PennWest California

DeckTechCentral

Weekly Report 9

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For Week 9, we wanted to finish the dynamic "edit" states on the Deck page. There are several different scenarios that need to be considered when showing the appropriate functionality, such as if a guest is accessing a deck, a user is accessing their own deck, a moderator is accessing a deck, etc. For the Profile page, when a user is signed in, we wanted to show the user's decks and decks they liked. As both of these are done in the front-end, they must also be consistent and accessible. Of course, a working application is more important, but our ideal goal is to have an application that everyone can understand and use. On the back-end, we wanted to finish the Service layer and begin communication with the front-end. Thanks to the work done on the API Specifications, it should be easy to interface between the front-end and back-end. Finally, we aimed to complete a rough draft of the user manual.

On the Front-End, we have finished the design of Deck. Notably, it is now possible to add a card, remove a card, and change the cover image of the deck. To add a card, the user first clicks on the "Add Card" button in the deck. This will take the user to a search page where they can search for a card. The interfaces used for searching and displaying a card are the same as in the normal Card Search Page, which reduces code duplication. When the user has found the card they want, they can click on the card's photo to add the card (the photo will display text to add a card when the mouse is hovered over the photo). To remove a card, the user would click on the card in the deck, then click on a button to remove a card. The cover image is simply the image on a card, which can be set using another button on the card. Luke did much of this work, and the group reviewed the changes on the Discord. Paul and Adir had been busy with the user manual, but they plan on working to polish the front-end in the upcoming weeks.

On the Back-End, the Service layer has been completed. Searching for cards is fully functional; it is possible to search for a card from Scryfall and have that cached in a database for

later access. In a meeting with Dr. Mohamed, Christian successfully showed this functionality in a demonstration. The next step is the App layer. It is not complete, but it is in a state where testing can be done with the Front-End.

In terms of setbacks during the week, the deck add/remove card functionality took longer than expected to get implemented, but it does seem to be operational. In the App layer portion of the Back-End, there were errors found which will need addressing and testing. Overall, progress is looking good; it should be possible to complete the project on time. The development of this project has certainly not been smooth; there are aspects we could've done differently. For example, organization and planning were lacking at times. However, that is part of the learning experience; we all will be able what we've learned to our benefit in the future.

Our future plans are to set up the Profile page. This was a goal we did not reach this week, but we do not consider it a setback as it will not be a challenge to implement. The Profile page will need a list of decks that the user created, which already exists as a component. The Front-End will need polishing, particularly for the add/remove card functionality, but also on the whole application. We cannot set our expectations too high; there was limited time to complete the project and we have limited experience with React and front-end development. However, it would be a real shame not to have considerable effort put towards responsive web design. The application will be useless if people are not able to actually use it. On the Back-End, we want to finish the App layer, which will be how the Front-End communicates with the Back-End. That is also a goal we have: to ensure that all functionality works between the Front-End and Back-End. Finally, as the project is wrapping up, we will need to begin preparing for the final presentation. This will be done on April 26, 2024, and will be a formal presentation to the CS faculty at PennWest California, ABET Accreditation board members, and members of the CS industry. We

cannot delay creating this presentation; we will be able to do a rehearsal during a class which

will help with preparation.