

TASKEAZE

**A PROJECT REPORT
for
Mini Project (K24MCA18P)
Session (2024-25)**

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**Under the Supervision of
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CERTIFICATE

Certified that **Mradul Tyagi 202410116100125, Nainsi Jain 202410116100128, Gargi Singh 202410116100072** have carried out the project work having “**TaskEaze**” (**Mini-Project-1 K24MCA18P**) for **Master of Computer Application** from Dr. A.P.J. Abdul Kalam Technical University (AKTU) (formerly UPTU), Lucknow under my supervision. The project report embodies original work, and studies are carried out by the student herself and the contents of the project report do not form the basis for the award of any other degree to the candidate or to anybody else from this or any other University/Institution.

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TASKEAZE

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ABSTRACT

TaskEaze is an innovative task management web application designed to simplify and enhance productivity for individuals and teams. Built using modern web technologies like HTML, CSS, JavaScript, Node.js, Express, and MySQL, **TaskEaze** offers a comprehensive set of features tailored to user needs.

The application enables users to categorize tasks dynamically, allowing for customized organization. Advanced scheduling tools and calendar integration ensure efficient planning and execution. Progress reports (weekly/monthly) provide insights into completed and pending tasks, helping users monitor their productivity.

To make task management engaging, **TaskEaze** incorporates gamified elements such as badges and streaks. Collaborative tools promote teamwork, while personalized themes, including dark mode, enhance the user experience. A dedicated profile section enables users to showcase achievements and manage personal settings.

The notification popup system offers a seamless way to manage alerts without page navigation. The app's focus on user customization and accessibility emphasizes its commitment to easing task management challenges.

TaskEaze is a powerful, user-friendly platform aimed at helping users organize, prioritize, and accomplish their tasks effortlessly while promoting collaboration.

Keywords : Taskeaze, task management, productivity tool, gamification, progress tracking, collaboration tools, task streaks, collaboration, and productivity enhancement.

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INTRODUCTION

1.1 Overview

TaskEaze is a cutting-edge web application designed to transform task management by addressing the evolving needs of users in personal and professional domains. This platform provides advanced features like dynamic categorization, gamification, progress analysis with task status, and collaboration tools, creating a holistic approach to productivity.

Modern lifestyles demand efficient solutions for managing multiple responsibilities across work, personal life, and hobbies. Traditional task management tools often fall short, offering only basic functionality that does not cater to the complexity and personalization required by today's users. TaskEaze bridges this gap by integrating innovative features that address productivity and organization in a seamless manner.

One of TaskEaze's standout qualities is its adaptability. Whether users are students managing academic schedules, professionals handling workplace projects, or individuals organizing personal goals, TaskEaze offers customizable solutions that fit unique workflows. By incorporating features like dynamic categorization and gamification, the platform not only enhances productivity but also keeps users motivated and engaged.

With its intuitive interface and user-centric design, TaskEaze helps individuals and teams efficiently manage their tasks while maintaining focus and motivation. It combines productivity enhancements, making it a revolutionary tool in task management.

1.2 Problem Statement

Managing tasks effectively in today's dynamic and fast-paced environment is a significant challenge. Existing task management tools often provide only basic functionality, which fails to meet the diverse and complex needs of modern users. These tools lack personalization, advanced features, and engagement elements that could keep users motivated and organized. Additionally, they seldom address the importance of mental well-being, which is a critical aspect of maintaining long-term productivity and focus.

TaskEaze addresses these shortcomings by offering a robust, user-friendly platform that caters to both personal and professional task management needs. It introduces features like dynamic task categorization, personalized themes, gamification, and real-time progress tracking to create an engaging and efficient experience. By integrating well-being tools such as mood tracking and mental health assessments, TaskEaze ensures users can maintain a balanced approach to their daily responsibilities. This innovative solution bridges the gap between traditional task management and the evolving needs of modern users, making it a transformative tool for productivity.

1.3 Functional and Non-Functional Requirements

1.3.1 Functional Requirements

1. User Authentication:

- Secure user registration and login.

2. Task Management:

- Create, edit, and delete tasks.
- Set deadlines and priorities for tasks.

3. Advanced Scheduling:

- Integrated calendar functionality for deadline tracking and reminders.
- Option to schedule recurring tasks.

4. Collaboration Tools:

- Real-time task sharing with team members.
- Assign roles and track progress on shared tasks.

5. Dashboard Overview:

- Display an overview of task statuses (e.g., completed, pending, overdue).
- Provide quick access to tasks based on categories or deadlines.

6. Progress Analysis:

- Weekly and monthly progress reports showcasing completed and pending tasks.
- Visual representation of task performance using charts or graphs.

7. Notifications:

- Alerts for task creation, updates, deadlines, and collaboration activities.
- Popup notifications for immediate user attention.

8. Customizable Profiles:

- Allow users to personalize their profiles with themes, avatars, and preferred settings.

9. Settings and Preferences:

- Options to edit account details, manage notification preferences, and customize themes.

1.3.2 Non-Functional Requirements

1. Performance:

- The system should load within 3 seconds for any page or functionality.
- The application should support up to 1000 concurrent users without performance degradation.

2. Scalability:

- The architecture must accommodate future features and increased user base.

3. Usability:

- The interface should be intuitive and easy to navigate, requiring minimal learning effort.
- Ensure accessibility compliance, including support for keyboard navigation and screen readers.

4. Reliability:

- The system should maintain 99.9% uptime with minimal downtime for maintenance.
- Backup mechanisms should prevent data loss during unexpected failures.

5. Security:

- Ensure encrypted storage of sensitive data, such as user passwords.

6. Portability:

- The application should be compatible across multiple browsers (Chrome, Firefox, Edge).

7. Maintainability:

- The codebase should follow modular architecture for easier debugging and updates.
- Documentation should accompany the code to assist developers with future enhancements.

1.4 Scope of the Study

TaskEaze is designed for individuals and teams aiming to improve their productivity and manage tasks efficiently. It caters to professionals, students, and anyone seeking a tool that balances task organization with well-being.

The platform's initial features focus on task categorization, progress tracking, and gamified elements for motivation. Over time, additional modules may be introduced, expanding functionality to include more collaborative tools, advanced analytics, and integrations with external platforms. TaskEaze emphasizes usability and engagement, ensuring it remains a valuable tool for diverse user needs.

1.5 Methodology

This has been a very structured development process to ensure that TaskEaze is effective, enjoyable, and engaging for its users.

1. **Requirement Analysis:** Understand the needs related to an interactive task management platform, including features like dynamic categorization, progress tracking, and gamification.
2. **System Design:** Develop an intuitive platform with a user-friendly interface and interactive features to enhance usability and engagement.
3. **Development:** Integrate all components into a single experience using web technologies like HTML, CSS, JavaScript, Node.js, Express, and MySQL.
4. **Testing:** Test the platform rigorously to ensure it functions as anticipated and incorporates user feedback to refine the experience.
5. **Deployment:** Launch the platform for public use, accompanied by regular updates to improve functionality and incorporate new features.

