KANM Show Scheduling - Sprint 4 Plan

Software Engineering CSCE 606   **November 4th**

Product Owner – Ali Nablan

Scrum Master – Kriti Sarker

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)
7	10/30/2024	6:30 pm	Virtual (Google Meet)	Nayab Warach, Abigail Truman
8	11/07/2024	6:30 pm	Virtual (Google Meet)	Abigail Truman

Client Minutes - (11/07/24)

Demonstrated export button and the format of the schedule to the client. The client suggested adding the DJ name to the schedule view on the web application and if they don't have one just use first name last name. There is also the export button which the client suggested to make into one excel file sheet with the days as the columns and the times as the rows.

Team Meeting - (11/04/24)

Had a sprint planning meeting where we decided potential stories for the upcoming sprint and assigned the stories to team members. We have decided that the main focus for the final sprint will be arranging the schedule results in a more readable format, creating a list of assigned RJs, and improving the scheduling diagram. Some other changes also include visually improving the UI, creating an export schedule function, and adjusting the file upload feature so that files cannot be overwritten.

User Stories

Feature: Refine Scheduling Algorithm	Assignee	Story Points
As an admin, I want the schedule generation algorithm to check for more open time slots in a user's alternative list so that they have a higher chance of getting scheduled.	Davis Kriti	7

Feature: Add DJ Names for a single show name	Assignee	Story Points
As an admin, when I generate the schedule, for each entry, the DJ(s) hosting the show should be visible	Ali Kriti	2

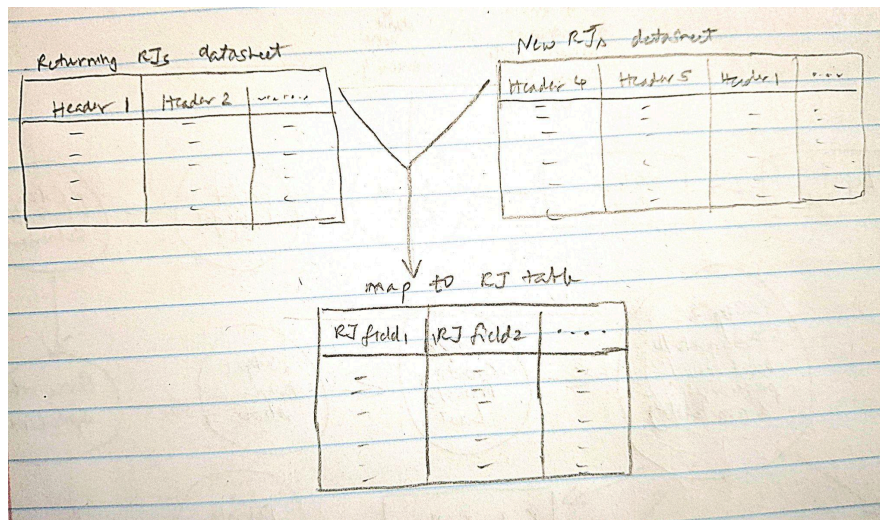| Feature: Display the Assigned RJs	Assignee	Story Points
As an admin, when I generate a schedule, then the RJs aren't retaining their former timeslots, should appear in the calendar.	Haridher	1

