Expt No. 7 – Prompt-Based Application Development Using ChatGPT & Loveable AI

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AIM

To develop a prompt-based application using ChatGPT and Loveable AI, demonstrating how large language models can be used to create an interactive personal productivity assistant. This experiment shows how a properly engineered prompt can generate a functional website prototype that manages tasks, schedules reminders, offers wellness tips, and responds to general queries.

AI TOOLS REQUIRED

- ChatGPT
- Loveable AI (Website Generator)
- Laptop/PC/Smartphone with Internet
- Screenshot Tool

EXPLANATION

Large Language Models (LLMs) can understand instructions and generate structured outputs such as text, interfaces, and even websites. In this experiment, prompt engineering is used to design a **Personal Productivity Assistant website** using **Loveable AI**.

The system consists of:

- A **Daily Task Manager** to add and view tasks
- A **Smart Scheduler** to set reminders and appointments
- A **Wellness Tips** section providing health suggestions
- A **General Query Box** to interact naturally with the assistant

This experiment demonstrates:

- How prompts can control AI behavior
- How AI can generate user interfaces
- How LLMs can support productivity and wellness
- How prompt refinement leads to improved output quality

PROMPT USED IN LOVEABLE AI

Copy-pasted into Loveable AI:

**"Create a simple interactive website for a Personal Productivity Assistant.
The website should have the following sections:

1. Daily Task Manager – where users can add, delete, and view tasks.
2. Smart Scheduler – a section to set reminders or events with date and time inputs.
3. Wellness Tips – display one random wellness tip each time the page loads.
4. General Query Box – a text input where users can ask simple queries.
   Design the site with a clean layout, soft colors, and easy navigation. The assistant should interact using natural language and the entire site should look like a prototype for an AI-powered productivity assistant."**

PROCEDURE

1. **Understanding Requirements**
   Identified the need for four major modules:
   - Task Manager
   - Scheduler
   - Wellness Suggestions
   - Query Assistant
2. **Forming a Detailed Prompt**
   Designed a prompt describing layout, features, and interaction style.
   Ensured clarity so Loveable AI could generate the correct web interface.
3. **Using Loveable AI**
   - Opened Loveable AI interface.
   - Entered the prepared prompt into the input prompt box.
   - Allowed the AI to generate the website layout and functionality automatically.
4. **Reviewing Output**
   - Observed the generated webpage structure.
   - Checked if all sections (tasks, scheduler, wellness tips, query box) were included.
   - Evaluated alignment, colors, and usability.
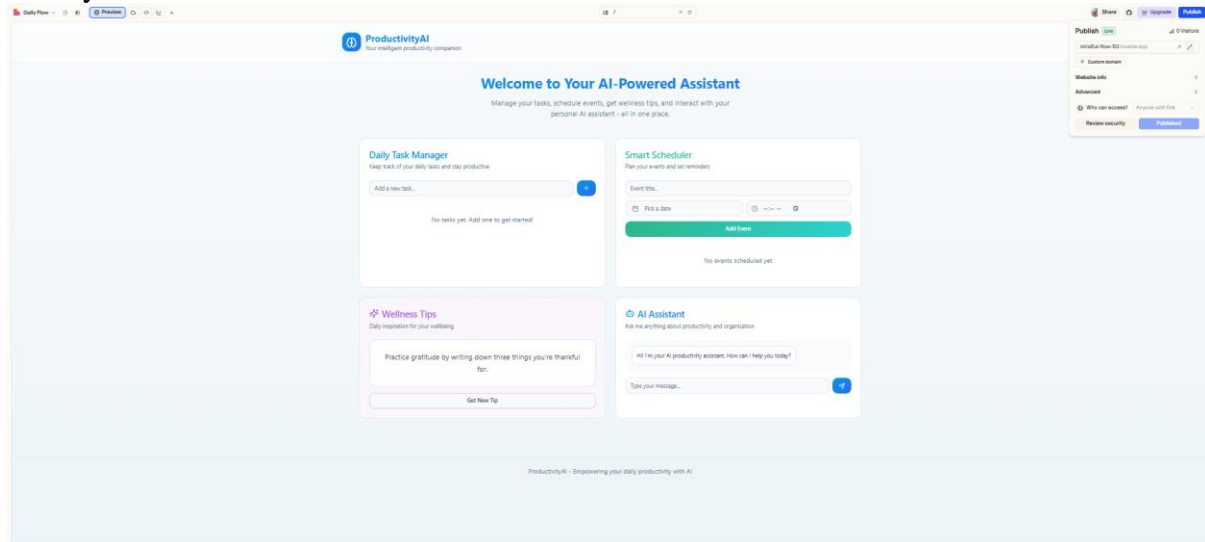5. **Taking Screenshot**
   Captured the generated website as proof of output.

6. **Documenting Results**
   Inserted the screenshot into the "Expected Output" section of the lab record.
   Wrote conclusion based on performance and usefulness of the model.

EXPECTED OUTPUT

Paste your screenshot here:

Website prototype generated by Loveable AI for Personal Productivity Assistant.

Web link : https://mindful-flow-50.lovable.app

Expected Features of the Generated Site

1. **Daily Task Manager**
   o Add tasks using input box
   o Display task list
   o Delete completed tasks
   o Organize tasks in clean layout
2. **Smart Scheduler**
   o Event title input
   o Date and time selector
   o Reminder creation
   o Simple reminder list
3. **Wellness Tips**
   o Random healthy habit displayed on page load
   o Light and motivating phrases
4. **General Query Assistant**

- Single text box for typing queries
- Displays AI-like responses or placeholders

These features demonstrate how prompts can shape AI-generated interfaces.

RESULT

The prompt-based application was successfully created using ChatGPT and Loveable AI. The experiment helped in:

- Learning how to write effective prompts
- Understanding how LLMs convert natural language into functional web interfaces
- Observing how tasks, schedules, and wellness features can be integrated using AI
- Experiencing how generative AI tools like Loveable simplify prototype development

Thus, a fully functional prototype of a Personal Productivity Assistant website was created and documented.