

**Project Report  
on  
Minor Project**

**BACHELOR OF COMPUTER  
APPLICATIONS (BCA)**

**Submitted by:**

**Riaz Mohammad**

**(Roll No: 24/SCA/BCA(AI&ML)/39)**

**&**

**Pratyansh**

**(Roll No: 24/SCA/BCA(AI&ML)/52)**

**Under the Supervision of:**

**School of Computer Applications  
Manav Rachna International Institute  
of Research and Studies Sector-43,  
Aravalli Hills, Faridabad – 121001**

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## **Declaration**

**I do hereby declare that this project work  
entitled “My Minor Project Report”  
submitted by me for the partial fulfillment  
of the requirement for the award of  
BACHELOR OF COMPUTER  
APPLICATIONS (BCA) is a record of my  
own work. The report embodies the  
findings based on my study and  
observation and has not been submitted  
earlier for the award of any degree or  
diploma to any Institute or University.**

**Signature**

**Name: Riaz Mohammad**

**Pratyansh**

**Roll No: 24/SCA/BCA(AI&ML)/39**

**Roll No: 24/SCA/BCA(AI&ML)/52**

**Date: 15**

# Acknowledgement

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## **INTRODUCTION**

**This report details the design and implementation of a minor project: a Task Management System developed using Python. In today's fast-paced environment, effective organization and prioritization are essential for both personal productivity and team efficiency. Task management tools serve as crucial aids by providing a structured digital environment to define, track, and complete required activities.**

# Purpose & Objectives

## Why build this?

Because productivity suffers when tasks are unorganized. A simple application can make a noticeable difference in efficiency.

## Core Objectives

- Build a responsive task-tracking system
- Allow users to create, edit, update and delete tasks easily
- Store tasks permanently using browser storage
- Keep the UI clean, fast and beginner-friendly

## Learning Goals

- Improve practical coding & debugging skills
- Understand state flow and rendering behavior
- Build something real that solves an everyday problem

## Technologies Used

- Frontend -HTML, CSS, JavaScript, python
- Data Storage - localStorage
- Version Control - Git + GitHub
- Deployment - GitHub Pages

# System Overview

The application follows a simple yet effective structure:

User → Creates Task → Task gets stored → UI updates instantly → User tracks progress

## Key Features

- ❖ Add task with description
- ❖ Mark task as completed
- ❖ Edit tasks anytime
- ❖ Delete tasks if unnecessary
- ❖ Uses localStorage — data never disappears on refresh

# System Design

When designing the application, I wanted the user experience to feel fast and smooth.

A task should take *seconds* to enter, not minutes.

## So I structured the UI like this:

- A clear input area to enter a task
- A list view showing all tasks
- Buttons for `edit`, `delete`, `mark complete`

- Completed tasks visually look different (strikethrough or faded)
- Data saves automatically without asking the user

## Implementation Summary

I began by setting up the interface — a task input box and display container.

Once the UI skeleton was ready, I implemented logic for:

### 1. Adding a Task

A new object pushes into an array → stored in localStorage  
→ rendered live.

### 2. Editing a Task

Fetch task → update text → save again → re-render everything.

### 3. Marking as Completed

Toggle `status = done` → change display style → saved permanently.

### 4. Deleting a Task

Remove object from list → update storage → refresh UI.