Storyboard for Feature : Display the Assigned RJs
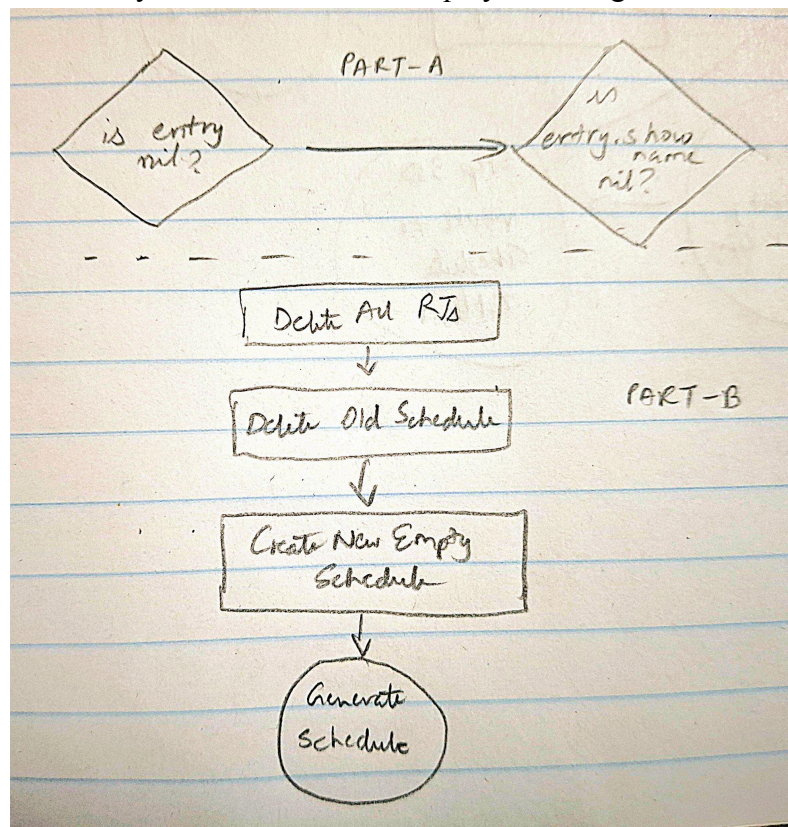
Feature: Map the Form Fields to the Table	Assignee	Story Points
As an admin, I should have the output spreadsheet map to the fields I want for my table, so that it doesn't rely on the column ordering.	Haridher	1

Storyboard for Feature : Map the Form Fields to the Table

Feature: Handle Co-Host Entries	Assignee	Story Points
As an admin, when I generate the schedule, if there are any multiple RJs for a single show, then I will only keep the RJ with the higher priority in the generation list and discard the other.	Haridher	1

