

Individual Weekly Report

Name: Aviral Agarwal

Team: Good AIM

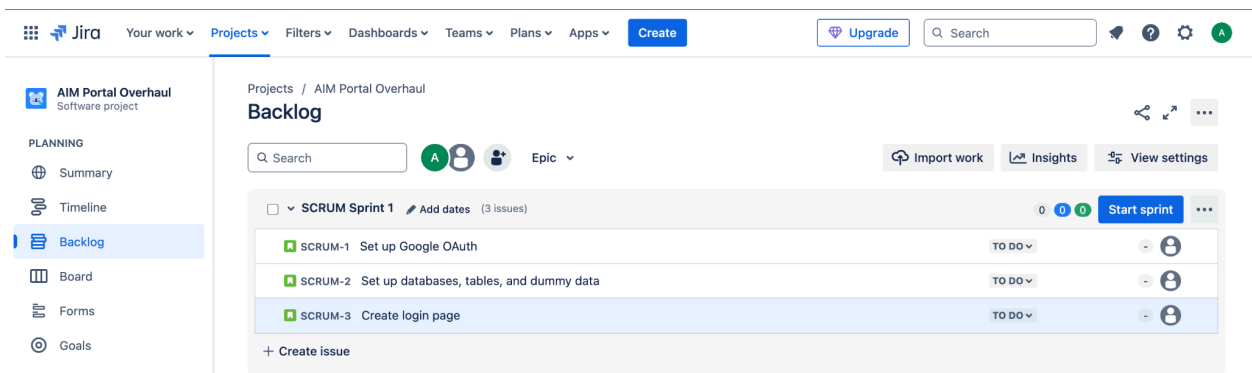
Date: 2/10/25

Current Status

1. What did you **personally** work on this past week?

Task	Status	Time Spent
Set up a Jira to track user stories and create sprint backlogs. Began transferring user stories over to the Jira.	Pending. Need to sort stories by sprints and add some descriptions along with assigning story points.	30 minutes
Reference Search. Found 5 methodology sources and 5 relevant existing systems sources and began doing the reference deep dive.	Completed.	1 hour 30 min
Created ERD for the data design	Completed.	1 hour

Include **screenshots/graphics** to illustrate what you did this past week:



Are there papers that are good examples of how you would like to evaluate your system?

46.What about their methodology would you like to use: This source discusses the POUR model (Perceivable, Operable, Understandable, and Robust) for evaluating accessibility. Implementing this model can ensure that the system is accessible to users with diverse needs.

- a. Why?
- i. The POUR model provides a comprehensive framework that addresses various aspects of accessibility, ensuring a more inclusive design.
- b. Reference Link (doi link preferred): <https://edtechbooks.org/digitaltoolsapps/evaluatingaccessibility>
- c. Reference Citation: EdTech Books, edtechbooks.org/digitaltoolsapps/evaluatingaccessibility. Accessed 4 Feb. 2025.

47.What about their methodology would you like to use: This review analyzes various techniques employed in web accessibility evaluations, highlighting the importance of automatic tools and the importance of combining them with manual assessments.

- a. Why?
- i. Understanding the strengths and limitations of different evaluation methods can give us a comprehensive assessment strategy for our system, ensuring both efficiency and thoroughness.
- b. Reference Link (doi link preferred): https://www.researchgate.net/publication/334337388_Web_Accessibility_Evaluation_Methods_A_Systematic_Review
- c. Reference Citation: (PDF) Web Accessibility Evaluation Methods: A Systematic Review, www.researchgate.net/publication/334337388_Web_Accessibility_Evaluation_Methods_A_Systematic_Review. Accessed 5 Feb. 2025.

48.What about their methodology would you like to use: The study proposes a combined method for evaluating web application accessibility based on WCAG guidelines, using both automated tools and manual testing to identify and address accessibility barriers.

