

Requirements Specification Phase

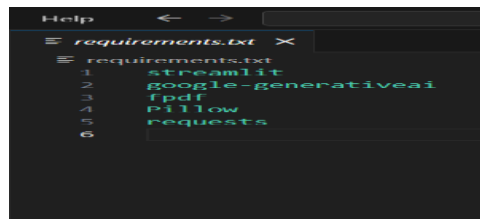
| | |
|---------------|---|
| Date | 29 january 2026 |
| Team ID | LTVIP2026TMIDS26163 |
| Project Name | Explore with AI: Custom Itineraries for Your Next Journey |
| Maximum Marks | 3 Marks |

Create a requirements.txt file to list the required libraries:

The Requirements Specification phase focuses on identifying, analyzing, and documenting the functional and non-functional requirements of the AI Travel Itinerary Generator system. During this phase, the project objectives were clearly defined, user needs were analyzed, and system features were outlined to ensure successful development.

The system is designed to help travelers generate personalized travel itineraries based on destination and trip duration. Reuirements were gathered by understanding common problems faced by travelers such as timeconsming research, lack of structured planning, and difficulty in finding reliable travel information.

Screenshot:

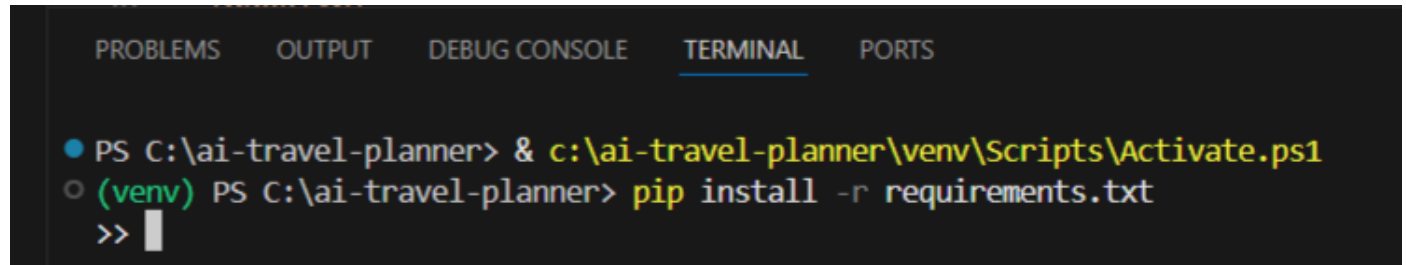


```
requirements.txt
1 streamlit
2 google-generativeai
3 fpdf
4 pillow
5 requests
6
```

Install the required libraries:

The command `pip install -r requirements.txt` is used to install all the necessary Python libraries required to run the project. The `requirements.txt` file contains a list of dependencies such as Streamlit for the web interface, the Google Generative AI library for itinerary generation, FPDF for creating downloadable PDFs, and Requests for fetching images from APIs.

By running this command, the system automatically sets up the development environment with the correct library versions, ensuring the application runs smoothly without missing dependencies.

A screenshot of a terminal window with a dark background. At the top, there are tabs labeled 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', 'TERMINAL' (which is selected and underlined), and 'PORTS'. The terminal shows a PowerShell prompt 'PS C:\ai-travel-planner>' followed by the command '& c:\ai-travel-planner\venv\Scripts\Activate.ps1'. The next line shows the prompt changed to '(venv) PS C:\ai-travel-planner>' followed by the command 'pip install -r requirements.txt'. The prompt is followed by '>>' and a cursor.

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

● PS C:\ai-travel-planner> & c:\ai-travel-planner\venv\Scripts\Activate.ps1
○ (venv) PS C:\ai-travel-planner> pip install -r requirements.txt
>> █

```