Storyboard for Feature : Handle Co-Host Entries

Got partial data

is existing RJ? — No → Create new RJ record → Continue algorithm

Yes

do member types match — NO → is new member type "returning"? — No → Ignore

Yes → Update RJ

is new entry of higher priority — Yes → Update RJ

No → Ignore
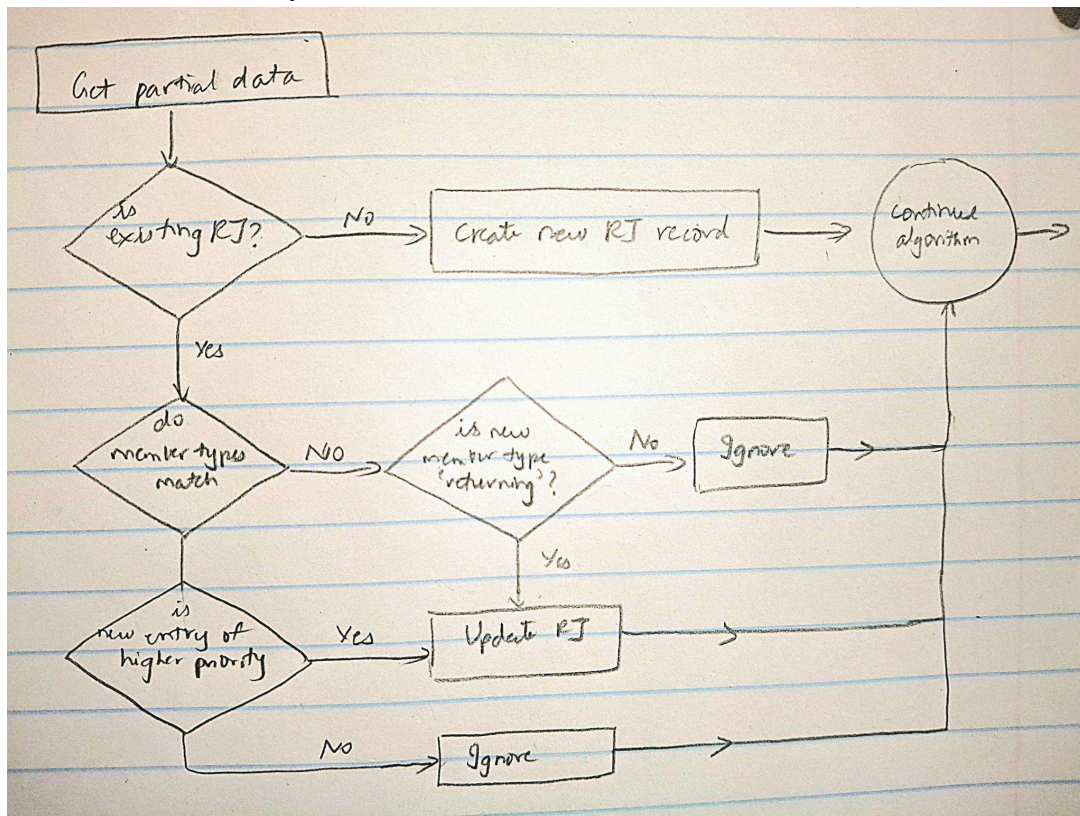
Feature: Export Schedule Button	Assignee	Story Points
As an admin, when I am logged in, I want to see a "Export Schedule" button after I click on the "Generate Schedule" button.	Ankit	1