- a. Why?
- i. Employing a dual approach ensures a more thorough evaluation, capturing issues that automated tools might miss and providing a deeper understanding of user experiences.
- b. Reference Link (doi link preferred): https://pc2lab.cec.miamioh.edu/raodm/pubs/confsfie19_acc.pdf
- c. Reference Citation: Accessibility in an Educational Software System: Experiences and Design Tips | IEEE Conference Publication | IEEE Xplore, ieeeexplore.ieee.org/document/9028402. Accessed 5 Feb. 2025.

49.What about their methodology would you like to use: This resource emphasizes a combination of automated tools, manual checks, and user testing to evaluate digital content's accessibility, ensuring a holistic assessment.

- a. Why?
- i. Incorporating diverse evaluation methods can identify a broader range of accessibility issues, leading to more inclusive and user-friendly educational software.
- b. Reference Link (doi link preferred): <https://www.dpi.nc.gov/about-dpi/technology-services/digital-accessibility/evaluating-digital-content-accessibility>
- c. Reference Citation: NC DPI, www.dpi.nc.gov/about-dpi/technology-services/digital-accessibility/evaluating-digital-content-accessibility. Accessed 4 Feb. 2025.

Potentially relevant systems that currently exist. How is your different?

31.Existing system/research: Accommodate by Symplicity

- a. How is yours going to be different?
- i. Our system will differentiate itself by offering a more intuitive and streamlined user interface designed specifically with the input of the students and staff that will use it. This collaborative approach ensures that the portal meets the unique needs of its users, providing features like customizable dashboards and enhanced accessibility settings.
- b. Reference Link (doi link preferred): [Accommodate by Symplicity](#)
- c. Reference Citation: Corporation, Symplicity. "Accommodate." Symplicity, www.symplicity.com/higher-ed/solutions/accommodate. Accessed 4 Feb. 2025.

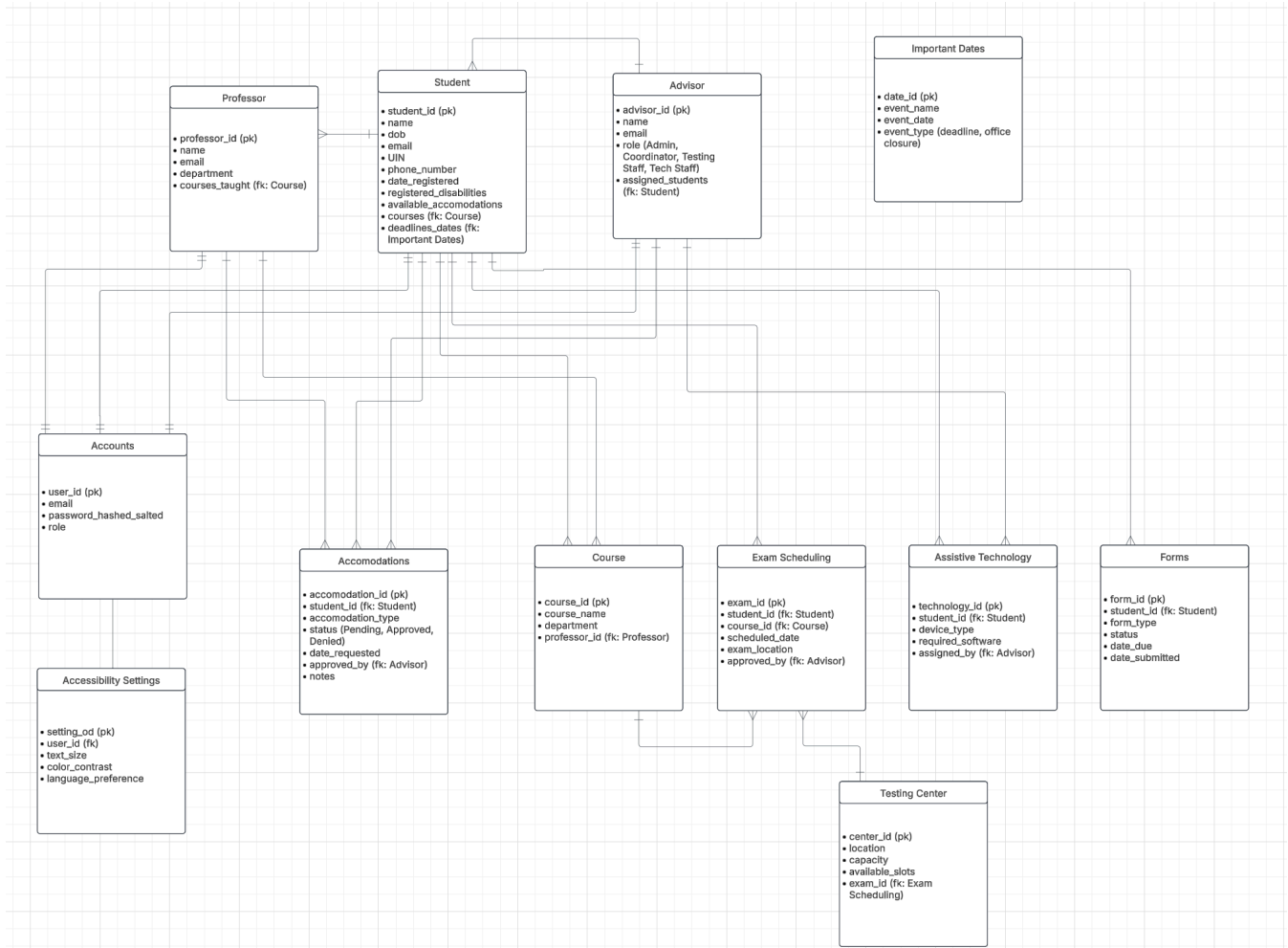
32.Existing system/research: Disability Services Management System (DSMS)

