KANM Show Scheduling - Sprint 3 Plan

Software Engineering CSCE 606 **October 21st**

Product Owner – Haridher Pandiyan

Scrum Master – James Nojek

Teammates – Ali Nablan, Ankit Mohanty, Davis Beilue, James Nojek, Kriti Sarker, Neeraj Julian Joseph Rajkumar, Toan Vu, Haridher Pandiyan

Pivotal - https://www.pivotaltracker.com/n/projects/2721031

Slack - https://app.slack.com/client/T07NSND4DJ8/C07PD2K9U2U

GitHub - https://github.com/amohanty03/KANM-Show-Scheduling

Deployed App - https://kanm-show-scheduler-b962465e9890.herokuapp.com/

Team Meeting Details - Every Monday at 9:00pm on Google Meets

Client Meeting Details - Every Thursday at 6:30pm on Google Meets

S. No	Date	Time	Place	Attendees (client)
5	10/17/2024	6:30 pm	Virtual (Google Meet)	Nayab Warach, Abigail Truman
6	10/24/2024	8:00 pm	Virtual (Google Meet)	Wesley Taylor

Meeting Minutes

Client Meeting - (10/17/24)

The upload, download, and logout functions were successfully presented to the client. While discussing the upcoming data processing work for Sprint 3, the client identified a new criteria to utilize when assigning radio jockeys to a time slot. If a radio jockey is returning to the same show and time slot as last semester, they are given the top priority for receiving that time slot again.

Team Meeting - (10/21/24)

Decided to figure out what algorithm we plan to use for the scheduling, as well as add any additional user stories apart from the ones SM had already come up with.

A greedy approach has been suggested as the most straightforward approach. Likely the first run to set the returning DJs with their time slot can be taken up as a separate story.

James has taken up the role of Sprint 3 Scrum Master (SM), while Haridher the Product Owner (PO).

Some additional backlog items are the CSS for the admin pages to be further enhanced.

There is no team meeting with the stakeholders this week as they are out of town for a conference but Davis will be requesting if we are having one with a member of their development team that they had previously mentioned.

The former sprint retrospective is being handled by Davis and Toan. Haridher will show the progress made to the TA on Wednesday. A question needs to be asked regarding his comment in the Sprint 1 MVP submission regarding the location of the Retrospective document considering the submission was only due the following week

Team Meeting - (10/23/24)

The TA didn't show up to class. PO will try catching him via email, and ask the doubt regarding how they want the retrospective document made available in the MVP. Additionally checking if multiple members can share a story (#pairprogramming) and if separate files are expected for rspec and cucumber coverage. SM may reach out to the Professor on the same if required.

PO will reach out to stakeholders to get the expected sample CSVs.

User stories have been identified. The primary focus will be on getting the algorithm working, and displaying the result, barebones on the generate schedule page. The CSS for the same will be done in Sprint 4. Team members will format the user story appropriately and add the required Lofi diagrams (can be combined if necessary, if even possible ie).

Couple of similar ideas were captured in a separate document discussing the algorithmic approach to this. Only the final step is different, in the allotment of the slots itself, where one just went with the first slot of the RJ, while the latter picked one based on assigning priorities to all 24 slots in the day. This can be easily integrated, so should be fine. Whole team still needs to review this.

Based on our discussion of how we're handling returning RJs, we came up with the following propositions: one idea is to have a separate field created for them in the form to enter it but this idea may facilitate the need to be provided with an additional CSV of last year's slot to verify the inputs. The other approach is to simply trust the RJs to enter the right data. The KANM team who will upload the CSV can validate this for now. This was what was agreed to in a previous meeting with the stakeholders.

We also discussed whether we should tackle the criteria sorting step by step or via assigning weights. The former is preferred by the team. May need to check with stakeholders.

