­­­­­­­­­***Superior University***

**PAI Lab task 08**

Submitted by:

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Roll No:

**SU92-BSAIM-F23-004**

Program:

**Artificial Intelligence**

Submitted to:

**Sir Rasikh**

**Explanation of the Project Files**

**1.env (Environment File)**

Holds the NASA API key to access exoplanet data.

Contains the API URL used to fetch planet details.

**2.planet\_cost\_computer.py (Main Python Program)**

A Flask web app that calculates how much it would cost to travel to different exoplanets.

Uses NASA’s API to get data about planets.

Computes the travel cost based on the planet’s distance and fuel efficiency.

Runs a local web server, allowing users to interact through a webpage.

**3.requirements.txt (Needed Libraries)**

Lists the required Python packages:

Flask → Runs the web app.

dotenv → Reads API keys from .env.

requests → Fetches data from NASA’s API.

**4.styles.css (Webpage Design)**

Makes the webpage look like outer space.

Positions Earth, planets, and a rocket.

Includes an animation that makes the rocket move when the cost is calculated.

**5.index.html (User Interface)**

The main webpage where users can choose a planet and enter fuel efficiency.

Shows the travel cost after clicking the button.

Adds an effect where the rocket moves when the cost is displayed.

**6.Images (Earth, Planet, Rocket)**

Used in the web design for a space theme to make the app look fun and interactive.This project is a **space travel cost calculator**. It lets users pick a planet, enter fuel efficiency, and see how much it would cost to travel there. The rocket animation adds an extra cool effect!