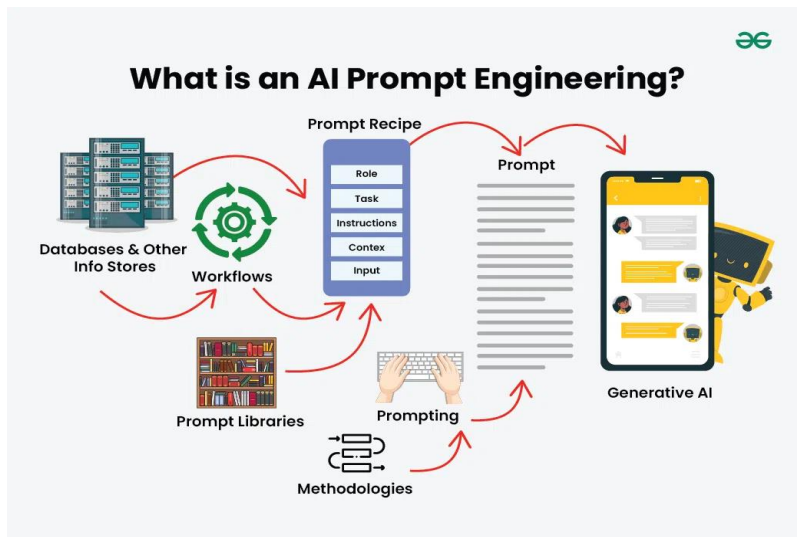


# EXPRIMENT-7

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## Developing a Prompt-Based Application for Daily Task Organization Using ChatGPT



With the rapid advancements in large language models (LLMs), such as ChatGPT, there is an exciting opportunity to develop prompt-based applications that enhance creativity and practical problem-solving skills. This document demonstrates how to create a prompt-based application tailored for organizing daily tasks. We explore a progression from simple to advanced prompt designs and showcase their corresponding outputs.

### 1. Introduction to Prompt-Based Applications

Prompt-based applications rely on carefully crafted inputs (prompts) given to language models like ChatGPT to produce useful outputs. These applications can automate, augment, and optimize tasks in various domains.

Organizing daily tasks is a practical problem many face. Using prompt-based solutions can help individuals plan, prioritize, and review their workflows efficiently.

## 2. Objective

To build a prompt-based application using ChatGPT that:

- Allows users to input their daily tasks.
- Generates an organized and prioritized daily plan.
- Provides suggestions for improving productivity.
- Demonstrates advancement from simple to complex prompt designs.

## 3. Prompt Designs and Examples

### 3.1 Simple Prompt Design

The simplest prompt allows users to input a list of tasks for the day, and ChatGPT outputs a basic, unordered task list.

User input:

"Here are my tasks for today:

- Buy groceries
- Finish the report
- Call Alice
- Workout"

Prompt to ChatGPT:

"Please list the following tasks in a simple bullet format without any prioritization."

ChatGPT output:

- Buy groceries
- Finish the report
- Call Alice
- Workout

### 3.2 Intermediate Prompt Design: Task Prioritization

To make the application more useful, the prompt can ask ChatGPT to organize tasks based on urgency and importance.

Prompt to ChatGPT:

"Given the following tasks, please categorize and prioritize them into High, Medium, and Low priority based on typical urgency and importance."

User input:

- Buy groceries
- Finish the report (due tomorrow)
- Call Alice (to discuss weekend plans)
- Workout

ChatGPT output:

High Priority:

- Finish the report (due tomorrow)

Medium Priority:

- Buy groceries

Low Priority:

- Call Alice (to discuss weekend plans)
- Workout

### 3.3 Advanced Prompt Design: Time Management and Recommendations

At the most advanced level, the prompt encourages ChatGPT not only to prioritize but also to allocate time slots and suggest productivity techniques.

Prompt to ChatGPT:

"Using the tasks listed, create a daily schedule allocating approximate time durations and include productivity tips for each task."

User input:

- Finish the report (due tomorrow, estimated time: 3 hours)
- Buy groceries (1 hour)
- Call Alice (30 minutes)
- Workout (1 hour)

ChatGPT output:

9:00 AM - 12:00 PM: Finish the report

Tip: Use the Pomodoro technique to maintain focus with 25-minute intervals and 5-minute breaks.

12:00 PM - 1:00 PM: Buy groceries

Tip: Create a shopping list beforehand to avoid unnecessary browsing.

1:00 PM - 1:30 PM: Call Alice

Tip: Prepare key points to discuss to keep the call concise.

1:30 PM - 2:30 PM: Workout

Tip: Combine cardio and strength exercises for best use of time.

## 4. Application Development Framework

To implement the application, the workflow includes:

1. **User Interface:** A simple input form allowing users to list tasks and select the desired complexity level (Simple, Intermediate, Advanced).
2. **Prompt Construction:** Based on user selection, construct the corresponding prompt dynamically incorporating the user's task list.
3. **Interaction with ChatGPT API:** Send the constructed prompt and retrieve responses.

4. **Output Presentation:** Display the output clearly with categories, time slots, or recommendations as returned by the model.

## 5. Study Table: Comparison of Prompt Designs

Aspect	Simple Prompt	Intermediate Prompt	Advanced Prompt
Input	List of tasks	List of tasks + instructions to prioritize	List of tasks + time estimates + scheduling request
Output	Unordered task list	Tasks categorized by priority	Timed schedule + productivity tips
Complexity	Low	Medium	High
User Benefit	Basic organization	Improved prioritization	Complete time management and productivity guidance

## 6. Example Application Usage

Consider a user named Emma who wants to organize her tasks. Below are screenshots demonstrating the app in action:

Figure 1: Simple prompt output showing unordered task list. Figure 2: Intermediate prompt output with prioritized tasks. Figure 3: Advanced prompt output with daily schedule and productivity tips.

## 7. Benefits and Practical Implications

Developing prompt-based applications with ChatGPT offers several advantages:

- **Enhances Creativity:** Users can experiment with different prompt styles for customized outputs.
- **Practical Problem-Solving:** Provides structured solutions to common organizational problems.
- **Scalability:** Easily expandable to other domains such as project management or study planning.
- **User Empowerment:** Encourages users to reflect on their tasks and improve productivity.

## 8. Conclusion

This demonstration showed how to leverage ChatGPT's capabilities to build a prompt-based application tailored for organizing daily tasks. By gradually enhancing prompts from simple listings to detailed schedules with personalized recommendations, users gain increasing value and practical assistance. The modular nature of prompt design ensures adaptability to varied personal needs, fostering creativity and effective problem-solving.

Future enhancements could include integrating calendar APIs, real-time collaboration features, or voice inputs, further enriching the user experience and organizational efficiency.