Client Meeting - (10/24/24)

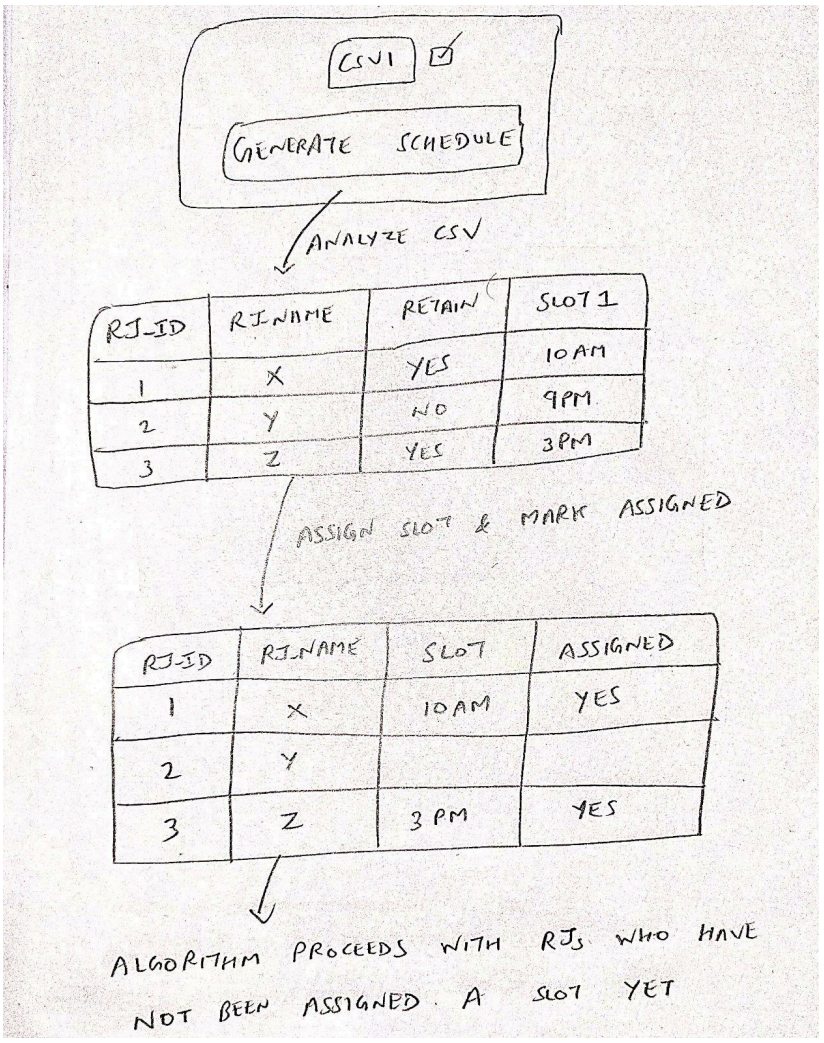
We had a discussion with the KANM web developer, Wesley Taylor, on how to integrate our project with the existing KANM website. The KANM website already uses an API get call to pull internal data into the calendar, so a similar practice could be implemented for our project. This is a stretch goal for the project, as the overall functionality of the schedule generation is more important. We may need to have a table later for the generated schedule, if we are to integrate via the API.

User Stories

Feature: Decide slot retention	Assignee	Story Points
As the developer When the admin clicks on generate schedule I should be able to decide if the RJs would like to retain their existing slot based on the available input.	Kriti	2

Feature: Perform slot retention	Assignee	Story Points
As the developer When an RJ has decided to retain their slot I should assign the retained schedule to the respective RJs and mark them as assigned.	Neeraj	2