LITERATURE REVIEW

2.1 Background

Literature review focuses on current task management tools and areas not currently catered for by **TaskEaze**. Through this analysis, it is guaranteed that the application meets the requirements of relevance, innovation, and user-centric focus.

2.2 Current Solutions

Trello:

Trello offers the ease of using board-based systems but falls short in features due to lack of progress analytics, gamification, or sophisticated collaboration options that have become widely appreciated and valued by a modern user base.

Asana:

This is a powerful task and project management tool with excellent collaboration features, but it may be too overwhelming for beginners, and it is not very flexible in terms of custom workflows on tasks and progress analysis.

Todoist:

Designed for simplicity and ease of use, Todoist is best suited for the needs of easy-to-use task management applications. However, it lacks dynamic categorization as well as gamification features, and advanced team collaboration, thus reducing its appeal to more diverse users.

Microsoft To-Do:

It integrates with other Microsoft services and offers basic functionalities of task management. Nevertheless, it does not offer such features as tracking of advanced progress, gamification, or customizable dashboards.

2.3 Key Studies and Findings

User Engagement:

Various researches determined the importance of gamification in activity management, pointing out that tools with badges and streaks and rewards result in greater user retention and more fulfilled completion of tasks. Although platforms like Habitica apply this approach quite successfully, they lack robust collaboration and scheduling features.

Customization and Personalization:

Evidence shows that the ability to customize task management tools to specific workflows is significant for users. Applications with features of support for custom categories and dashboards increase user satisfaction and adoption rates by numerous fold.

Collaborative Productivity:

Real-time collaboration tools, such as shared tasks and role assignments, are seen today as necessities for team-based environments in order to follow each other's progress and enhance communication capabilities.

2.4 Identified Gaps

Lack of Extensive Personalization :

Most tools lack dynamic categorization and adjustable dashboards, making it impossible to adapt to one's specific needs rather than sticking to a regular workflow.

No Engagement Strategies:

Lack of gamification techniques such as rewards, streaks, or badges affects the overall motivation and long-term engagement of users.

Inadequate Progress Analysis:

Most platforms do not give a complete overview of task statuses and detailed analysis of progress; hence their application is limited for tracking performance.

2.5 TaskEaze's Contribution

TaskEaze fills that chasm with a holistic task management approach:

Dynamic Categorization: Allows the user to create and manage customized categories of tasks with flexible and personalized workflows.

Gamification Features: Encourages engagement through the issuance of badges, streaks, and reward-based tracking of progress.

Advanced Scheduling: Integrated calendar functionality to track deadlines and reminders in the most efficient manner possible

Collaborative Tools: Facilitates teamwork through task sharing, role assignments, and realtime updates.

Dashboard Overview: Detailed interactive dashboard, indicating task statuses, such as completed, pending, and overdue ones, that assist its users in tracking the progress of all their work.

Notifications upon Task Creation: Keeps the users concerned notified with the newly created tasks and changes, thus enhancing proactive management of tasks.

With regards to these shortcomings, **TaskEaze** becomes a full-scale, user-focused solution, setting the bar higher for applications related to task management.

PROJECT OBJECTIVE

TaskEaze is a task management platform designed to simplify productivity with advanced tools, gamified features, and personalized options. It focuses on enhancing efficiency, fostering collaboration, and promoting a balanced work-life experience.

- **Enhance Productivity:** Provide a streamlined platform to manage tasks efficiently, catering to both individuals and groups by organizing, scheduling, and tracking tasks effectively.
- **Advanced Task Management:** Allow users to create tasks with customizable categories, attach notes, set priorities, and schedule deadlines using an integrated calendar.
- **Personalization Options:** Offer customizable profiles, theme selection (including dark mode), and user-defined preferences to ensure a tailored user experience.
- **Gamified Motivation:** Introduce gamified features like badges, task streaks, and achievements to encourage consistency and engagement in task completion.
- **Collaborative Productivity:** Facilitate collaboration through shared tasks and tools designed for group coordination, enabling efficient teamwork.
- **Notifications and Alerts:** Provide real-time notifications, ensuring users stay updated with task reminders and project deadlines, along with an easily dismissible popup for notifications.
- **Progress Tracking:** Generate detailed weekly and monthly progress reports showing completed, pending, and overdue tasks to help users evaluate and improve performance.
- **Ease of Use:** Focus on an intuitive and aesthetically pleasing interface that simplifies task management, aligning with the project's core emphasis on "ease" in task organization.

HARDWARE AND SOFTWARE REQUIREMENTS

4.1 Hardware Requirements

Development Machine:

Processor: Intel Pentium or equivalent.

RAM: 2 GB.

Storage: 64 GB HDD or SSD.

Display: Standard resolution (1024x768 or higher).

Server Requirements:

Processor: Intel Pentium or equivalent.

RAM: 2 GB to handle database queries and server-side operations.

Storage: 64 GB HDD or SSD for hosting the application and database.

Network: Stable internet connection.

4.2 Software Requirements

Frontend Development:

HTML5 and CSS3: For structuring and styling the application interface.

JavaScript: For dynamic client-side functionality and interactivity.

Bootstrap and Tailwind CSS: Combined to provide responsive design frameworks, prebuilt components, and utility-first classes for rapid, customizable, and consistent styling.

Backend Development:

Node.js: For server-side scripting and application logic.

Express.js: A lightweight framework for routing and middleware.

Database Management:

MySQL: For structured data storage and retrieval.

Development Tools:

Visual Studio Code: A versatile IDE for coding and debugging.

By leveraging these minimal hardware and software resources, **TaskEaze** ensures a costeffective, efficient, and user-friendly task management platform.

PROJECT FLOW

The development of **TaskEaze** follows a structured methodology to ensure a reliable, efficient, and user-friendly application. This methodology involves iterative processes that include planning, designing, developing, testing, and deploying the system. Each phase incorporates feedback to refine and enhance the application. This elaborates on the workflow of **TaskEaze** in detail.

5.1 Project Flow:

1. Homepage Display:

Objective: Provide users with an initial interface to explore **TaskEaze** features and navigate to login or registration pages.

Activities: Designed a welcoming homepage featuring a clear call-to-action for users to log in or register.

Included a brief overview of **TaskEaze** features, such as task creation, collaboration, and notifications.

2. User Login and Registration:

Objective: Ensure user authentication for secure access to personalized dashboards.

Activities: Implemented a user-friendly login page with options to register for new users. Validated user credentials against the database to grant access. Redirected logged-in users to the main dashboard, enabling access to core functionalities.

3. Task Management:

Objective: Allow users to create, edit, and manage tasks efficiently.

Activities: Enabled task creation with fields for title, description, due date, priority and collaboration options.

Integrated task status tracking (e.g., Pending, Completed) on the dashboard for a clear overview.

Designed the functionality for task collaboration, allowing users to assign tasks to others.