- a. How is yours going to be different?
- i. Our portal will build upon the functionalities of DSMS by integrating an accessibility menu that offers features like text-to-speech support, contrast/color adjustments, and language change options. This focus on user-centric accessibility ensures that the system caters to a wider range of disabilities and user preferences.
- b. Reference Link (doi link preferred): [DSMS](#)

- c. Reference Citation: Integrated Solutions, www.accessiblelearning.com/Features.aspx. Accessed 4 Feb. 2025.

33.Existing system/research: Workplace Disability Management Programs Promoting Return to Work: A Systematic Review

- a. How is yours going to be different?
- i. This study focuses on workplace reintegration for employees with disabilities, while our project aims to enhance academic accessibility and streamline accommodation management for students at Texas A&M University.
- b. Reference Link (doi link preferred): <https://doi.org/10.4073/csr.2012.17>
- c. Reference Citation: Workplace Disability Management Programs Promoting Return to Work: A Systematic Review - Gensby - 2012 - Campbell Systematic Reviews - Wiley Online Library, onlinelibrary.wiley.com/doi/full/10.4073/csr.2012.17. Accessed 5 Feb. 2025.



2. What problems did you run into? What is your plan for them?

We had to rewrite/create a lot of user stories since we were not specific enough when we wrote them the first time around. We have made good progress on this already and the Jira is going well.

3. What is the current overall project status from your perspective?

We are on track and have a good plan in place to make sure we stay on track.

4. How is your team functioning from your perspective?

We are functioning well mainly because everyone is willing to do their part and help others whenever questions arise.

5. What new ideas did you have or skills did you develop this week?

I learned about Neon and how it can be used to connect applications to a database which can be hosted on Azure or AWS.

6. Who was your most awesome team member this week and why?

Simone set up basic the tech stack almost entirely by herself which got us off to a good start.

Plans for Next Week

What are you going to work on this next week?

I will work on completing the Jira so that we can have an accurate backlog and start working on my assigned Sprint Tasks (setting up the skeleton for the student and user view).