



TEAM HAWK

PROJECT REPORT

TO-DO LIST APPLICATION

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Chapter 1: Introduction

1.1 System Overview

The To-Do List Application is a user-friendly software system designed to help individuals manage their tasks efficiently. It allows users to add tasks, view their list of tasks, search for specific tasks, mark tasks as completed, delete tasks, and review completed or deleted tasks. The system provides users with the ability to track their work and manage their daily activities seamlessly. Users can also view the date and time, as well as perform different operations on the tasks such as searching, marking them as completed, and deleting them.

1.2 Why We Develop This System?

This system was developed to address the need for task management, enabling users to organize their day-to-day responsibilities effectively. It helps users keep track of their pending tasks, monitor progress by marking tasks as completed, and manage their tasks by adding, deleting, and searching for specific tasks. In addition, the system is built to work as a simple, yet powerful tool to assist in time management and productivity improvement.

Chapter 2: Stakeholders

2.1 What is a Stakeholder?

A stakeholder is any individual, group, or entity that has an interest in the outcome of a project. Stakeholders can be internal or external to the development process and can influence the design, functionality, and success of the system. Stakeholders can include users, developers, administrators, and others who are impacted by the system's use.

2.2 Who are the Stakeholders for this System?

The stakeholders for the To-Do List Application include:

- End Users: Individuals who will be using the system to manage their tasks. These users may include students, professionals, and anyone who needs to keep track of their tasks and deadlines.
- Developers: The individuals or teams responsible for creating, maintaining, and improving the application.
- Admins: Users who may have additional privileges, such as managing system configurations, handling user accounts, or troubleshooting the application.
- Project Managers: Those who oversee the development and ensure the system is aligned with user needs and requirements.

Chapter 3: Requirement Analysis

3.1 What is Requirement Analysis?

Requirement analysis is the process of determining the functionalities and constraints of the system that are necessary for the system to meet the needs of its stakeholders. This analysis helps in understanding the expectations and requirements of the users and guides the development team in creating a system that fulfills those requirements.

3.2 Functional Requirement Table for This System

Functional Requirement

Description

User Login

Users must provide an email and a password to log in.

Add Task

Users can add tasks by entering task descriptions.

View Tasks

Users can view a list of all tasks along with their completion status.

Search Task

Users can search for a task based on keywords or descriptions.

Mark Task as Completed

Users can mark tasks as completed, with a status update.

View Completed Tasks

Users can view a list of tasks that have been marked as completed.

Delete Task

Users can delete a task from the list.

View Deleted Tasks

Users can view a list of tasks that have been deleted.

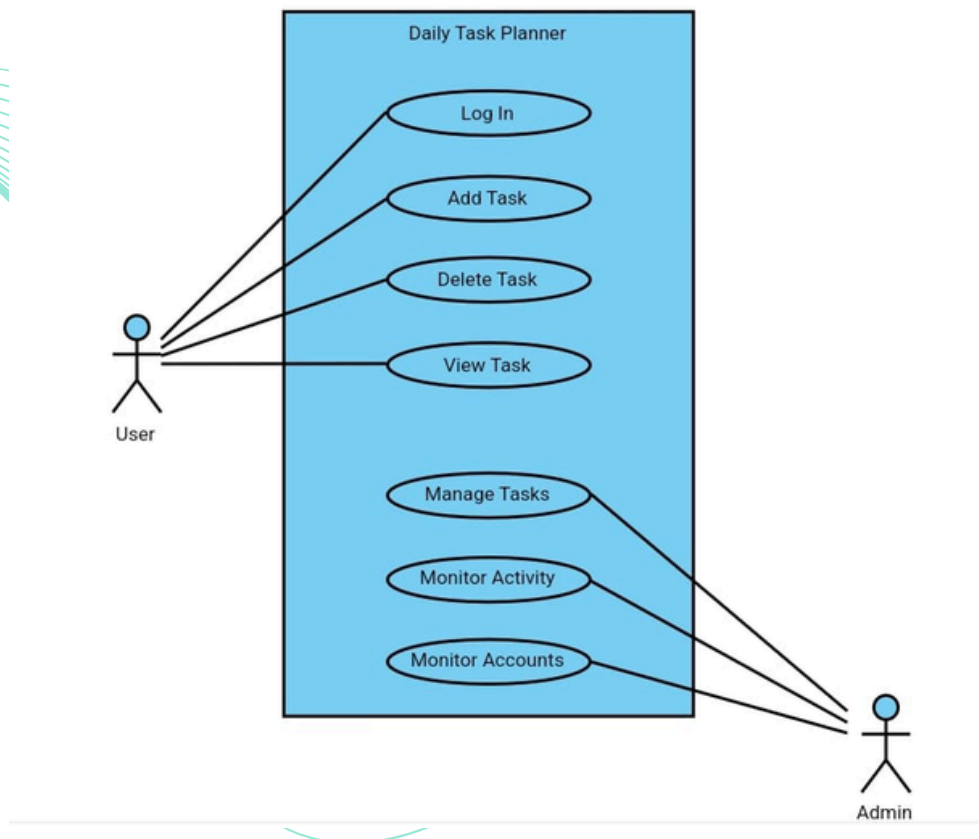
Date & Time Display

The system shows the current date and time for reference.

