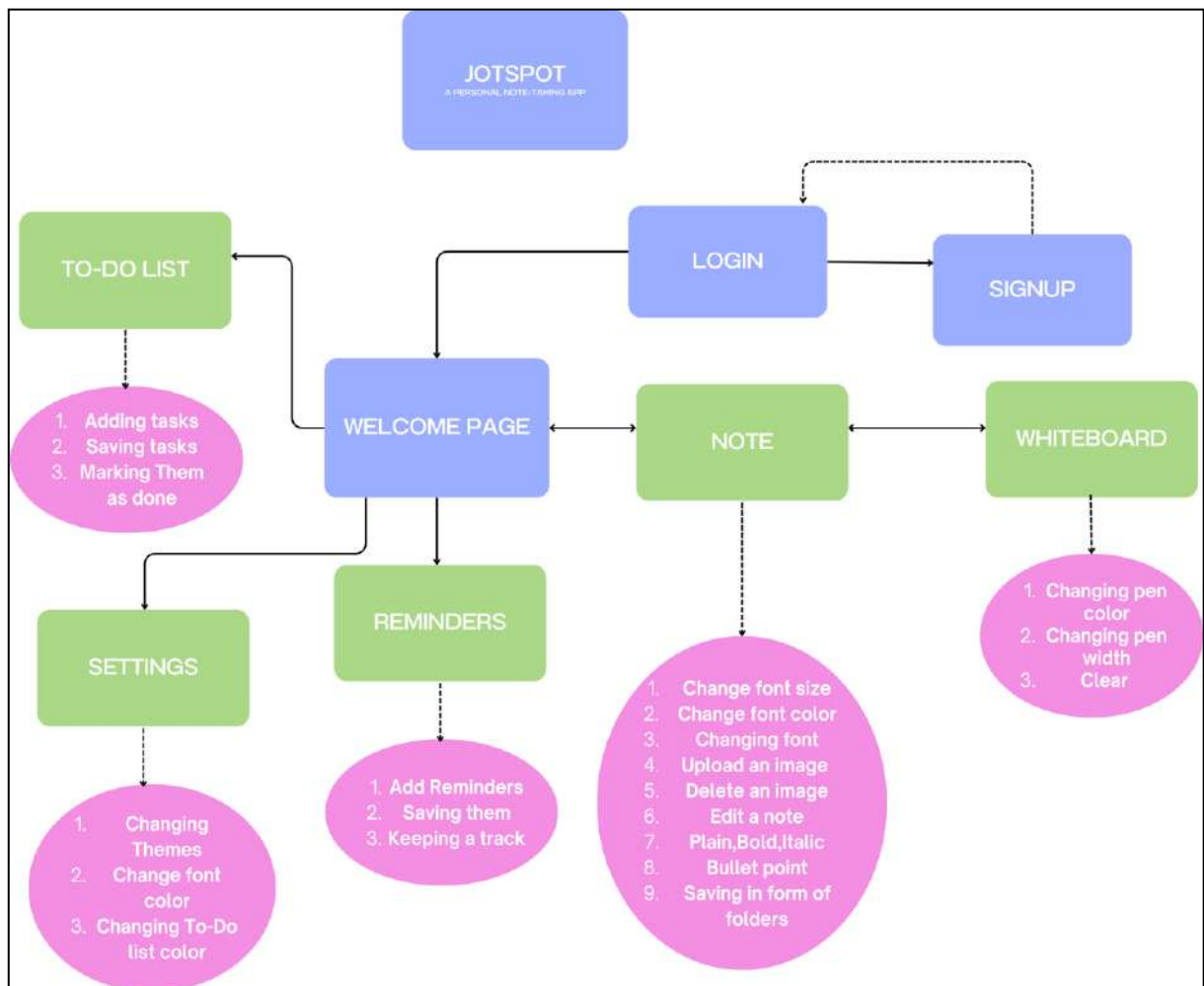
5.2 Application Block Diagram

Figure 5.1: Block Diagram of JotSpot

This figure shows the flow and features of the application using a simple diagram. The diagram contains the layout of the project where on login in user can see the homepage and it's various features like to-do list, reminders etc they can add notes and also use the whiteboard

Chapter 6

Project Scheduling

Gantt Chart: A Gantt chart is a widely-used project management tool that provides a graphical representation of a project's timeline. It helps illustrate the sequence of tasks, their durations, and the relationship between different tasks. Each task is represented as a horizontal bar, with the length corresponding to the time it takes to complete that task.

1st week of August: Creating a Basic GUI of a login page and Signup page and connecting it to MySQL

2nd week of August: Creating GUI of a To-Do list that adds tasks, marks them as done and connects it to MySQL

3rd week of August: Creating a reminder panel that takes the event name, description, and event date as input and returns the time left for that. Connecting this to MySQL

1st ,2nd week of October: Creating the Notes page where users add their notes and can use various functionalities like font style, font color, upload an image etc.

