

# KANM Show Scheduling - Sprint 4 Retrospective

Software Engineering CSCE 606

November 22<sup>nd</sup>

**Product Owner** – Ali Nablan

**Scrum Master** – Kriti Sarker

**Developers** – 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>

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

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

**Dates** - November 2nd, 2024 to November 15th, 2024

Member	Role	Points
Ali Nablan (Product Owner)	Improved the UI and adjusted calendar view to display DJ names.	3
Ankit Mohanty	Developed the Export Schedule functionality.	3
Davis Beilue	Made further enhancements to the scheduling algorithm to assign more slots.	3.5
James Nojek	Removed unassigned slots from the calendar view.	1
Kriti Sarker (Scrum Master)	Made further enhancements to the scheduling algorithm and adjusted calendar view to display DJ names.	4.5
Neeraj Julian Joseph Rajkumar	Developed the Display Unassigned RJs functionality.	3
Toan Vu	Added further validation checks to the Upload functionality.	3
Haridher Pandiyan	Handled co-host entries in case of duplicate show entries, map form fields to db table, display non-retaining returning DJs.	3

### **Total Solved User Story Points**

Name	Sprint 1	Sprint 2	Sprint 3	Sprint 4	Total
Ali Nablan	1	2	3	3	9
Ankit Mohanty	2	1.5	2.5	3	9
Davis Beilue	0.5	2	3	3.5	9
James Nojek	1	2.5	4.5	1	9
Kriti Sarker	0.5	2	2	4.5	9
Neeraj Julian Joseph Rajkumar	1	3	2	3	9
Toan Vu	3	2	1	3	9
Haridher Pandiyan	2	3	1	3	9
Total	11	18	19	24	72

### **NOTE:**

- *The 0.5 story points arise from the fact that few stories were split amongst two members of the group.*
- *There is a slight discrepancy between our story points in Sprint 3 Retrospective and the current Sprint 3 story points listed in the table above. The latter is correct - this was due to a story point that was taken over at the end stage after the Retrospective document was submitted.*

### **Sprint Goal**

The goal of this sprint was to display the DJ names for each entry in the schedule, refine the scheduling algorithm, develop the export schedule functionality, remove unassigned slots from the schedule, create a list of unassigned DJs, and add validation checks to the upload functionality.

### **Sprint Achievements**

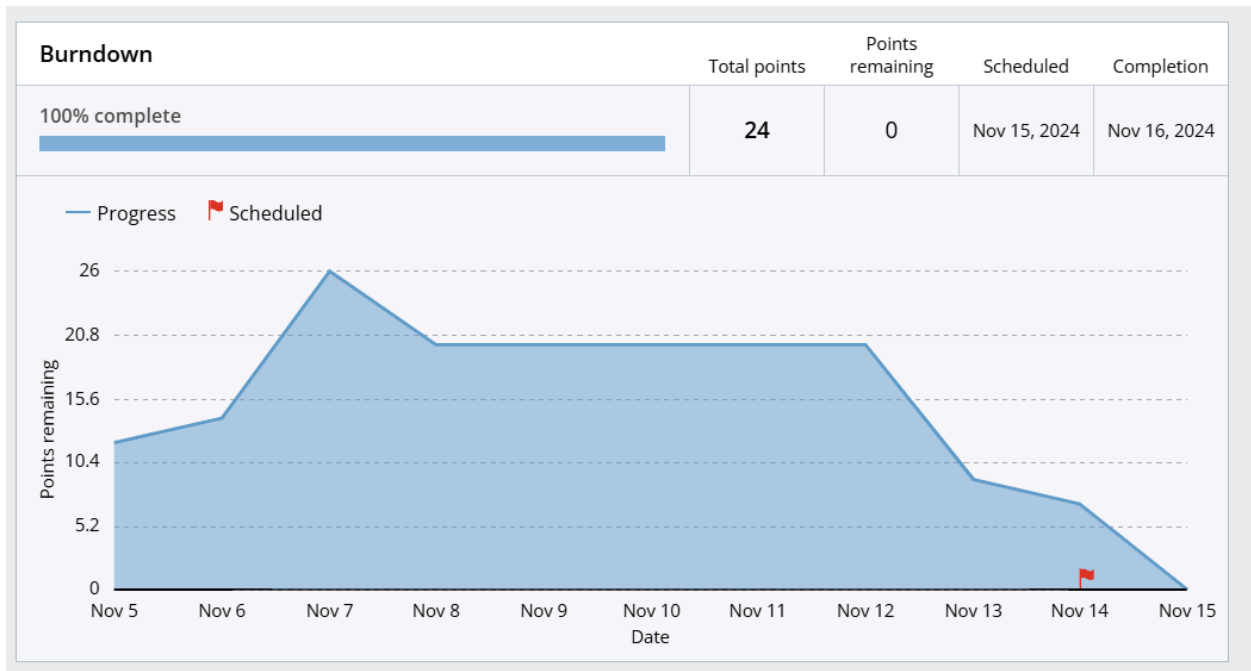
The sprint goals were achieved. The current generated schedules display the DJ name per entry and no longer display empty unassigned slots. The algorithm has been refined so that there are