4. Profile Management:

Objective: Provide users with the ability to customize their profiles.

Activities: Added a profile page where users can update their name and passwords. Integrated options to change themes for personalized UI.

5. Notifications:

Objective: Alert users to task updates and important events.

Activities: Configured a notification system to inform users when new tasks are created, assigned, or completed. Ensured notifications are displayed in real-time with an accessible dropdown in the header.

6. Navigation and Accessibility:

Objective: Enhance usability through intuitive navigation.

Activities: Developed a navigation bar with links to Home, Dashboard, Reports, Collaboration, Achievements, Profile, Notifications, and Logout.

Implemented a persistent header for quick access to critical features across pages.

This flow ensures an intuitive user journey while addressing functional requirements like collaboration, task tracking, and personalized user experiences.

5.2 Data Flow Diagram

0 Level DFD

The Zero-Level Data Flow Diagram (DFD) represented in Fig 5.4.1 is the highest level of abstraction in the system, providing an overview of the core processes and how the system interacts with external entities. For **TaskEaze**, the two primary external entities interacting with the system are User and Database. Below is the description of the Zero-Level DFD for the TaskEaze.

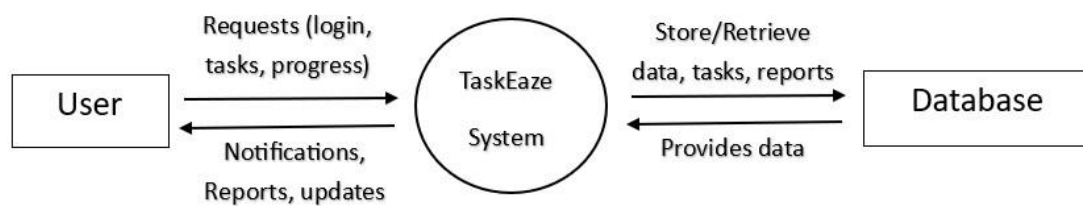


Fig – 5.2.1

Entities:

1. **User:** The individual interacting with the TaskEaze system to perform various operations such as logging in, creating and managing tasks, tracking progress, and receiving notifications or updates.
2. **Database:** The backend system responsible for storing and retrieving data such as user details, task information, progress reports, and other relevant system data.

Process:

1. **TaskEaze System:** The central system that serves as the intermediary between the user and the database. It manages the following processes:
 - **Requests Handling:** Accepts and processes requests from the user for login, task creation, updates, and progress tracking.
 - **Notifications and Reports:** Sends notifications, progress updates, and reports back to the user.
 - **Data Management:** Interacts with the database to store and retrieve data related to tasks, progress, and reports.
 - **Data Flow:** Facilitates smooth communication between the user and the database to ensure data consistency and reliability.

1 Level DFD

The **Level 1 Data Flow Diagram (DFD)** for the **Taskeaze** breaks down the Zero-level DFD into more detailed processes that describe the interactions between the **User** (Fig 5.4.2) and **Database** entities with the main functional components of the system. This level captures specific functionalities that each entity interacts with, such as user management, task management, collaboration and progress reports.

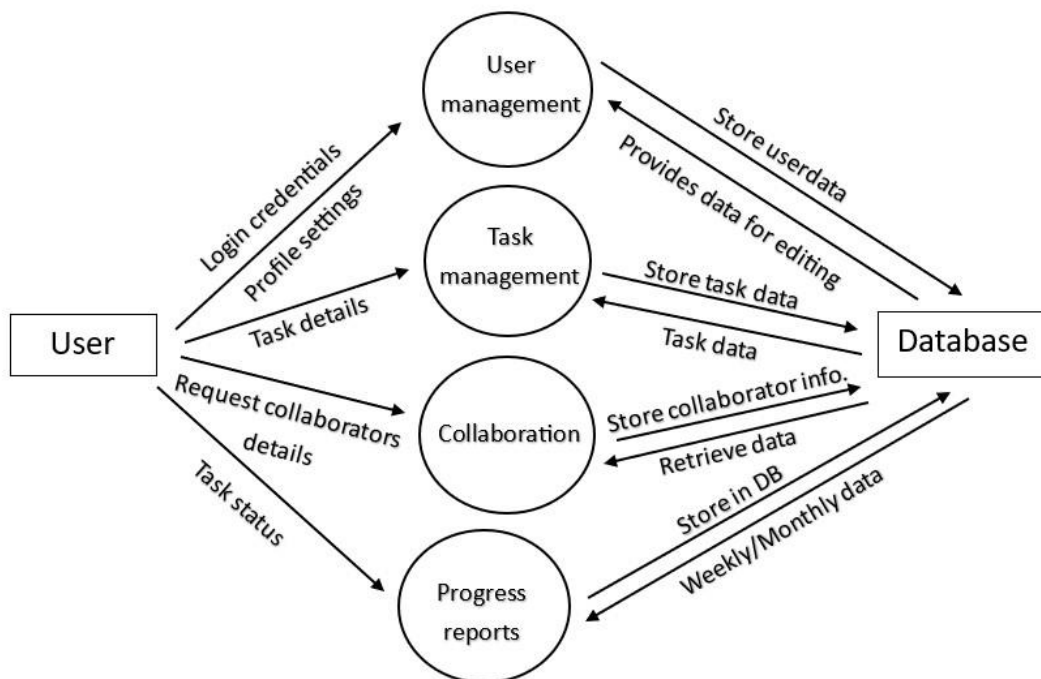


Fig – 5.2.2

Entities:

1. **User:** The individual interacting with the TaskEaze system to manage tasks, collaborate with others, and track their progress.
2. **Database:** The backend system responsible for storing and managing data such as user profiles, tasks, collaborator details, and progress reports.

Process:

1. User Management:

- Handles user-related operations such as login and profile settings.
- Receives login credentials and profile update requests from the user.
- Interacts with the database to store new user data or retrieve existing user data for editing.

2. Task Management:

- Manages tasks created and updated by the user.
- Processes task details provided by the user.
- Interacts with the database to store task data and retrieve previously saved task information.

3. Collaboration:

- Facilitates collaboration among users.
- Processes user requests to manage or retrieve collaborator details.
- Interacts with the database to store collaborator information and fetch relevant data as needed.

4. Progress Reports:

- Generates weekly or monthly progress reports for the user.
- Receives task status and progress-related data from the user.
- Interacts with the database to store progress data and retrieve data to generate comprehensive reports.

5.3 ER Diagram

An ER (Entity-Relationship) Diagram is a visual representation of the entities, attributes, and relationships within a system. It helps to model the database structure by defining how different entities are connected and interact with each other. The diagram typically consists of entities (represented as rectangles), attributes (represented as ovals), and relationships (represented as diamonds). It is an essential tool for designing and understanding the database architecture of a system.

