FlowMate

First Sprint Review

Inspect, adapt, deliver: our Sprint 1 at a glance.

Presented by

TEAM 5

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Sprint Recap

What We Delivered

We implemented the rule creation and period check process. We also implemented the time trigger, message and audio reproduction. In addition, the basic GUI was created.

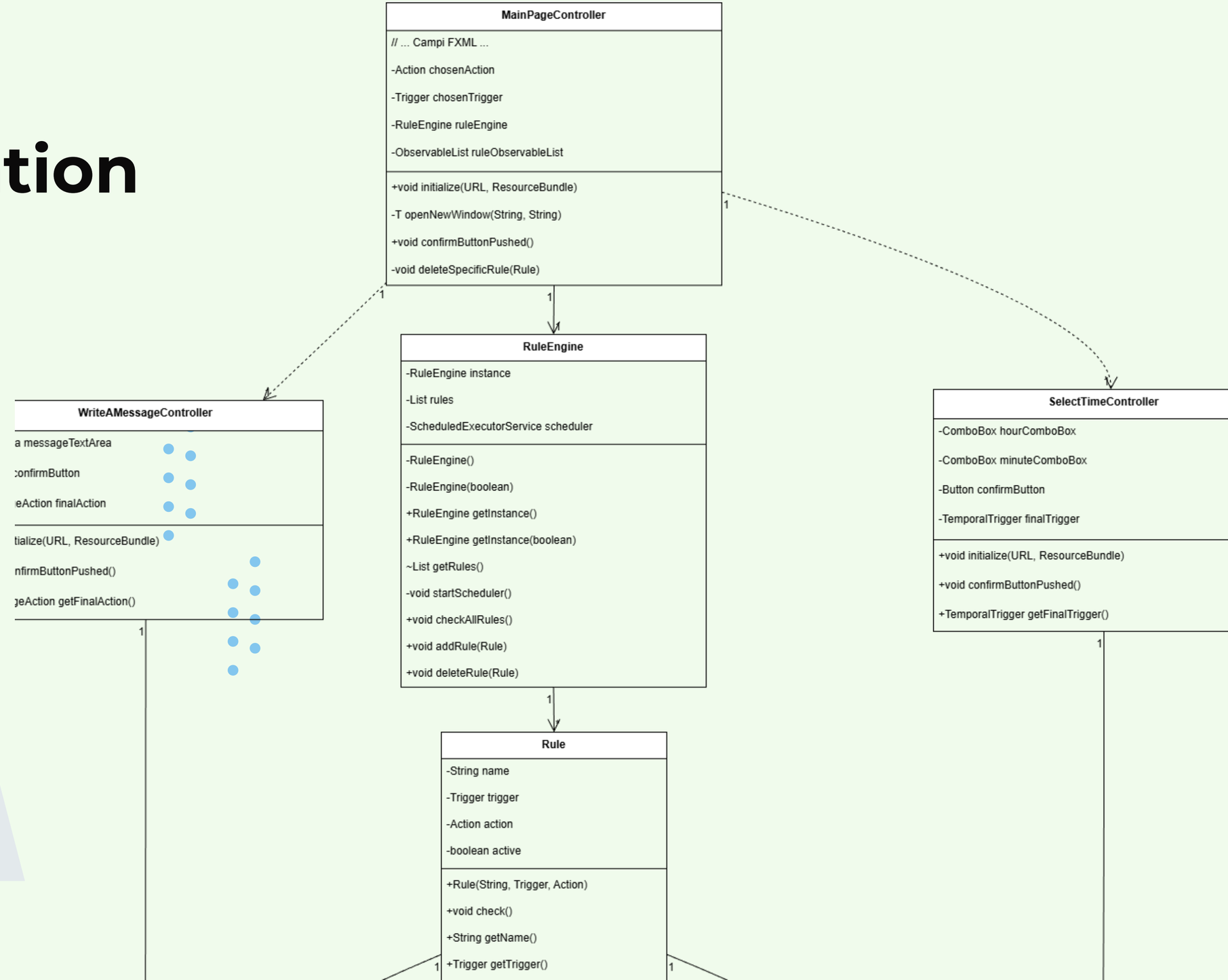
Original Commitments

Our original goal was to complete all the task related to the first 8 User Stories.

Velocity Achieved

We managed to achieve a velocity of 11 story points.

Implementation Achieved



What Went Well

Successful Collaborations

We're highlighting where teamwork really clicked. Good partnerships should be repeated.

Process Improvements

Despite initial problems, the team managed to achieve a great amount of the User Stories we predicted.

Technical Wins

We managed to find an IDE that fitted our needs.

Stakeholder Engagement

We managed to walk through our problems cooperating and orginizing our work.

What Didn't Work

Task Division and Definition

We first divided tasks without a precise logic, so the code implementation had many dependencies between team members and didn’t cover all the necessary aspects

Version collision

We encountered problems making different versions of NetBeans, JDK, JavaFX and JUnit all together