-

Chapter 4: Use Case Diagram

This chapter presents the use case diagram for the To-Do List Application, highlighting interactions between users and the system. Primary users manage tasks, while admins oversee accounts and configurations.



Use Case Diagram:

- **Actors:**
- **End User:** Adds, views, deletes, and marks tasks.
- **Admin:** Manages user accounts, monitors activity.

Use Cases:

- **Log In:** Users authenticate themselves.
- **Manage Tasks:** Includes adding, viewing, deleting, and marking tasks.
- **View Completed Tasks:** View tasks that have been marked as completed.
- **View Deleted Tasks:** View tasks that have been deleted.

Chapter 5: Feature Description

Registration Form

```
-----  
Registration Form  
-----  
  
Enter your email: user@example.com  
  
Password requirements: Minimum 8  
characters, including one letter,  
one digit, and one uppercase letter  
  
Enter Password:  
*****  
  
-----  
Successfully created an account!  
-----  
Email -> user@example.com  
Password -> *****
```

Main menu

```
To-Do List Application:  
Date: Wed Dec 11 2024  
  
1. Your current tasks  
2. Add new task  
3. Search  
4. Mark task as completed  
5. All completed task  
6. Delete a task  
7. All deleted task  
8. Exit  
  
Enter your choice:
```

Add a new task

```
Write a new task: Finish the project  
  
Newly added task -> Finish the  
project (Wed Dec 11 2024)  
Enter your choice:
```

All task list

```
-----  
All task list  
-----  
  
1. Finish the project (Wed Dec 11  
2024)  
  
-----  
Enter your choice:
```

Search task

```
Please enter the task you're looking
for: project
```

```
Found 1 matching task(s):
1. Finish the project (Wed Dec 11
2024)
```

```
Want to mark again? Press 3
```

Mark as completed

```
Enter the task number to mark as
completed: 1
Completed task: Finish the project
(Wed Dec 11 2024)
```

```
Press 4 to mark again or press 1 to
see the list:
```

All completed task

```
-----
All completed task list
-----
```

```
1. Finish the project (Wed Dec 11
2024)
```

```
-----
```


Delete a task

Which number you want to delete? 1

Deleted task: Finish the project
(Wed Dec 11 2024)

You can see the deleted list task by pressing 7.

Or press 6 to delete again, press 1 to see the updated list and 2 to add the list:

Deleted task list

All deleted task list

1. Finish the project (Wed Dec 11 2024)

Press 6 to delete again or 2 to add the list:

Chapter 6: Testing Analysis for the Whole System

- **Unit Testing:** Testing individual functions such as adding tasks, deleting tasks, and searching for tasks.
- **Integration Testing:** Ensuring that all components of the system work together seamlessly, such as adding a task and then marking it as completed.
- **User Acceptance Testing (UAT):** Testing the system with real users to ensure it meets their expectations and is easy to use.
- **System Testing:** Testing the overall behavior of the system to ensure all functionalities are working as expected.

Enhancements Based on Recommendations

- The user can not see what they are typing when entering the password.
- Password requirements and email verification alerts should be displayed only once.
- The current date must be displayed dynamically.
- When adding a task, the date should also be displayed.
- Work with the local time for all features.

Chapter 7: Conclusion

7.1 Good Features

- The To-Do List Application is an effective and easy-to-use system that offers great functionalities for task management. It allows users to view, search, mark as complete, and delete tasks. The integration of real-time date and time display enhances the user experience, and the ability to view completed and deleted tasks provides better task tracking.

7.2 Limitations of Our System

- The system lacks advanced features such as notifications or reminders for tasks.
- The interface is relatively simple and may not support users who need more complex task management features.
- It does not support collaborative task management.

7.3 Future Enhancement

- **Integration with Calendar:** Allow users to set deadlines and reminders for tasks.
- **Include database**
- **Mobile Application:** Develop a mobile version of the application for better accessibility and use on the go.
- **Push Notifications:** Notify users about upcoming tasks or deadlines.

This report provides an overview of the To-Do List Application, from its initial requirements to its design, functionality, and testing. The system serves as an efficient tool for individuals to manage their tasks effectively.