The ER diagram provides in **Fig 5.3** is a structured overview of the entities involved in the taskease and their relationships. The primary entities include **USER**, **TASK**, **COLLABORATION**, **CATEGORY**, **REPORT** and **THEME**. Each entity has its own attributes, and the relationships between entities show how they interact within the system.

Entities and Their Attributes for TaskEase

1. User Entity

Attributes:

- **userId** (Primary Key)
- **username**
- **email**
- **password**

Relationships:

- A **User** can manage multiple **Tasks** (1-to-many).
- A **User** can generate multiple **Reports** (1-to-many).
- A **User** can customize multiple **Themes** (1-to-many).
- A **User** can collaborate on multiple **Collaborations** (1-to-many).

2. Task Entity

Attributes:

- **taskId** (Primary Key)
- **title**
- **description**
- **dueDate**
- **duration**
- **priority**
- **status**
- **userId** (Foreign Key referencing User)

Relationships:

- A **Task** can belong to one **Category** (many-to-1).
- A **Task** can involve multiple **Collaborations** (1-to-many).

3. Collaboration Entity

Attributes:

- **collaborationId** (Primary Key)
- **taskId** (Foreign Key referencing Task)
- **userId** (Foreign Key referencing User)
- **role**

Relationships:

- A **Collaboration** involves a **User** and a **Task** (many-to-many through Collaboration).

4. Category Entity

Attributes:

- **categoryId** (Primary Key)
- **name**
- **userId** (Foreign Key referencing User)

Relationships:

- A **Category** can have multiple **Tasks** (1-to-many).

5. Report Entity

Attributes:

- **reportId** (Primary Key)
- **startDate**
- **endDate**
- **completedTasks**
- **pendingTasks**
- **userId** (Foreign Key referencing User)

Relationships:

- A **User** generates multiple **Reports** (1-to-many).

6. Theme Entity

Attributes:

- **themeId** (Primary Key)
- **name**
- **colorScheme**
- **isDarkMode**
- **userId** (Foreign Key referencing User)

Relationships:

- A **User** can customize multiple **Themes** (1-to-many).

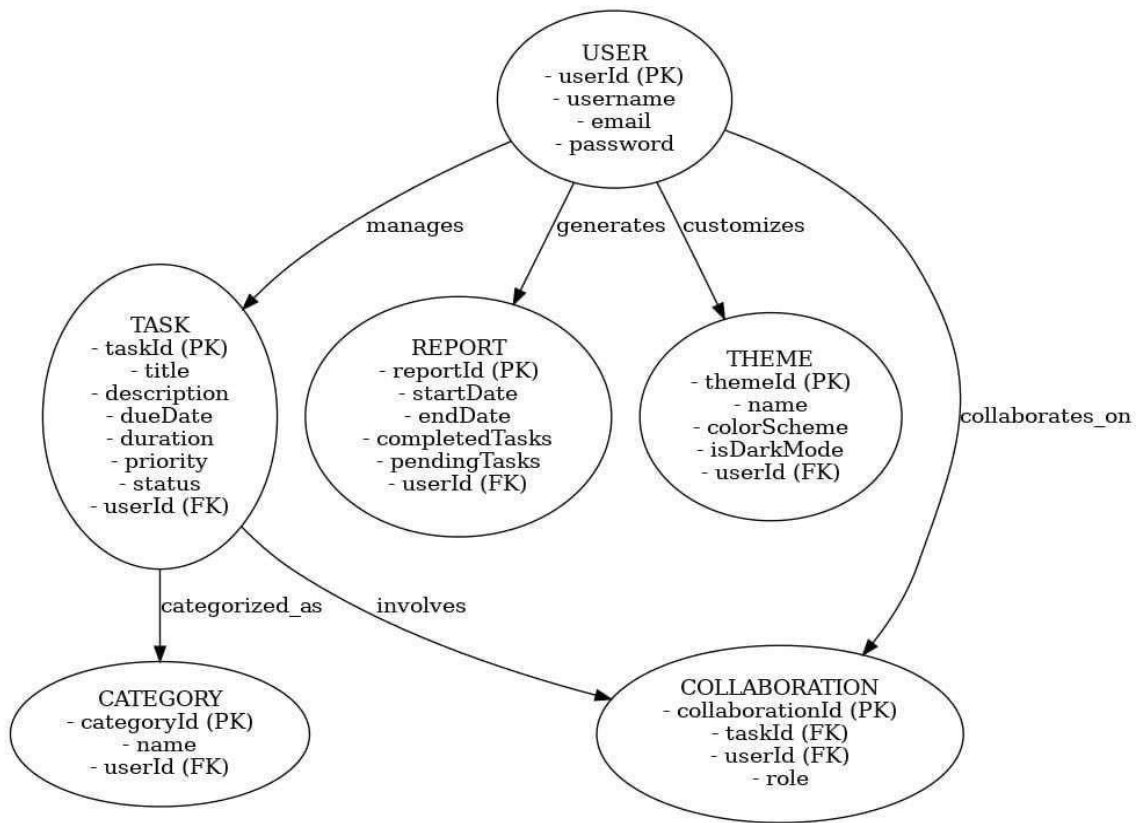


Fig – 5.3

5.4 Use case Diagram

A **use case** in software development represents a specific interaction between a user (actor) and a system to achieve a goal. It defines what the system does from the user's perspective, focusing on the **functional requirements**.

The use case diagram represents the core functionalities of the TaskEaze application. It includes the following interactions between the **Actor** (user) and the system:

1. **Login**: The starting point where the user gains access to the application.
2. **Customized Theme**: Allows users to personalize the application's interface.
3. **Report**: Provides options for generating **monthly** and **weekly** reports to track task progress.
4. **Collaboration Feature**: Enables team collaboration on tasks.
5. **Task Management**: Includes operations to:
 - **Add** new tasks.
 - **Delete** existing tasks.
 - **Set Reminders** for tasks.
 - **Schedule Tasks** based on user-defined timelines.
6. **Earn Badges**: A gamification element to reward users for completing tasks.

