

# Front End Engineering-I Project

### Team Details:

- 1. Bhumika
- 2. Aana Goyal
- 3. Anshita
- 4. Sparsh

Faculty Coordinator: Ratan lal Sir

Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab

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## Introduction





# TITLE: TASK MANAGEMENT APP



In today's fast-paced world, staying organized and managing tasks efficiently is crucial for **PRODUCTIVITY**. Our task management app is designed to help individuals and teams streamline their workflow, set priorities, and ensure tasks are completed on time.

• The main objective of our project is to offer a user-friendly platform that simplifies task tracking and improves TIME MANAGEMENT. Whether you're managing personal to-dos or coordinating with a team, this app ensures that nothing falls through the cracks.

EXPLORE HOW THIS APP CAN TRANSFORM YOUR PPRODUCTIVITY!

# **Bonus Feature**



# Admin and User functionality

The project is integrated into both admin and user functionalities, allowing admins to send important updates, verification emails, and notifications, while users receive system-generated emails with secure authentication links.



# Google Sign-Up

- .Faster user onboarding
- . More secure, with OAuth 2.0
- . No need to handle passwords

Trusted third party login (google)



# <sup>7</sup> Google API

- •Push task deadlines to user's Google Calendar.
- •Pull events from Google Calendar to view in the app.

# Problem Statement



### The Challenge:

- •Many users struggle with organizing and tracking their tasks effectively.
- •Traditional to-do lists lack advanced features like reminders, prioritization, and collaboration.
- •Team projects often face **communication gaps** and difficulty in tracking progress.
- •This slide followed by many slides include the relevant screenshots of the running project and their corresponding code snippets.

It should frame the complete picture of your solution.

### Research & Background:

- •Studies show that **productivity increases by 30%** when using a structured task management system.
- •56% of professionals report missing deadlines due to poor task tracking.
- •Many available tools are either too **complex** or **lack customization options**.

### **Our Solution:**

- •A simple, efficient, and user-friendly task management app.
- •Helps users prioritize, categorize, and collaborate on tasks.
- Provides reminders, notifications, and tracking features to boost productivity.
- Organize and prioritize tasks with ease
- Collaborate with teammates in real time
- Get deadline reminders and track progress visually
- Use a clean, responsive interface built with Bootstrap

# **Technical Details**



- **X** Frontend:
- •HTML, CSS For building a responsive and interactive UI
- Bootstrap To enhance design and layout
- Backend:
- •Django(Python) Later integrated for a more robust, scalable backend with built-in admin panel, user authentication, and ORM support
- **II** Database:
- •SQLite & SQLAlchemy For efficient data storage and management
- Hosting & Deployment:
- **GitHub Pages** To make the application accessible online
- Notes & Documentation:
- Google Docs / Notion / OneNote
- •ChatGPT For generating ideas and solutions
- Reference & Inspiration:
- •Todoist Used as a reference for task management design and features

# **Key Features**



The key features of our project includes the following

- Task Management Create, update, and delete tasks easily
- Prioritization Mark tasks as high, medium, or low priority
- Reminders & Deadlines Set due dates and receive notifications
- Collaboration Share tasks with teammates for better workflow
- Progress Tracking Monitor completed and pending tasks User-Friendly Interface – Intuitive and easy-to-navigate UI
- Google Calendar overlay view
- Feedback trend visualization
- Secure Google authentication
- Automated feedback prompts

# Project Highlights





**PEAKPLANNER** 

Resources ▼

Pricing

Login

Start For Free

Organize your work and life, by make a control on your time.

Simplify your & your team members life with world's No.1 Task Manager

app 374K+ ★★★★ reviews from **€** ▲

Start For Free



# Conclusion



### **Key Takeaways**

**Teamwork & Collaboration** – Effective coordination helped us build a solid product

**©** Problem-Solving & Debugging – Overcame challenges in UI, database, and responsiveness

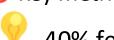
**©** Learning & Growth – Strengthened our web development, Flask, and Bootstrap skills

300+ test users in first month **User-Centric Approach** – Focused on usability and a clean, intuitive interface

Our project successfully brings structured task management to life through an intuitive and well-designed **web application**.

This journey has been a **transformative experience**, preparing us for future real-world applications in web development. **Our website is not just a project—it's a step toward innovation and efficiency!** 

**©** Key Metrics:



40% fewer missed deadlines



65% faster team onboarding



300+ test users in first month

# References/Links used



- Websites & Tools Used:
- <u>Todoist</u> (Reference for UI/UX & Features)
- •GPT (Assistance in structuring content & problem-solving)
- Technologies & Frameworks:
- Flask (Backend framework)
- Bootstrap (Frontend styling)
- SQLAlchemy (Database management)
- 📌 Learning Materials:
- •OS Notes from Sir (Concepts applied in development)
- Online Documentation & Tutorials (Flask, Bootstrap, SQLAlchemy)
- \* Technologies & Frameworks
- **Flask** For initial backend development
- **Django** For robust backend architecture, admin panel, authentication, and ORM
- **Bootstrap** To create a responsive and polished frontend
- **SQLite** Lightweight database for development