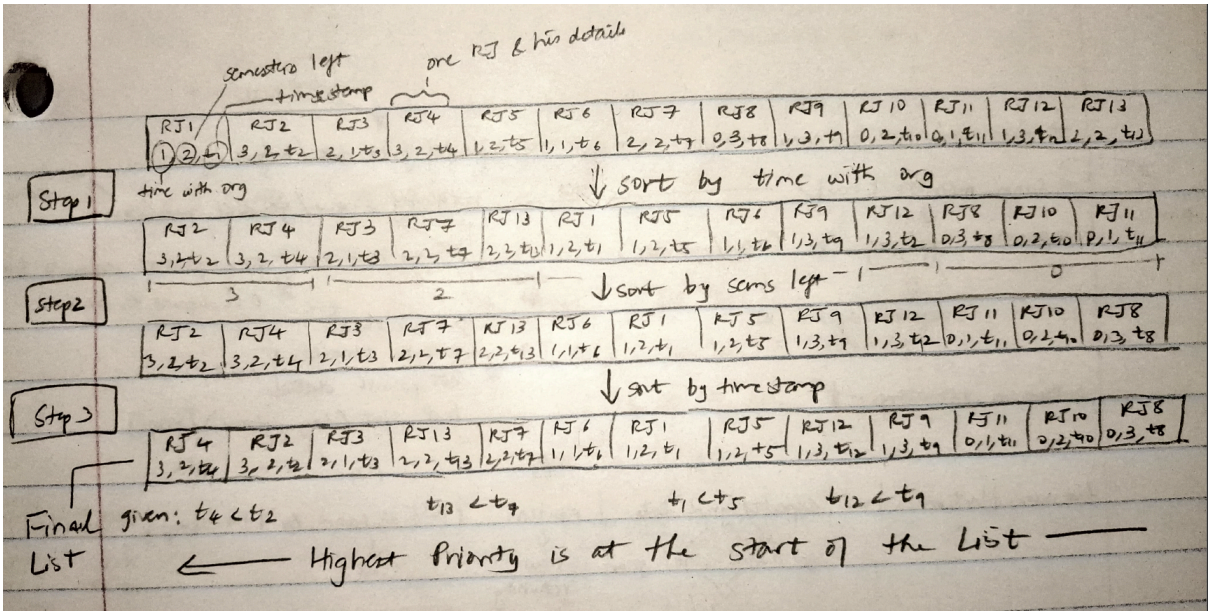
Storyboard for the 2 user stories above



Feature: Parse the CSV data	Assignee	Story Points
As an admin, when I am logged in, so that I can begin the schedule generating process, I want to parse the selected CSV into usable data.	James, Ankit	4

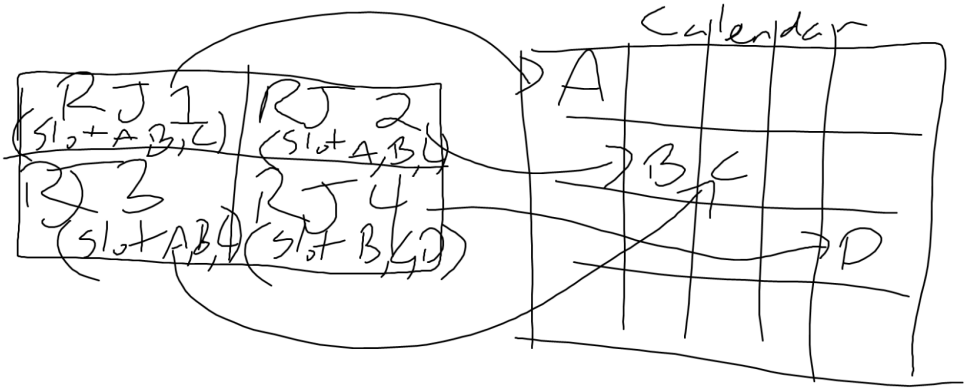
Feature: Rank the Radio Jockeys	Assignee	Story Points
As the developer, so that I can generate a schedule prioritizing specific classifications of radio jockeys, I want to rank the list of radio jockeys by time in the organization, semesters until graduation, and time of application.	Haridher, Toan	2

Storyboard for Above Rank the Radio Jockeys



Feature: Schedule the Radio Shows	Assignee	Story Points
As the developer, so that I can generate a schedule prioritizing specific classifications of radio jockeys, I want to iterate through the ranked list of radio jockeys, and assign them in order to open time slots based on their preferred and alternate times.	Davis, Ali	6