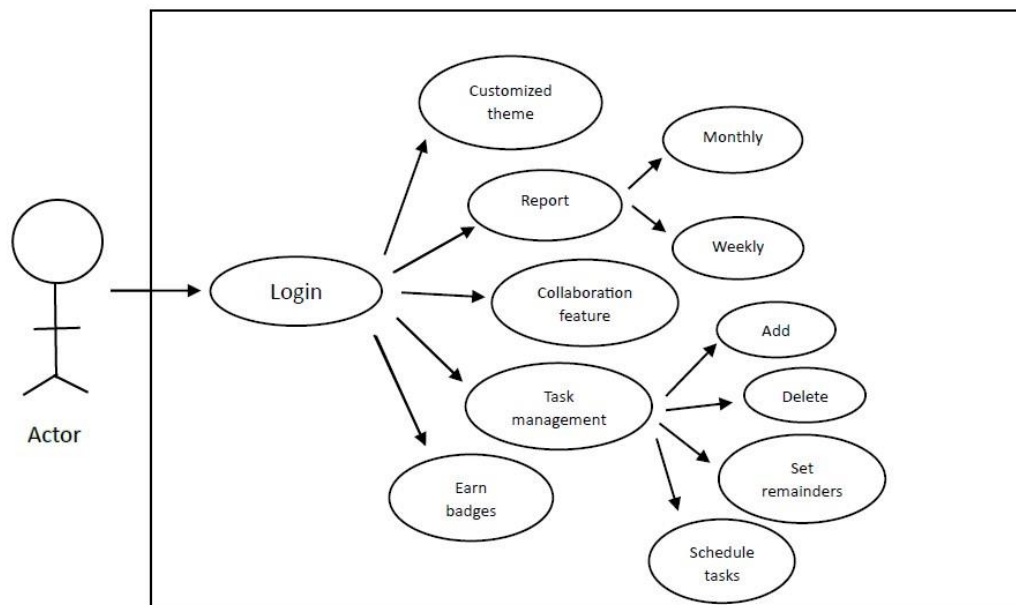


Fig – 5.4

PROJECT OUTCOMES

Enhanced Task Management:

TaskEaze successfully streamlines task creation and management. Users can create, categorize, and monitor their tasks with ease, ensuring no deadlines are missed and all work is organized effectively.

Improved Collaboration:

The collaboration feature allows users to assign tasks to other users and work on shared projects. This fosters teamwork and enhances productivity for individuals and groups alike.

Personalized User Experience:

With customizable profiles and themes, **TaskEaze** ensures each user can tailor the application to their preferences. This flexibility promotes a more engaging and enjoyable user experience.

Real-Time Notifications:

TaskEaze's notification system keeps users informed about task updates and deadlines, improving accountability and efficiency.

Insights and Progress Tracking:

The dashboard offers users detailed insights into their task progress, including completed tasks, pending items, and collaborative activities. These analytics help users plan better and maintain consistency.

Scalability and Robustness:

The application's design ensures scalability, allowing it to handle an increasing number of users and tasks without compromising performance. The use of reliable frameworks and databases guarantees robustness.

Positive User Feedback:

Initial testing and user feedback highlight TaskEaze's simplicity, efficiency, and innovative features, validating its impact as a holistic task management solution.

Home page:

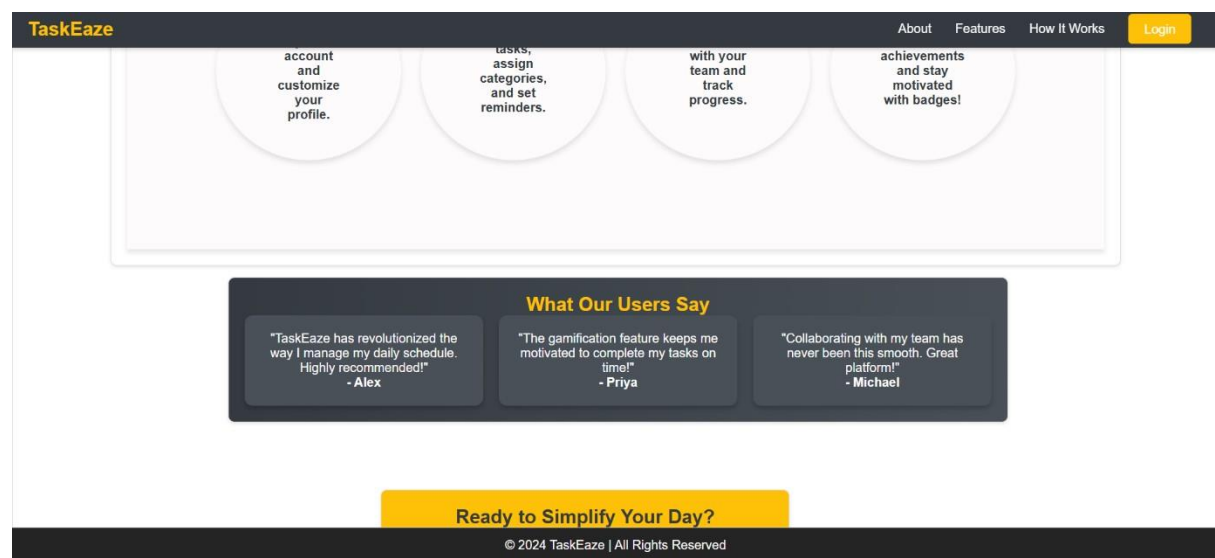


Fig – 6.1.1

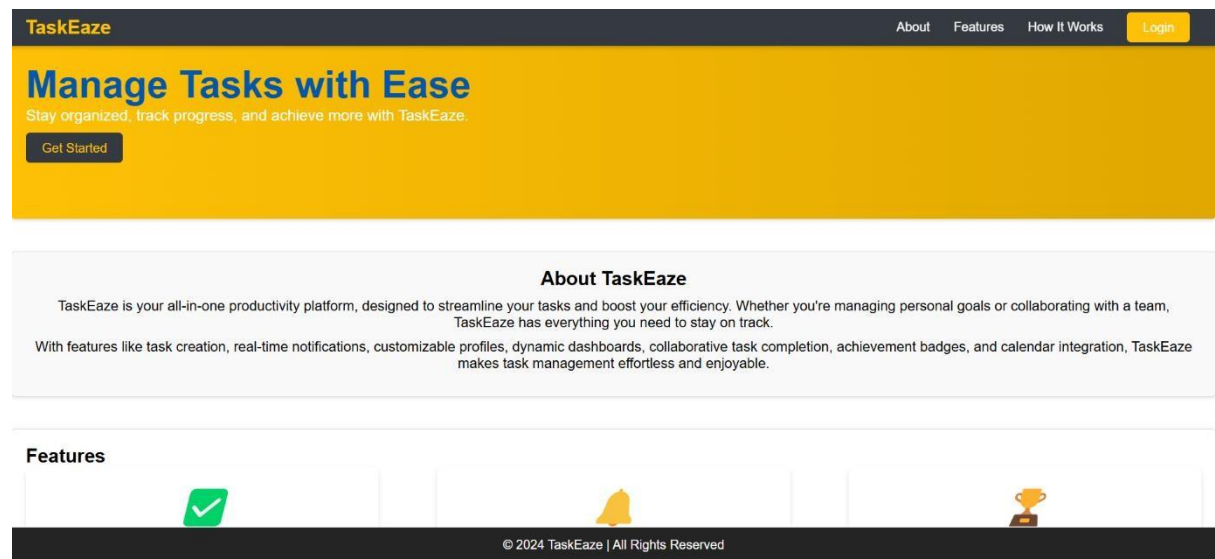


Fig – 6.1.2

User registration & login:

Create a New Account

Email:

Username:

Password:

[Register](#)

Already have an account? [Login here.](#)

Login to TaskEaze

Email

Password:


[Login](#)


Don't have an account? [Register here.](#)


Fig – 6.2


Dashboard:


Task Eaze



Name: Gargi


 Dashboard


 Create Task

 Reports

 Collaborative Tasks

 Achievements

 Settings

 Logout

Dashboard Overview

Total Tasks
1
All tasks created

Completed Tasks
1
Tasks marked as completed

Non-Completed Tasks
0
Tasks yet to be completed

Active Tasks
2
Currently active tasks

Your Tasks

Title	Priority	Due Date	Action
art	Low	2024-12-12	Mark as Completed
team work	Medium	2024-12-13	Mark as Completed

Fig – 6.3

Notifications:

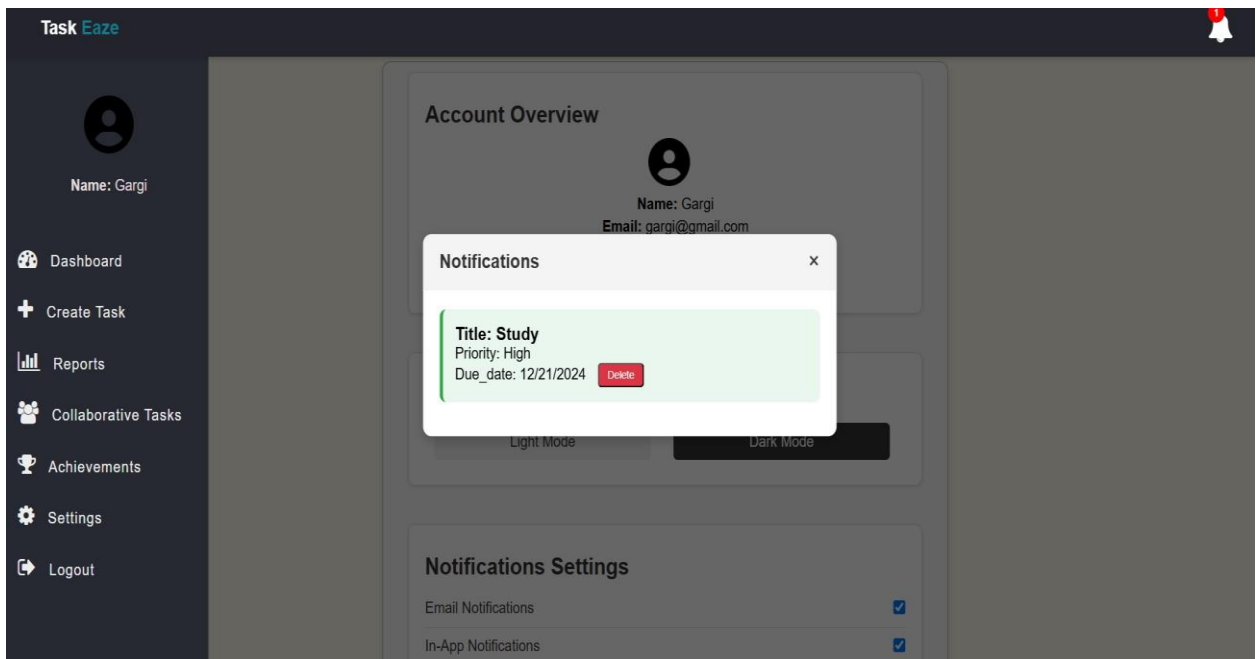


Fig – 6.4

Task Creation:

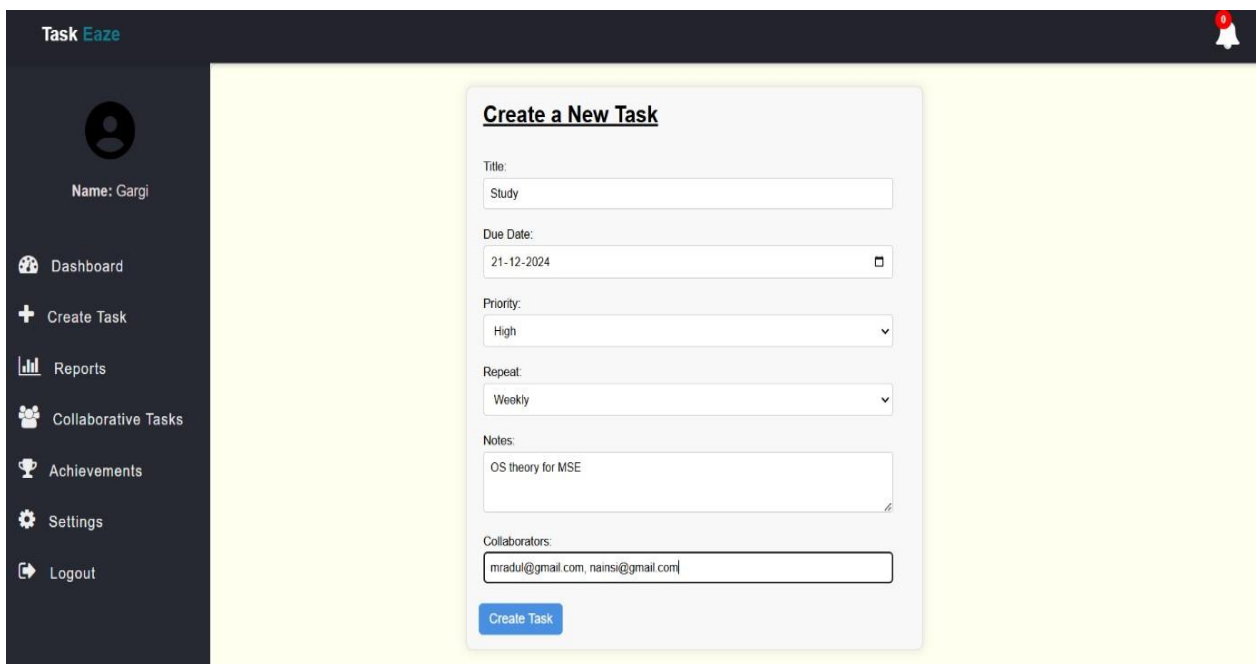


Fig – 6.5

Reports:

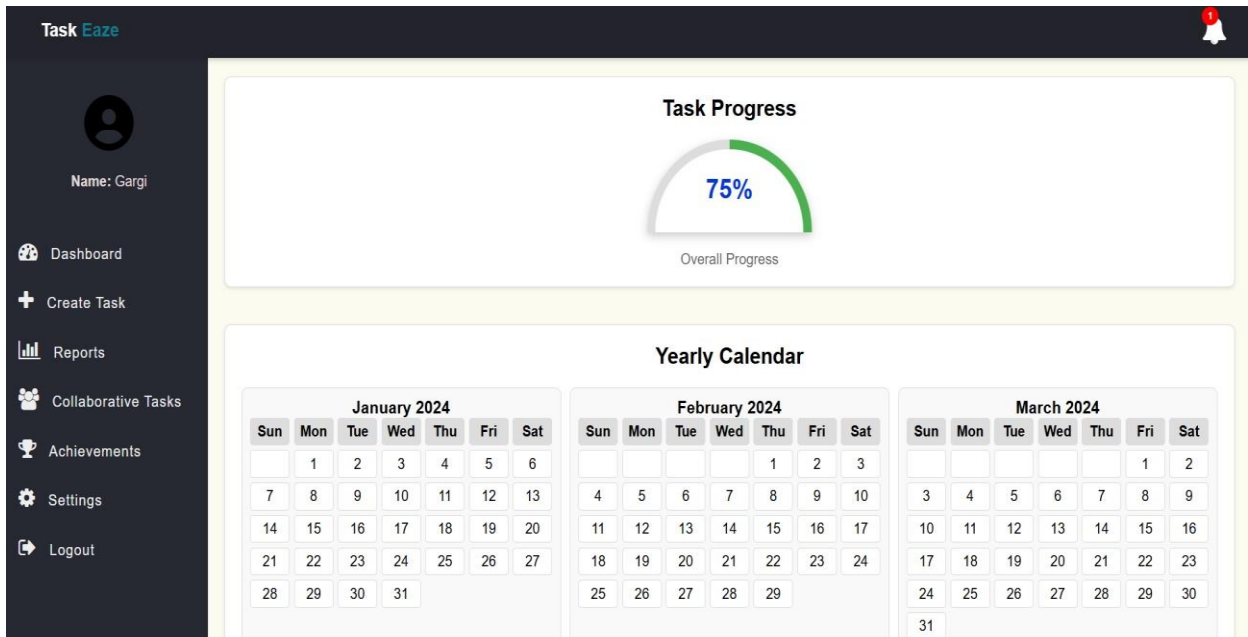
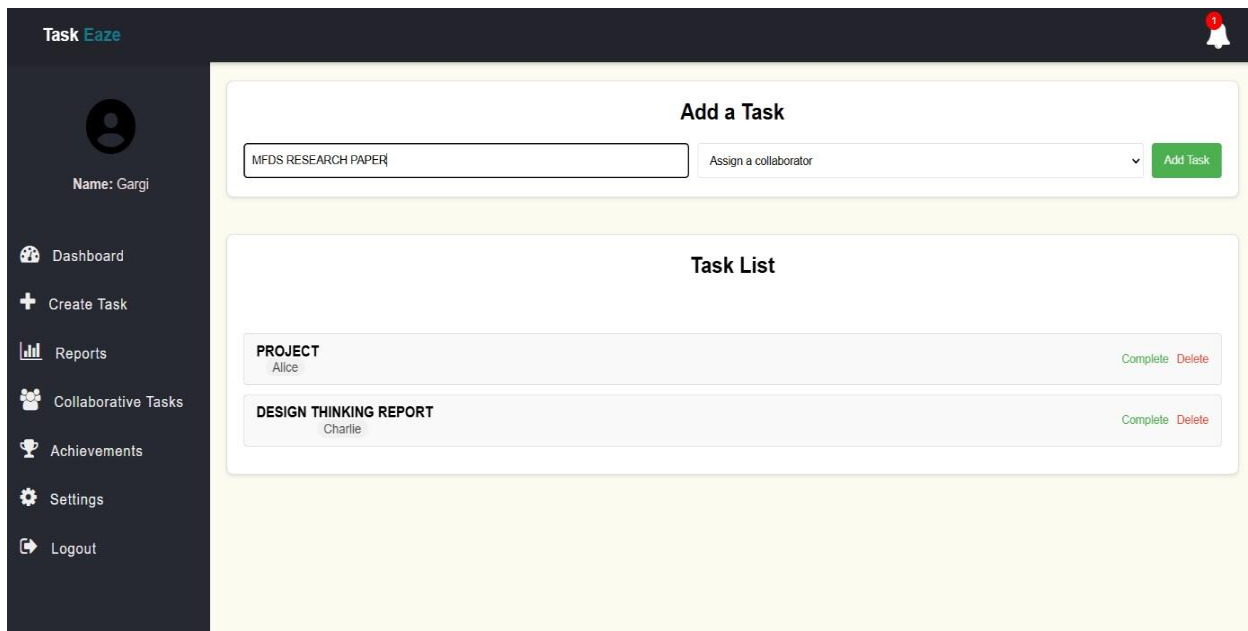


Fig – 6.6

Collaborative tasks:



The dashboard for 'Task Eaze' shows a user profile for 'Gargi' on the left sidebar. The main content area features an 'Add a Task' section with a text input field containing 'MFDS RESEARCH PAPER', a dropdown menu for 'Assign a collaborator', and an 'Add Task' button. Below this is a 'Task List' section displaying two tasks: 'PROJECT' by Alice and 'DESIGN THINKING REPORT' by Charlie, each with 'Complete' and 'Delete' buttons. The sidebar includes navigation links for Dashboard, Create Task, Reports, Collaborative Tasks, Achievements, Settings, and Logout.

Add a Task

MFDS RESEARCH PAPER

Assign a collaborator

Add Task

Task List

PROJECT
Alice

Complete Delete

DESIGN THINKING REPORT
Charlie

Complete Delete

Fig – 6.7

Achievements:

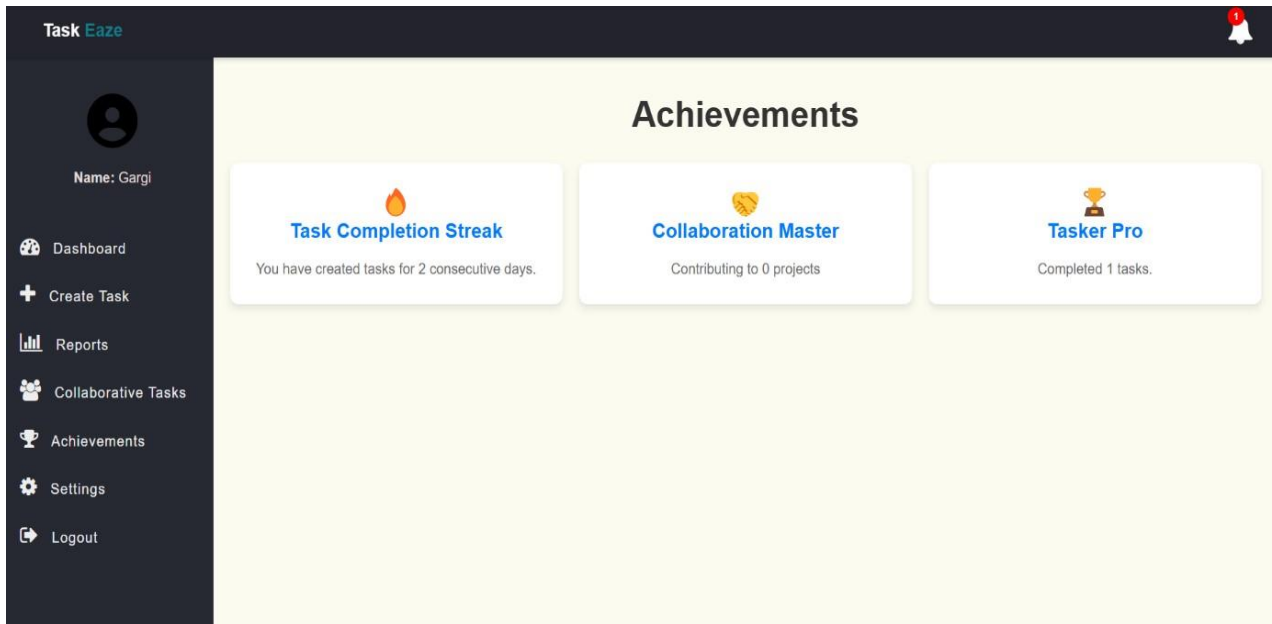


Fig – 6.8

Setting:

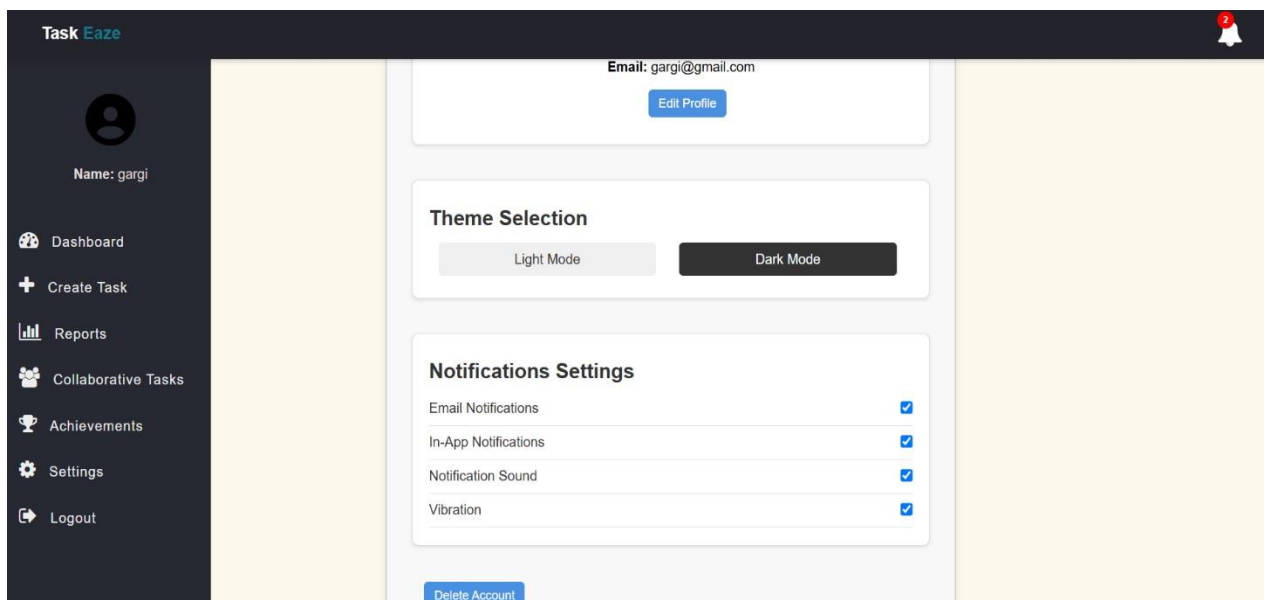
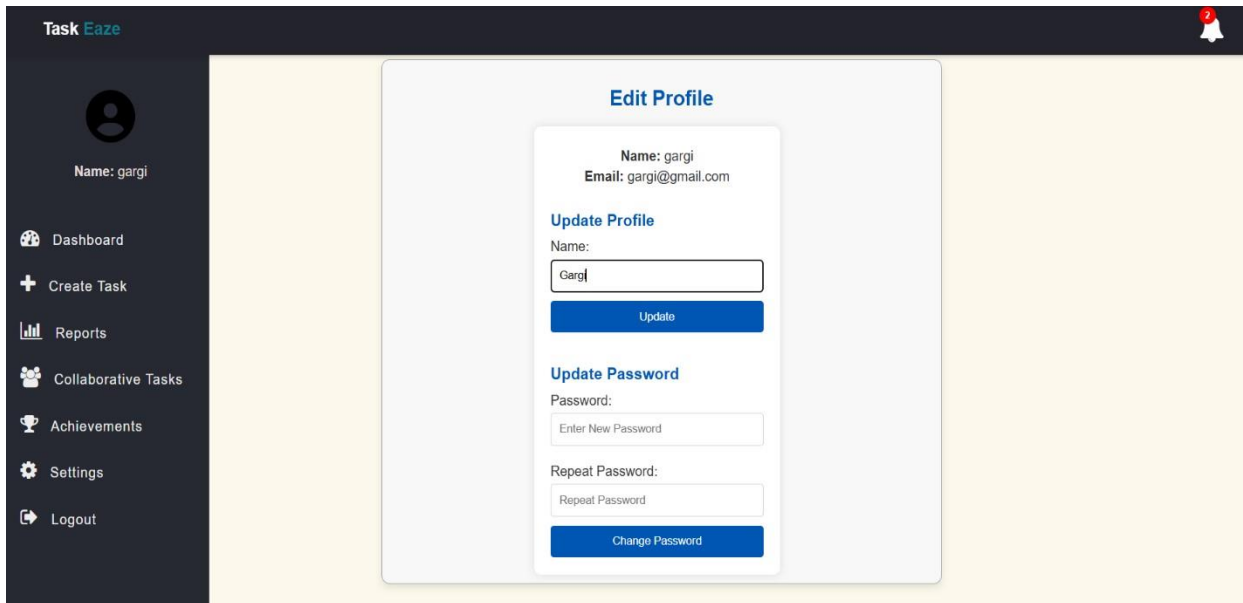


Fig – 6.9

Profile customization:



The screenshot shows the 'Task Eaze' application interface. On the left is a dark sidebar with a user profile section showing 'Name: gargi' and a list of menu items: Dashboard, Create Task, Reports, Collaborative Tasks, Achievements, Settings, and Logout. The main content area has a light yellow background and features a central 'Edit Profile' form. The form is titled 'Edit Profile' and displays the user's current 'Name: gargi' and 'Email: gargi@gmail.com'. It contains two sections: 'Update Profile' with a 'Name' input field (containing 'Gargi') and an 'Update' button; and 'Update Password' with 'Password' and 'Repeat Password' input fields (both containing placeholder text) and a 'Change Password' button. A notification bell icon with a red '2' is in the top right corner of the header.

Task Eaze

Name: gargi

Dashboard

Create Task

Reports

Collaborative Tasks

Achievements

Settings

Logout

Edit Profile

Name: gargi
Email: gargi@gmail.com

Update Profile

Name:

Update

Update Password

Password:

Repeat Password:

Change Password

Fig – 6.10

REFERENCES

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