now less unassigned DJs. Furthermore we now have the functionality to export the schedule and display a list of unassigned DJs. Further upload validation checks were implemented as well and minor UI changes were made as well. Changes regarding the form field to database mapping were made as well. Coverage in both cucumber and rspec continues to remain at over 90 % and the code climate remains at A. Stakeholders were happy with the progress made.

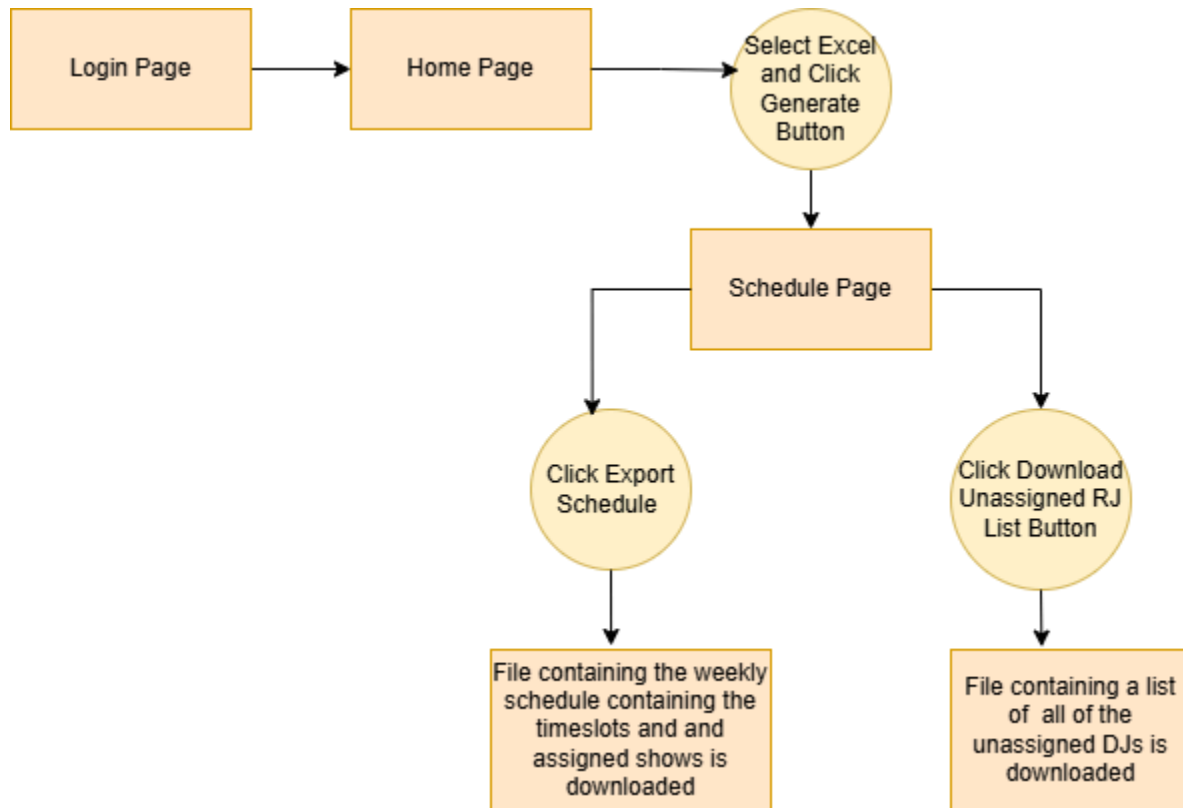
**Sprint Backlog**

There were no items in the backlog for this current sprint.

**Burndown Chart**



## Design Diagrams



## Documentation Of Changes

This sprint we made revisions to the core algorithm of our application and modified the schedule display. We also added the functionality to export the generated schedule as well as the functionality to export a list of unassigned RJs. Furthermore we added validation checks to the upload schedule function and adjustments made to the form field and database mapping were made as well.