Feature: Export Schedule	Assignee	Story Points
As an admin, when I am logged in, so that I can export a generated schedule, when I click the "Export Schedule" button, I want the generated schedule to be downloaded in .xlsx format.	Ankit	2

Storyboard for the Feature: Export Schedule Button and Export Schedule

KANM RADIO SHOW SCHEDULING

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EXPORT SCHEDULE

Schedule is saved as an .xlsx file

WEEKLY_SCHEDULE.XLSX   − □ X

	M	T	W	Th	F	Sa	Su
00:00 - 01:00							
⋮							
12:00 - 13:00							
⋮							
23:00 - 00:00							
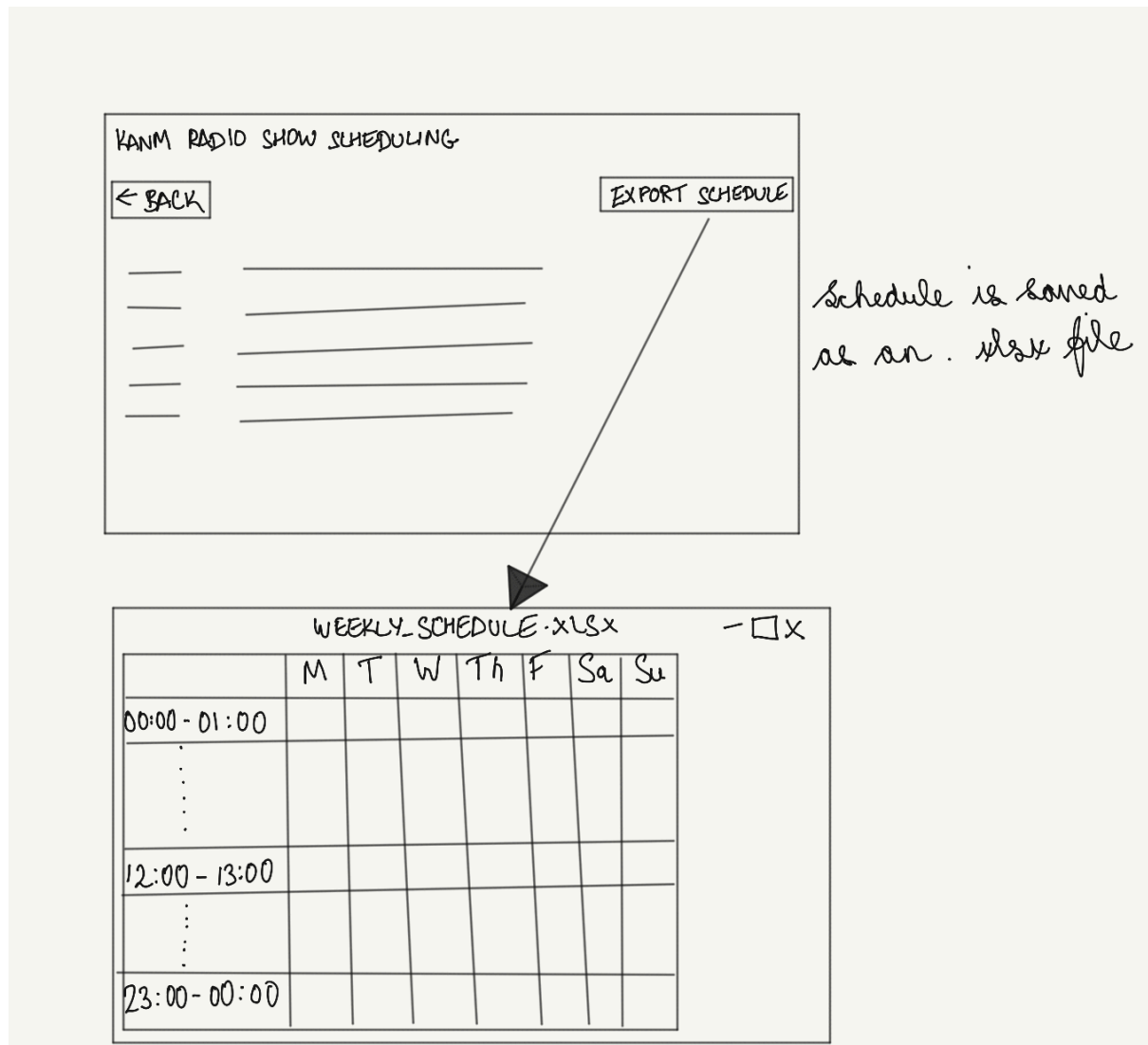
Feature: Display Unassigned RJs List	Assignee	Story Points
As an admin, when I click on generate schedule, I want to be able to view the list of all RJs who didn't get assigned a slot, besides the generated schedule.	Neeraj Julian	3

