Project Charter: Python-Based Dashboard Interface using Flask

Date: 10/22/24

Project Objective: The purpose of this project is to create an intuitive, interactive dashboard/interface using Flask that incorporates key project management elements, including a project charter, work breakdown structure (WBS), statements of work (SOW), Gantt chart with a working calendar, project network diagram, critical path analysis, cost estimates, team-building exercises, and templates for status/progress reports and risk management plans.

Project Scope:

- Develop a Flask-based web application.

- Include essential project management tools and templates, such as Gantt charts, risk management plans, and SOW.

- Ensure the dashboard is user-friendly and well-designed to support team collaboration and communication.

Project Deliverables:

Flask-based web application with:

  - Project charter

  - Work breakdown structure

  - Statements of work

  - Gantt chart and working calendar

  - Project network diagram

  - Critical path analysis

  - Cost estimation module

  - Team-building exercises

  - Status and progress report templates

- Risk management plan

Project Assumptions:

- Team members will dedicate adequate time for their respective roles.

- Flask will be used as the primary web development framework.

- The project should be completed by the end of the semester.

Constraints:

- Budget for tools and resources is limited.

- All deliverables should be presented in a web-based format.

Stakeholders:

- Project Sponsor: Michael Zidar

- Project Manager: Chris Engelhardt

- Team Members: Jacob Dorow, Cooper Johnson, Mark Dsilva, Mitch Lovdal, Noah Nguyen, Nolan Worley, Matt Morris, Dilpreet Supra, Ian Listopad, Raymond Ha

Team Roles and Responsibilities:

- Chris (Project Manager): Overseeing project timelines, communication, and resource allocation.

- Jacob & Cooper (Researchers): Research best practices, frameworks, and suitable modules to use.

- Mark, Mitch, Noah (Designers): Create the user interface, wireframes, and design elements.

- Nolan, Matt, Dil, Ian, Raymond (Developers): Develop the Flask application, integrate modules, perform testing.