

Daily Scrum package — Sprint 4

Daily Scrum Reports

Introduction

Here is written the daily scrum reports so far for Sprint 4. Our main objective is to finish the code this sprint. Keep in mind that the Jira isn't entirely up-to-date, and the reports are written based off our memory due to being unable to meet as frequently, resulting in less accurate reports.

Sprint Duration

- April 24th to May 7th, 2024

Tue, 23/04/2024

- **Mathias:** Created a document about what can be delivered in the upcoming sprint 4 and how that work will be achieved.(Sprint-4-Planning-Package_23042024.pdf). Added documents to the project repository(sprint 4 planning package , sprint 3 review and retrospective) .
- **Ahmad:** Completed Case and Sequence diagram, and Tabular Use Case document, sent it on our discord server to discuss. Added Svg file diagram and Case document to the project repository.
- **Samuel:** Created a document on our completed sprint 3 about the scrum review and retrospective (Sprint-3-Review-and-Retrospective_23042024.pdf).
- **Karlos:** Began learning about GET-ting data from a WEB API using MS Learn. Continued working on ERD diagram.
- **Blockers:** None.

Wed, 24/04/2024

- **Mathias:** Collaborated with Ahmad to bind code in Optimizer tap to class files (connect Front-end and Back-end).
Assigned stories and tasks that we plan to do for the upcoming Sprint 4 on Jira.
- **Ahmad:** Started working on Optimizer View(Front-end).
- **Karlos:** Worked on entity relationship diagram.
- **Samuel:** Started working on Data Visualization tap (Graphs, Front-end).
- **Blockers:** Issues with the Data Binding in Avalonia, fixed by switching to SVG package.

Thu, 25/04/2024

- **Mathias:** Developed the back-end code: Removed package from project (ProfHeat.AUI), and merged its files with other packages. Updated some codes in Back-end to match changes in Front-end.
- **Ahmad:** Started working on the SVG assets that will be the last feature added to the Optimizer Tap, having nearly completed the Optimizer View.
- **Samuel:** Still working on the tap Data Visualization project, got some advice on how to work on it.
- **Karlos:** In-progress.
- **Blockers:** None.

Fri, 26/04/2024

- **Mathias:** Finished developing a basic OPT algorithm for the first case, allowing us to effectively schedule heat production while spending the least amount of money(back-end).
- **Ahmad:** Finished developing the Optimizer View, and comments have been added to the code(Front-end).
- **Samuel:** Still working on the tap Data Visualization project, got some advice on how to work on it.
- **Blockers:** None.

Mon, 29/04/2024

- **Mathias:** Started developing the unit test for the project, examining cases to verify the functionality and dependability of its components(Back-end).
- **Ahmad:** Started work on state machine diagram.
- **Samuel:** Going through tutorials on Avalonia about Live charts.
- **Blockers sum:** None.

Tue, 30/04/2024

- **Mathias:** Still working on developing the unit test for the project(Back-end).
- **Ahmad:** Completed state machine diagram. Added Svg file diagram to the project repository.
Created a document on daily scrum package sprint4.
- **Samuel:** Starting with the implementation of the charts.
- **Karlos:** Started working on Scenario Comparison Functionality.
- **Blockers:** None.

Scrum Board

TO DO 1

▼ Everything else (9 issues)

OPT-3 Scenario Comparison
Functionality
OPTIMIZER (OPT)
LowPriority
AlgorithmEnhancement
Enhancement
SCRUM-12 8 K

+ Create issue

IN PROGRESS 3

Entity Relationship Diagram
RESULT DATA MANAGER (RDM)
SCRUM-28 8 K

Data Visualization (Graphs)
OPTIMIZER (OPT)
SCRUM-43 SA

Unit testing
SCRUM-45 8

DONE 5 ✓

OPT-1 Implement Scenario 1
OPTIMIZER (OPT)
HighPriority Development
AlgorithmDevelopment
SCRUM-10 8

OPT-2 Implement Scenario 2
OPTIMIZER (OPT)
HighPriority Development
SCRUM-11 13

Optimizer View
OPTIMIZER (OPT)
SCRUM-42 8

Svg assets
OPTIMIZER (OPT)
SCRUM-44 5

State Machine Diagram
OPTIMIZER (OPT) Diagram
SCRUM-46 8

Burndown Chart



Conclusion

We have gotten some significant progress in the project with the backend essentially being done and now the Optimizer View too. The only essential component missing being the Data Visualizer, which's development has slowed down due to it being a pain to implement. It also requiring the knowledge of what kind of chart you want to use and what datapoint it is you need to use. The plan is still to preferably finish the code within the sprint.