

Progress Report 5

Decision Table Editor

ECSE 458 D1/D2: Capstone Project

Fall 2023 / Winter 2024

Group 50

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Meetings

- Wednesday February 7th 2024 - (Online)
 - ◆ Planning and distribution of sprint 6 tasks
- Monday February 12th 2024 (Online)
 - ◆ Revision of sprint 6 additions
 - ◆ Discussion of mid-project presentations
- Friday February 16th 2024 (Online)
 - ◆ Meeting to complete progress report 5
 - ◆ Planning and grooming tasks and stories for sprint 7

Recent Progress

This progress report encompasses Sprint 6 of our project. The plan for this sprint was to focus on addressing issues and bugs brought up during exploration testing of our previous sprints, and start implementing features regarding the optimization tools for decision tables. The issues addressed include:

- The number of characters allowed for a table name when updating it now matches the initial naming conventions.
- Extra rule columns are no longer added when trying to create a condition or action with an invalid length.
- Extra “phantom” rules are no longer present when adding many conditions and actions of different types.
- Other minor bugs were fixed.

The initial features of table optimization were implemented during this sprint. This includes the identification of unused conditions, as well as unused actions. Conditions and actions are now flagged as unused if their value across all the rules have no impact. For example, if, for all the rules of the table, a certain condition has the same value, then the condition is unused. A button to fix all optimization warnings was also implemented in this sprint. Once these warnings are identified, the user can now press a button to automatically fix all the warnings in the table. In the current case, this feature deletes the unused conditions and actions.

Future Plans

In terms of future plans, the goal is to start implementing faster and better algorithms into our product. We already have most of the functionality implemented, but faster search, adding and all around performance is a big topic we would like to provide to our users. We also need to do a black box test of our entire app once it is all implemented simulating a typical user’s experience. In terms of our Sprint outline we have two sprints left thus we will most likely be splitting these two major next steps into these two sprints. Any extra time left will be used for refining our product and making sure what we release is the best possible version in order to achieve the maximum satisfiability from our users, our supervisors and ourselves.

Professionalism

Engineering, in the realm of software development and tool creation, carries a profound responsibility to society, particularly in the development of tools that aid in decision-making processes. Our capstone project of creating an online decision table editor tool embodies this responsibility, offering a platform that enhances decision-making accuracy and efficiency across various sectors. As we continue the second phase of this project, we are committed to using our understanding of the role of engineering in society with our experiences from the first semester in order to maintain the highest professional standards.

In our previous semester, when it came to professionalism, we highlighted a number of key points. Firstly, we believe teamwork and collaboration is of utmost importance as it highlights a character that is capable of integrating with society and allows the free flow of communication. In addition, we believe that transparency between all parties is fundamental for any engineering project in order to manage expectations and more importantly, for the safety of everyone involved. As an engineering project increases in size, its potential impact on society increases as well, which means that all the engineers involved have the highest responsibility to ensure the ethical and safe development of the project.

The first semester provided critical insights into areas for improvement, particularly in enhancing the tool's functionality and user interface. The second phase will see the modification of a number of features that are mostly to do with the logic reduction component and the actual user interface appearance. These decisions were made with the interests of the end user and the public in mind and were a result of the feedback and consultation between our team and supervisors.

In conclusion, by adhering to professional standards and the values discussed above such as teamwork and transparency, we aim to deliver a tool that not only serves its intended purpose but also contributes positively to society as a whole.