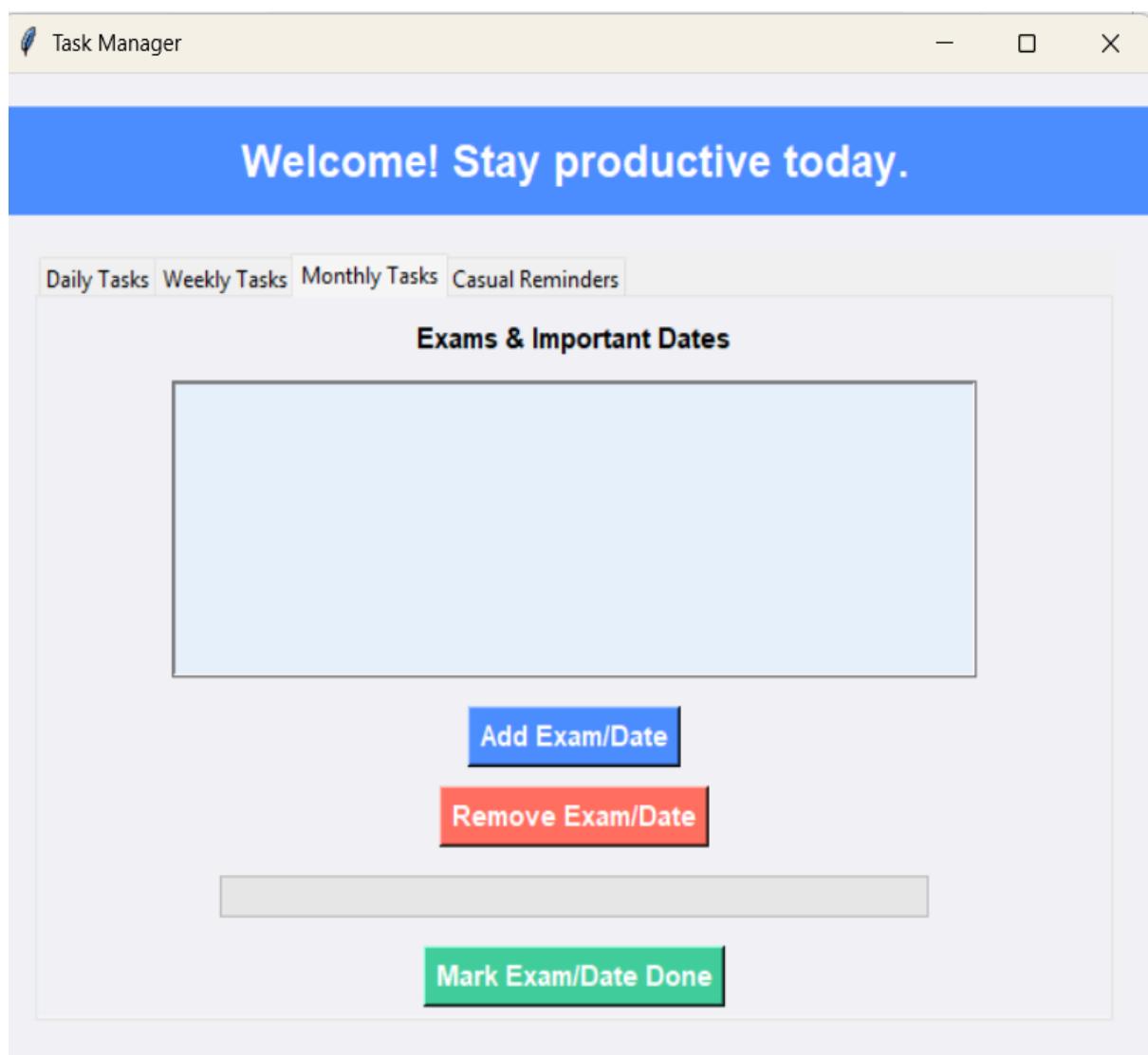
Every update is instant — no reload needed.

## Testing & Observations

### 1. Add Task - Successfully stored & displayed

2. Edit Task - Updates correctly in interface & storage
3. Delete Task - Task disappears immediately
4. Refresh Browser - Data remains — localStorage works perfectly
5. Multiple Edits - No conflicts or overwrites

## Input/Output Form Design



# Welcome! Stay productive today.

Daily Tasks Weekly Tasks Monthly Tasks Casual Reminders

**Drink 5L Water**

Add 0.5L

**Walk 10,000 Steps**

Add 500 Steps

Task Manager

## Welcome! Stay productive today.

Daily Tasks Weekly Tasks Monthly Tasks Casual Reminders

### Assignments

assignment 1 (Due: 2025-12-15 00:00, Added: 2025-12-04 16:34)  
assignment 1 (Due: 2025-12-19 00:00, Added: 2025-12-04 16:35)

Add Assignment

Remove Assignment

Mark Assignment Done

Task Manager

## Welcome! Stay productive today.

Daily Tasks Weekly Tasks Monthly Tasks Casual Reminders

### Casual Reminders (Birthdays, etc.)

19 (On: 2025-12-19 00:00, Added: 2025-12-04 16:35)

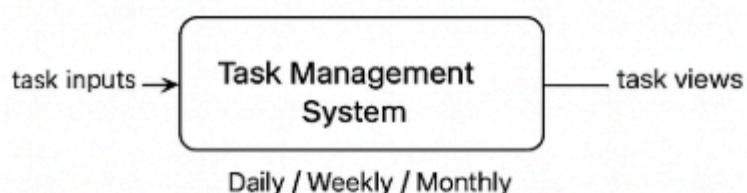
Add Reminder

Remove Reminder

Mark Reminder Done

# DFD Figure

LEVEL 0 DFD



LEVEL 1 DFD



LEVEL 2 DFD



## Future Upgrades

I plan to enhance this application further with:

- Notifications & remainder alerts
- Calendar view integration
- Cloud sync & login system
- Task analytics (productivity graph)
- Mobile app version using React Native
- Dark mode, drag-and-drop sorting, voice add command

## Bibliography

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4. Your GitHub Project Repository. *Task Manager App Source Code — Development, Logic & UI Implementation*.
5. Link: [github.com/Riaz1909/task-manager-app](https://github.com/Riaz1909/task-manager-app)