Storyboard for Schedule Radio Shows

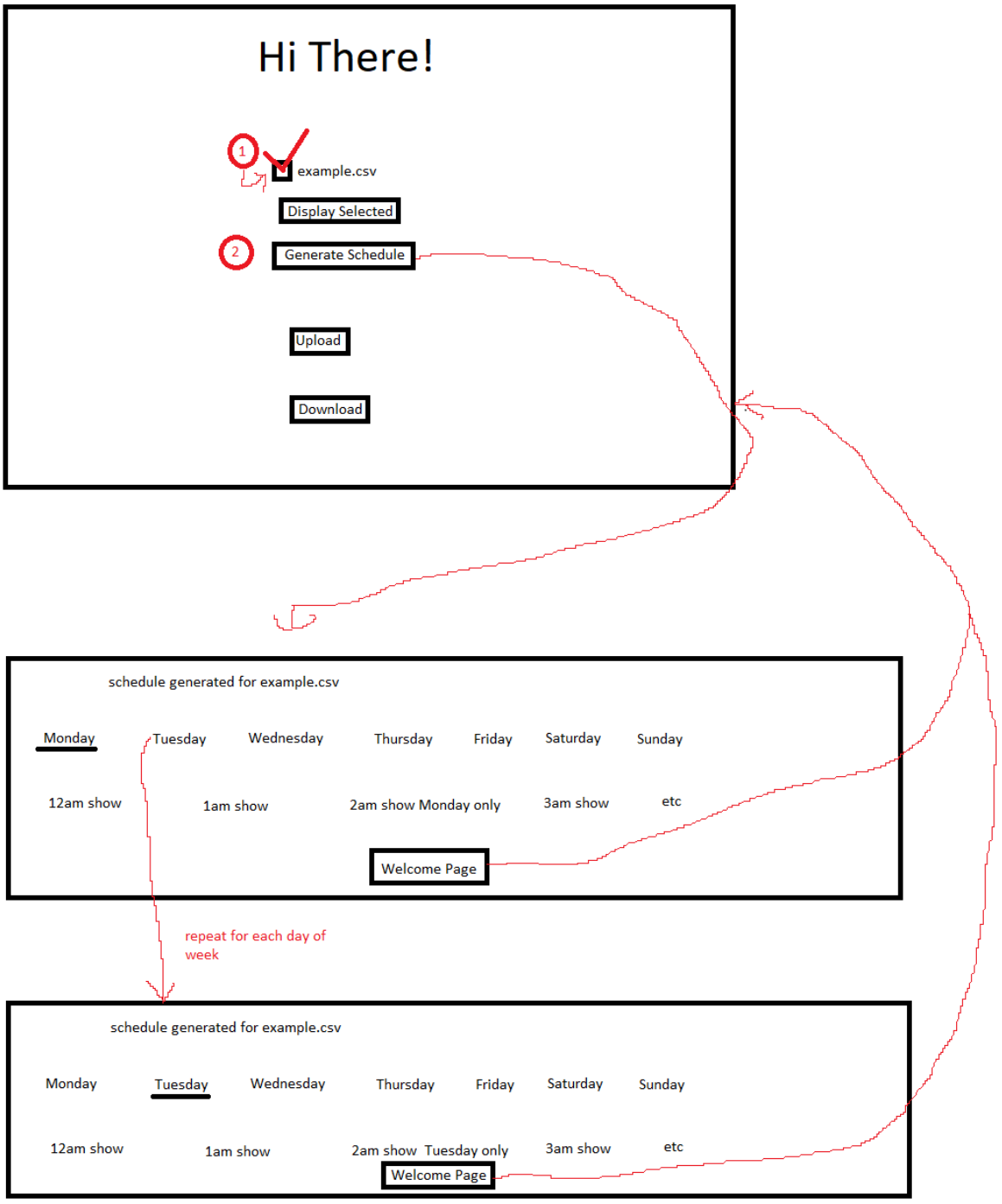


Where “(Slot A, B, C)” represents “preferred, alternate 1, alternate 2” time slots for a given RJ.

Feature: Generate Schedule Button	Assignee	Story Points
As an admin, when I am logged in, I want to see a “Generate Schedule” button. The generate schedule button can be found under the “Display Selected” button, on the welcome page. (redirect to schedule page)	Kriti	1

Feature: Display Schedule	Assignee	Story Points
As an admin, when I am logged in, so that I can view a generated schedule, when I click the "Generate Schedule" button, I want to be	James	2

redirected to a page showing the schedule generated from the selected CSV in calendar format.		



Sprint Backlog

Appropriate CSS Styling needs to be added to the Generate Schedule Page and any other pages. We may have the integration extension task work added later to the backlog as well.

Sprint Goal:

The goal of this sprint is to complete the generate schedule function. The function will be complete when a user can select an uploaded CSV, and click a button that generates the

schedule. The user will then be redirected to a page where they can view the schedule that was generated.

Each user story should be finished with working functionality as well as code quality and unit testing.

Stories Pulled Into The Sprint:

Listed above, for a total of 19 points. The Story Points assigned to each story equates roughly to the number of working days we expect the story to take. For example, a 2 point story is one we estimate to take the developer about 2 total days to both implement and test.

Time and Assignment:

Team members are assigned with individual user stories as listed above and the coding should be done by Wednesday 10/30/2024.