Storyboard for the Feature: Display Unassigned RJs List

Feature: Enhanced XLSX Validation	Assignee	Story Points
As an admin, so that I can ensure data integrity, I want to only be able to upload files with the .xlsx extension, and the file name cannot match what is already in the application, and the file name cannot be more than 60 characters long.	Toan	2

Storyboard for Feature: Enhanced XLSX Validation

```
                        ┌──────────────┐
                        │    Upload    │
                        └──────────────┘
             ┌─────────────┘        └─────────────┐
             ▼                                     ▼
    ┌──────────────────┐                  ┌──────────────┐
    │ Accepts .xlsx file│                  │   Rejects    │
    └──────────────────┘                  └──────────────┘
             │              ┌──────────────┬──────┴───────┐
             ▼              ▼              ▼              ▼
    ┌──────────────┐  ┌──────────────┐ ┌──────────────┐ ┌──────────────┐
    │ Upload file  │  │ non .xlsx file│ │ file with a  │ │file with exist│
    └──────────────┘  └──────────────┘ │  very long   │ │  ing name    │
             │              │          │    name      │ └──────────────┘
             ▼              │          └──────────────┘      │
    ┌──────────────┐        └──────┐        │      ┌─────────┘
    │Display success│              ▼        ▼      ▼
    │   message    │          ┌──────────────────┐
    └──────────────┘          │  Display warning │
                              └──────────────────┘
```
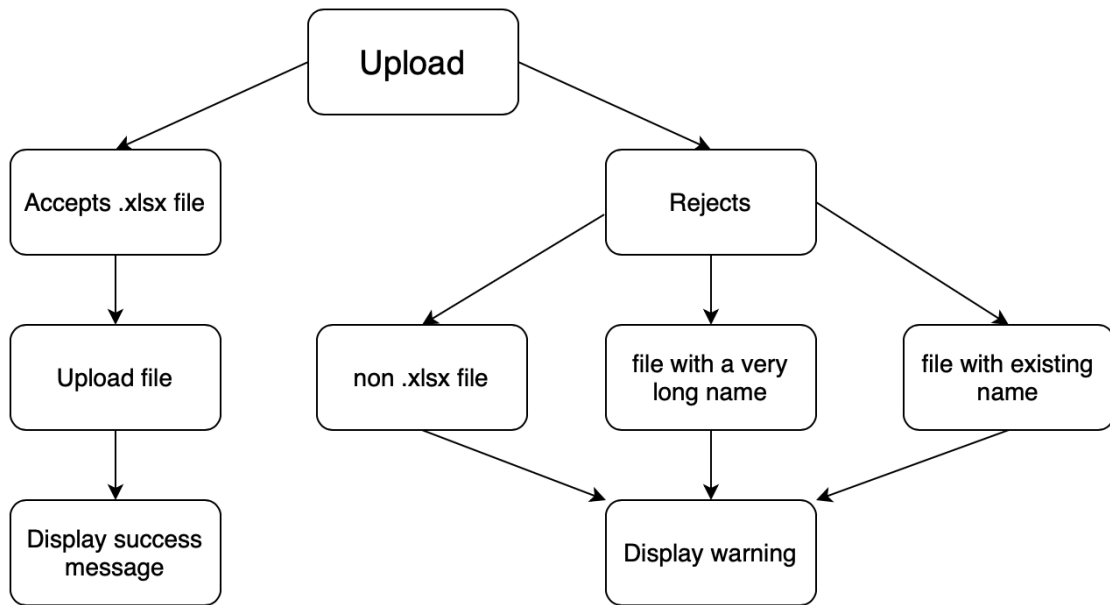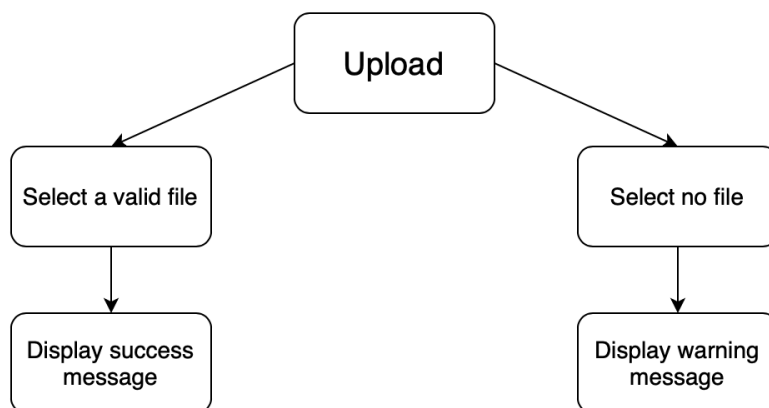
Feature: Enhanced Upload XLSX Controller	Assignee	Story Points
As an admin, so that I can upload a valid .xlsx file when the user selects a file, or display a warning message otherwise.	Toan	1

Storyboard for Feature: Enhanced Upload XLSX Controller

```
                    ┌──────────────┐
                    │    Upload    │
                    └──────────────┘
            ┌───────────┘      └───────────┐
            ▼                              ▼
   ┌──────────────┐               ┌──────────────┐
   │Select a valid │               │ Select no file│
   │    file      │               └──────────────┘
   └──────────────┘                      │
            │                            ▼
            ▼                    ┌──────────────┐
   ┌──────────────┐             │Display warning│
   │Display success│             │   message    │
   │   message    │             └──────────────┘
   └──────────────┘
```

Feature: Final Schedule View Refinement	Assignee	Story Points
As an admin, when I generate the final schedule, the empty time slots in the schedule should no longer be visible	James	1

Feature: CSS Adjustments	Assignee	Story Points
As an admin, the UI should be aesthetically pleasing.	Ali	2

Sprint Goal:

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

Stories Pulled Into The Sprint:

Listed above. 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 11/13/2024.