Project Preparation

Decision Table Editor

ECSE 458 D1/D2: Capstone Project

Fall 2023 / Winter 2024

Group 50

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1. Preparation Backlog

The preparation backlog can be found within the Sprint 0 folder in the Decision Table Editor Google Drive. It is a Google Sheet document titled “Preparation Backlog”.

2. Release Pipeline

2.1. Source Control

Github will be used for the team’s source control, including unit tests, automated acceptance tests, all code, and any documentation pertinent to the code.

2.2. Bug Tracking and Bug Prioritization Scheme

Since we are already using GitHub for version control, GitHub Issues is a natural choice for a bug tracking tool. We can create issues, assign them to team members, and label them for categorization. These labels will allow us to make use of our Bug Prioritization scheme which follows the MoSCoW method. The bugs/issues are given one of 4 priorities:

1. *Must-Have (M):*

   Critical bugs that impact the core functionality or security of the application. These must be fixed immediately.

2. *Should-Have (S)*:

   Important bugs that affect usability or user experience but do not critically disrupt core functionality. Fix these after addressing Must-Have bugs.

3. *Could-Have (C)*:

   Minor bugs or issues that don't have a significant impact on the user experience. These can be addressed as resources and time permit.

4. *Won't-Have (W)*:

   Bugs or issues that are low-priority or may not be addressed at all in the current development cycle.

2.3. Continuous Integration

The team will use Github Actions as the continuous integration tool.

2.4. Acceptance Tests

The acceptance tests written in gherkin can be found in a folder titled “Gherkin Feature Files” which can be found inside the Sprint 0 folder.

2.5. Tools

Visual Studio Code	IDE of choice for this project
Git	Git is essential for version control.
Python	Python(3+) version 3.11.5
PyWebIO	Python library for web development (website)
Google Drive	Documentation and Project Management
Virtual Environment Management	Python virtual environment management to isolate dependencies for your project. (we will be using “venv”)

3. Team Coordination

3.1. Team Meetings

The team will schedule one meeting at the beginning of each sprint to kick each sprint off, as well as other meetings as needed each week, potentially in smaller groups. Each Sprint lasts 3 weeks and starts on a Thursday. In addition, meetings could take place on Zoom, Google Meets or in person if needed.

3.2. Technical Knowledge Sharing

For all organizational documentation, the team will use a shared Google Drive. For communication, the team will use a messenger chat to update, inform or provide help to other team members.

3.3. Project Tracking

All version control and project tracking is to be done with Github Issues. Tasks will also be designated on Github Issues.

4. Point of Contact

It has been agreed upon that the single point of contact between the WESTF team and Group 50 will be done through Professor Robert Sabourin and Justin Randisi (Group 50 member)

5. Done Checklist

- ☐ All groomed tasks have been completed.
- ☐ All code is integrated into the main branch.
- ☐ All code in a pull request has been reviewed and accepted by another group member.
- ☐ Code builds successfully before all tests.
- ☐ All unit and integration tests pass. All previously automated tests still pass.
- ☐ Any other known bugs have been reviewed and documented.
- ☐ Any non functional requirements have been verified.