By the end of October: Creating a whiteboard for drawing using different pens and clearing it.

GANTT CHART TEMPLATE

Smartsheet Tip · A Gantt chart's visual timeline allows you to see details about each task as well as project dependencies.

PROJECT TITLE: JotSpot-A Personal notes taking app

PROJECT GUIDE: Prof. Vaibhav Yawalkar

INSTITUTE & DEPARTMENT NAME: AP SHAH INSTITUTE OF TECHNOLOGY(CSE-Data Science)

DATE: 10-8-24

WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATIO N (Weeks)	PERCENTAGE OF TASK COMPLETE
1	Project Conception and Initiation					
1.1	Group formation and topic finalization. Identifying the scope and objectives of the Mini Project	Azra Attar,Mrunayi Bhadshe,Di-sha Wadhkar	7-6-24	7-23-24	2	100%
1.2	Identifying the functionalities of the Mini Project	Azra Attar,Mrunayi Bashke,Di-sha Bhadsaie	7-23-24	8-6-24	2	100%
1.3	Discussing the project topic with the help of paper prototype.	Azra Attar,Mrunayi Bhadsaie	8-6-24	8-20-24	2	100%
1.4	Designing the Graphical User Interface(GUI)	Bashke,Dhisi Bhadsaie	8-20-24	9-10-24	3	100%
1.5	Presentation I	Azra Attar,Mrunayi Bashke,Dhisi Bhadsaie	9-10-24	9-17-24	1	100%
2	Project Design and Implementation					
2.1	Database Design	Azra Attar,Mrunayi Bashke,Dhisi Bhadsaie	9-17-24	9-24-24	1	100%
2.2	Database Connectivity of all modules	Azra Attar,Mrunayi Bashke,Dhisi Bhadsaie	9-24-24	10-1-24	1	100%
2.3	Integration of all modules and Report Writing	Azra Attar,Mrunayi Bashke,Dhisi Bhadsaie,Yash Wadkar	10-1-24	10-8-24	1	100%
2.4	Presentation II	Azra Attar,Mrunayi Bashke,Dhisi Bhadsaie	10-8-24	10-15-24	1	100%

PHASE ONE: WEEK 1 – WEEK 9

PHASE TWO: WEEK 10 – WEEK 14

Figure 6.1 Gantt Chart

Chapter 7

Results

1. Functionality achieved:

- The Jotspot notes app successfully allows users to create, edit, and delete notes. Each note can be saved with a title and detailed content, providing users with an organized way to manage their information.

2. Reminder System:

- Jotspot includes a reminder feature where users can set reminders for individual notes. This feature notifies users of important deadlines or tasks, ensuring that no important notes are overlooked.

3. User Interface:

- The app features a clean and simple interface. It uses intuitive buttons and menus for adding, editing, and deleting notes.

4. Database Management:

- The data (notes, categories, reminders) is stored in a MySQL database, ensuring that user data is persistently saved and can be accessed or modified at any time.
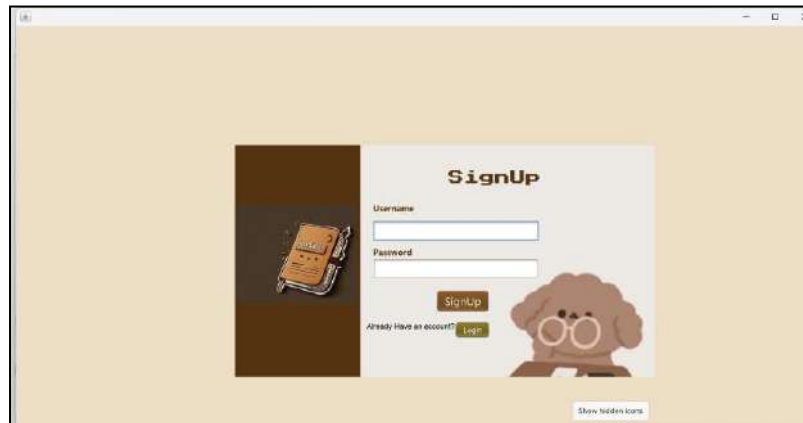
1. Sign up page:

Figure 7.1 Sign-up page

7.1: This page allows new users to register to Jotspot
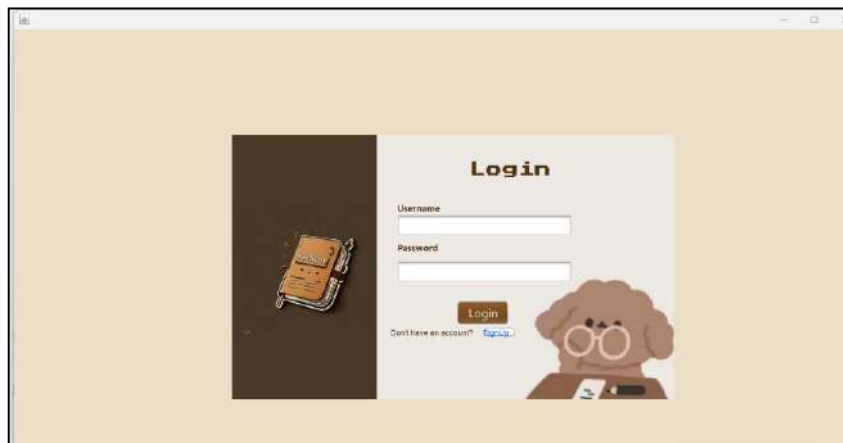
2. Login page:

Figure 7.2: Login page

7.2: Allows users to login into JotSpot

3. Homepage:

Figure 7.3: Welcome page

7.3: Depicts various features like a To-do list, reminder, folders, and settings.

4. Note entry page:

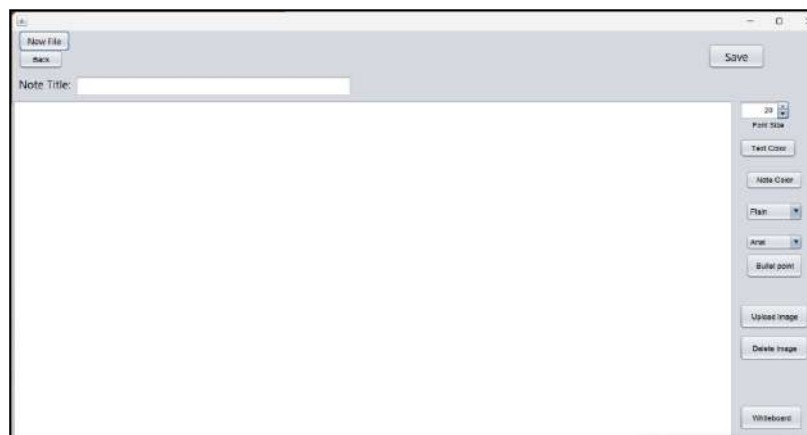

Figure 7.4.1: Note page

This page shows various features like font size, text color, fonts, font style, upload &delete images, and whiteboard, before taking any input.
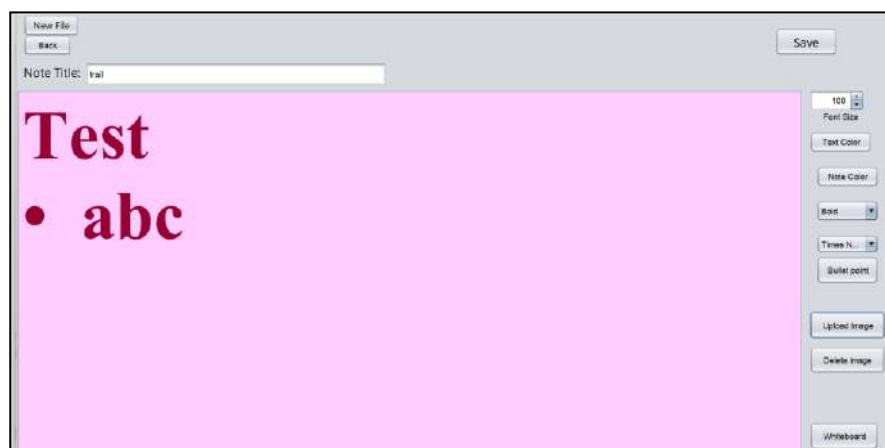

Figure 7.4.2: Note page

This page shows various features like font size, text color, fonts, font style, upload &delete images, and whiteboard, After taking input.

Chapter 8

Conclusion

JotSpot emerges as a powerful and user-friendly personal note-taking application designed to transform how individuals capture and organize their thoughts. By prioritizing an intuitive interface and robust functionality, JotSpot empowers users to seamlessly create, edit, and retrieve notes with ease.

As we look to the future, JotSpot is committed to continuous improvement, incorporating user insights and innovative features to meet the evolving needs of its community. With a strong foundation laid, JotSpot not only simplifies note management but also inspires creativity and productivity, making it an essential companion for students, professionals, and anyone in between. The journey has just begun, and we are excited to see how JotSpot will grow and adapt, becoming an even more vital part of users' daily lives.

References

1. **Chandra, A., & Bedi, S.**, "An Analysis of Note Taking Applications with Emphasis on Organizational Structure and User Interface," ResearchGate, April 2007, pp.882-886.

2. **Anna Matysek & Jacek Tomaszczyk.,** "Digital Wisdom in Research Work," ResearchGate, December 2020, pp.99-100.

3. **Joanna Pitura.,** "Digital Note-taking for writing," ResearchGate, September 2023, pp. 101-119.

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