

TO - D O L I S T

Team 1

CPT-200-H41

St. Charles Community College

4601 Mid Rivers Mall Drive

Cottleville, MO 63376

February 6, 2025

PROJECT IDEA

Title:

To-Do List Web App

Many people find it difficult to properly manage their daily responsibilities, which results in procrastination, missed deadlines, and decreased productivity. While they aid in organization, traditional to-do list applications don't offer individualized advice.

We want to develop a to-do list web application that maximizes task management and boosts user productivity by combining statistical analysis with AI-based suggestions.

SYSTEM COMPONENTS

- Front-End Website coded in Visual Studio Code
- (HTML, CSS, PHP)
- Back-End Cloud Database coded in Oracle's free cloud database
- (SQL and Python)
- Google's Artificial Intelligence (AI) Application Programming Interface (API)

SYSTEM COMPONENTS

Requirements for the Design:

- User Verification (Login, Register, Password Reset)
- Task Management (adding ,editing, deleting, and marking as finished)
- AI support (reminders, task prioritizing suggestions)
- Statistical Analysis and Reports (Rates of daily, weekly, and monthly job completion, average amount of time needed to do activities)
- Visualization of data (charts, graphs, and productivity reports)

CUTTING-EDGE TECHNOLOGY

- **Summary:** AI assistant that makes suggestions for the user's schedule/ to-do list.
- **Smart Recommendations:** Suggests optimal bedtimes, task prioritizing, and breaks based on user habits.
- **Personalized Insight:** Analyzes task completion and time management trends to provide tailored advice.
- **Adaptive Learning:** Improves suggestions over time by learning user preferences and outlines.
- **Proactive Productivity:** Transforms the app into a smart tool to help users achieve goals and maintain balance.

PROJECT PROPOSAL

1. INTRODUCTION

- Title:

To-Do List Web App

- Objective:

To create a web application that uses statistical analysis of users' productivity and AI-based recommendations to help users effectively manage their daily responsibilities. We want users to be able to create and manage tasks, receive AI recommendations and productivity reports.

2. Client Operations

The To-Do List Web Application is designed to provide users with a seamless and intelligent task management experience. End-users will be able to interact with the application in the following ways:

User Verification:

- Users will register with their email address and create a password to set up an account.

Task Management:

- Users can easily add, edit, delete and mark tasks as completed.

Statistical Analysis and Reports:

- Users will have access to detailed productivity reports, including daily, weekly, and monthly task completion rates.

Proactive Productivity:

- The app will act as a personal productivity assistant, helping users achieve their goals and maintain a healthy work-life balance.

3. Executive Summary

This To-Do List Web Application is going to focus on the statistical analysis and AI-based recommendations to enhance user productivity. The goal is to provide users with an intuitive platform to create, manage, and track tasks, while also receiving personalized insights and recommendations to improve their daily efficiency.

4. COST SUMMARY

Feature	Estimated Time	Estimated Cost	Comments
Frontend Development	6 hours	\$180.00	
CSS Styling	2 hours	\$60.00	
Python Functionality	6 hours	\$180.00	
Backend Development	8 hours	\$240.00	
Integrating Backend and Frontend	8 hours	\$240.00	
TOTAL	30 hours	\$900.00	

5. Terms and Conditions:

- You will not use our service to plan or coordinate any illegal activity, we actively work with law enforcement, and you will face consequences if we find you planning to do anything that violates U.S. Law.
- By agreeing, you agree that you have given us consent to track your location, this data is only used to enhance the app experience and nothing else.
- We reserve the right to revoke your service for any reason.
- You will not abuse our app for bullying or harassment, we take this very seriously and have little tolerance for it. Legal consequences will be involved if any applicable laws are broken.

6. CONTACT INFORMATION

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STATEMENT OF WORK

- Introduction- Team 1 will design an innovative to-do list helps the user prioritize their list and suggest tasks based off their routine.
- Scope- Team 1 will develop and configure back-end and front-end code to successfully implement this to-do list.
- Period of performance- This project will take place from the start date of February 1, 2025 and end on May 12, 2025.
- Place of performance- Work will take place on scheduled meetings (every Monday after class via in person and every Thursday at 6pm via zoom).
- Work requirements- All team members will participate in the development of the web-based application.
- Acceptance Criteria- All team members will review work and make comments when needed. Project manager will review/accept all work before deadline and communicate when needed.

MILESTONE LIST

Item	Description	Start Date	End Date	Deliverable	Comments
1	Form team to begin project	01/30/2025	02/01/2025	Team formed	N/A
2	Finish phase 1 and turn it in	02/03/2025	02/09/2025	Completion of phase 1	Communicate w/ team members
3	Finish phase 2 and turn it in	2/09/2025	03/09/2025	Completion of phase 2	Continue communication
4	Finish phase 3 and turn it in	3/09/2025	3/13/2025	Completion of phase 3	Continue communication
5	Finish phase 4 and turn it in	3/13/2025	4/13/2025	Completion of phase 4	Continue communication
6	Complete project	04/13/2025	05/04/202	Finish project	Continue communication
7	Present project	05/04/2025	05/12/2025	Final presentation	Close out project

PLANNED FUTURE WORK

1. Create the web page.
2. Create the database.
3. Successfully link the information stored in the database to the website.
4. Use Google's API to set up the code for the AI.
5. Implement the AI into the app.
6. Fully debug and fix any potential bugs left in the program

CPT-200-H41 TO DO LIST IDEAS



Add an AI assistant that gives the user suggestions on what to do based off their usual habits and routine



Use Google Maps API to give locations of plans outside of home



Have app advise user to not continue with out of home plans if there are poor weather conditions present like hurricanes or slick roads



Have app warn user that some plans that they think of may not be possible on federal holidays like President's Day or Memorial Day



Have user set priorities set on certain plans that are more important than others and give off more intense notifications when they are close, High priority plans like Studying for a test, and Low priority plans like getting fast food.