Stories, mockups and storyboards are documented as part of the Sprint 4 document.

[https://github.com/amohanty03/KANM-Show-Scheduling/blob/main/documentation/Fall2024/Sprint\\_4.pdf](https://github.com/amohanty03/KANM-Show-Scheduling/blob/main/documentation/Fall2024/Sprint_4.pdf)

## Evaluation Of Code And Test Quality

More than 90% of the code has been tested, which is evident from the code coverage report :

# All Files ( 94.58% covered at 50.89 hits/line )

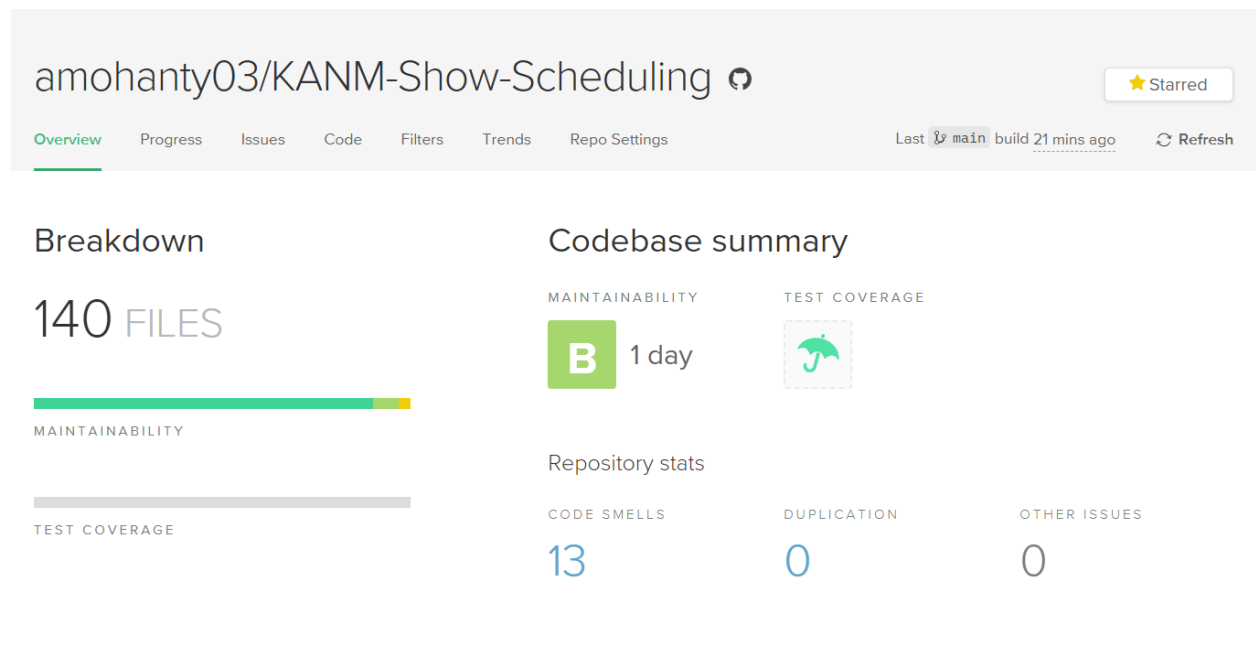
18 files in total.

443 relevant lines, 419 lines covered and 24 lines missed. ( 94.58% )

Rubocop was executed and no offenses were detected.

Code climate report has given a rating 'B' with 13 code smells.

Code Climate Report <https://codeclimate.com/github/amohanty03/KANM-Show-Scheduling>



## **Customer Meeting**

November 21<sup>st</sup> 2024, 6:30 pm

Virtual Meet

We discussed with the client the future handoff for the project and Customer Satisfaction Form that the client will have to fill out.

## **BDD & TDD**

Cucumber Scenarios and Rspec examples have been written in such a way that they cover the entirety of the changes made to the welcome page to account for the form changes while handling delete and generate action based on selected files, and ofcourse coverage of the main feature developed this sprint, which is the scheduling algorithm itself.

52 Cucumber scenarios

```
52 scenarios (52 passed)
326 steps (326 passed)
0m7.158s
Coverage report generated for Cucumber Features, RSpec to
Line Coverage: 93.68% (415 / 443)
```

48 Rspec examples

```
Finished in 2.33 seconds (files took 3.55 seconds to load)
48 examples, 0 failures

Coverage report generated for Cucumber Features, RSpec to
Line Coverage: 94.58% (419 / 443)
root@DESKTOP-MW07A06: /mnt/c/Users/Lueman/Documents/Sched
```