EE/CprE/SE 492
Iowa State AI Schedule Companion
Status Report #5
Friday, November 1 – Thursday, November 14, 2024

Group number: ssdec24-08
Client: Koby Fowler
Faculty Advisor: Abraham Aldaco
Team Members:
Koby Fowler - Overall Application Leader
Chandrashekar Tirunagiri - Frontend Design Leader
Raghuram Guddati - Backend Design Leader
Jacob Paustian - Artificial Intelligence Research Leader
Christian Deam - Meeting Manager
Anna Huggins - Team Manager/Communicator

Status Summary

Since the last status report, our team has continued to work on the various components of our project. Our team completed our first round trip, and great strides have been made toward fully integrating our front and back ends. Moving forward, we still have work to do to polishing front end pages and ensuring full functionality of our application, but good progress has been made.

Past Week Accomplishments

Koby Fowler

- With the team finally coming together and completing most of a round trip and completing project functionality, I have switched completely to frontend focus and wrapping up the project nicely.

Chandrashekar Tirunagiri

- Worked alongside Raghu to design and implement new tables for a comprehensive 4-year degree program database.

Raghuram Guddati

- Worked alongside Chan to design and implement new tables for a comprehensive 4-year degree program database.
- Focused on collecting, organizing, and saving data in distinct columns to ensure structured storage. Successfully able to store all program data in the tables in a single column for now.

Jacob Paustian

- Coordinated with Chan and Raghu to successfully implement a full round trip. Uploading a pdf and chatting with an AI assistant directly from the webpage is now possible.

Christian Deam

- Userinfo page is completed (need Anna's changes, but I'm satisfied with how it looks on my end) and the edituserinfo is being modified to fit with user info page's new style.
- Fixed the home page being inaccessible for userinfo and edit user info

Anna Huggins

- Debugged the merge conflicts between my branch create_uni_theme and userinfo2
  - Currently, the merge conflicts have been resolved, but I get an error when trying to access the user info page while locally hosting
- Updated the user info page to use the abstracted ResponsiveAppBar, but I haven't been able to confirm it works yet due to the error I received- see Figure 1.0

```
✓ Compiled /UserInfo in 828ms (1433 modules)
 × app\UserInfo\page.tsx (261:5) @ UserInfoPage
 × ReferenceError: localStorage is not defined
    at UserInfoPage (./app/UserInfo/page.tsx:356:5)
digest: "556237327"
  259 |        }, [router]);
  260 |
> 261 |        if (!localStorage.getItem('userId')) {
      |        ^
  262 |             return null; // or a loading spinner
  263 |        }
  264 |
 GET /UserInfo 500 in 1046ms
 × app\UserInfo\page.tsx (261:5) @ UserInfoPage
 × ReferenceError: localStorage is not defined
    at UserInfoPage (./app/UserInfo/page.tsx:356:5)
digest: "556237327"
  259 |        }, [router]);
  260 |
> 261 |        if (!localStorage.getItem('userId')) {
      |        ^
  262 |             return null; // or a loading spinner
  263 |        }
  264 |
 GET /UserInfo 500 in 77ms
```

Figure 1.0: ReferenceError for localStorage.

Individual Contribution Tracker

Name	Individual Contributions	Hours this Week	Cumulative Hours this Semester (492)	Total Cumulative Hours (491/492)
Raghuram Guddati	- Worked with Chan to store data in tables. Working on storing data in respective columns.	7.0	39	85.0
Christian Deam	- userinfo and edituserinfo pages are complete (frontend wise) - leap to home fixed for userinfo and edituserinfo	3.0	24	48.0
Jake Paustian	- Helped with the completion of a full round trip to the AI service and frontend/backed	2.0	24	61
Anna Huggins	- Resolved Git merge error with Christian's userinfo2 branch - Attempted debugging a user info page display error	3.5	23.5	64.0
Chandrashekar Tirunagiri	- Worked alongside Raghu to design and implement new tables for a comprehensive 4-year degree program database.	4.0	23.0	70.0
Koby Fowler	- Wrapping up frontend	3.0	30.0	85.0

Pending Issues

Upcoming Merge Conflicts - 11/14/24

- **Anna - Status: Resolved**
  - Previously, when working to merge with Christian's userinfo2 branch, there were many merge conflicts with existing/differing node-modules. This was resolved by removing these packages and re-installing them. I also resolved the additional merge conflicts outside of node-modules.

Plans for the Upcoming Week

Koby Fowler

- Continue frontend overhaul and look into project postboard completion.

Chandrashekar Tirunagiri

- Will connect backed to userinfo page.
- We'll proceed with AI integration for the four-year degree plan, where the AI will recommend classes by analyzing and comparing the degree audit with the structured four-year degree plan
- Develop a class schedule page featuring a calendar view that displays classes for the upcoming semester. For now, we'll use mock data since we don't have access to Iowa State's Workday API key due to privacy restrictions.

Raghuram Guddati

- Will work with Chan to test and enhance code, ensuring data is stored in separate columns and optimizing table structure for more efficient data storage.
- Additionally, collaborate with Chan and Jacob to establish AI integration, performing roundtrip tests to confirm smooth data retrieval and interaction between the AI and database systems.

Jacob Paustian

- I will continue working with Chan and Raghu to help implement as many features as possible. This may mean I step into frontend development for a short period, as long as I don't step on any toes in doing so.

Christian Deam

- Focus on poster creation
- Aid Anna, if at all possible, for frontend
- Figure out how to edit user information

Anna Huggins

- Figure out a workaround so I can see Christian's user info page
- Add a dark mode (not necessarily required, but if I have time, this will put my use of useEffect/modes/themes to good use.)
- Finish redesign of the home page