Repository problems

We first had problems with the repository connection and code pushing

Sprint retrospective: Starfish diagram

Updated Sprint Backlog

Assigned Task

Sabatino Ester	Pecoraro Sara	Della Corte Alessio	Siddiqa Ayesha
2.1 - Create a RuleEngine class	**2.4** - Create the main loop that iterates through the list of rules.	**1.4** - Creation of the GUI that consent to select a Trigger and an Action.	**1.1** - Create an Action Interface
2.2 - Write JUnit tests for the RuleEngine class	**1.5** - Implement the Controller of the Main Page	**3.1** - Define The TimeTrigger Class.	
2.3 - Implement a background thread	**2.5** - Implement the logic to execute the Action if the Trigger is true.	**3.2** -Create a GUI that allows the user to select the time he wants the trigger to fire	**1.2** - Create a Trigger Interface
4.1 - Define PlayAudioAction class	**3.5** - Integrate the TimeTrigger into the rule creation flow	**3.3** - Implement the Controller of the Select Time GUI	**1.3** - Create a Rule Class
4.2 - Integrate AudioAction into the rule creation workflow so the user can select it as the action for a rule.	**4.7** - Write unit tests for AudioAction	**3.4** - Validate the time input (ensure the user cannot insert invalid formats, empty fields, etc.)	**7.1** - Create a DeleteRule method.
4.3 - Handle errors during playback	**5.1** - Define a MessageAction class	**3.5** - Write integration tests for rule firing when the	**7.2** - Update the MainPage GUI so that the user can

		time is reached.	delete a specific rule.
4.4 - Add a file selection UI component that lets the user browse and choose an audio file	**5.3** - Validate the input message	**5.2** -Create a GUI that allows the user to write the message he wants to show	**8.3** - Implement a RuleRepository class.
4.5 - Write the Controller of the SelectAudioPath GUI	**5.5** - Integrate MessageAction into the rule creation flow	**8.1** - Define the automatization of the rule states.	**8.4** - Implement "Save" and "Load" method (serialize/deserialize List<Rule> to file).
6.1 - Create a AddRules method.	**8.2** - Design the file format (JSON, XML, or CSV). (US08)		
5.4 - Implement the Controller for the Write Message GUI.			

COLOUR LEGEND

COMPLETED	CARRIED OVER	NOT STARTED YET

Creational Singleton Pattern

Pattern definition

The Singleton is a creational design pattern that restricts a class to a single unique instance, ensuring a global point of access to it throughout the application lifecycle.

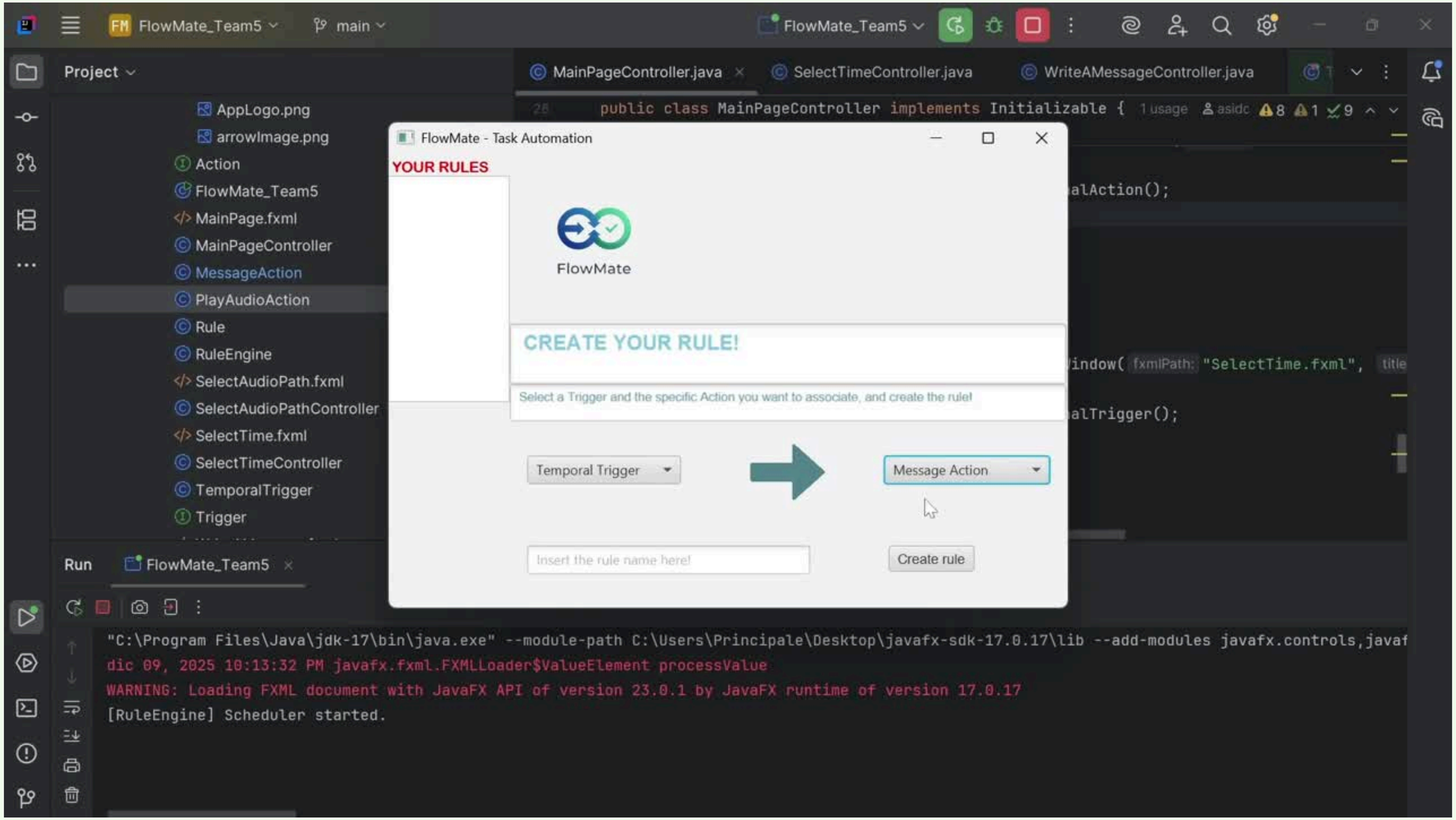
Our application

We apply it by making the RuleEngine constructor private. This allows the system components, to access the shared engine instance via a static method rather than creating separate objects.

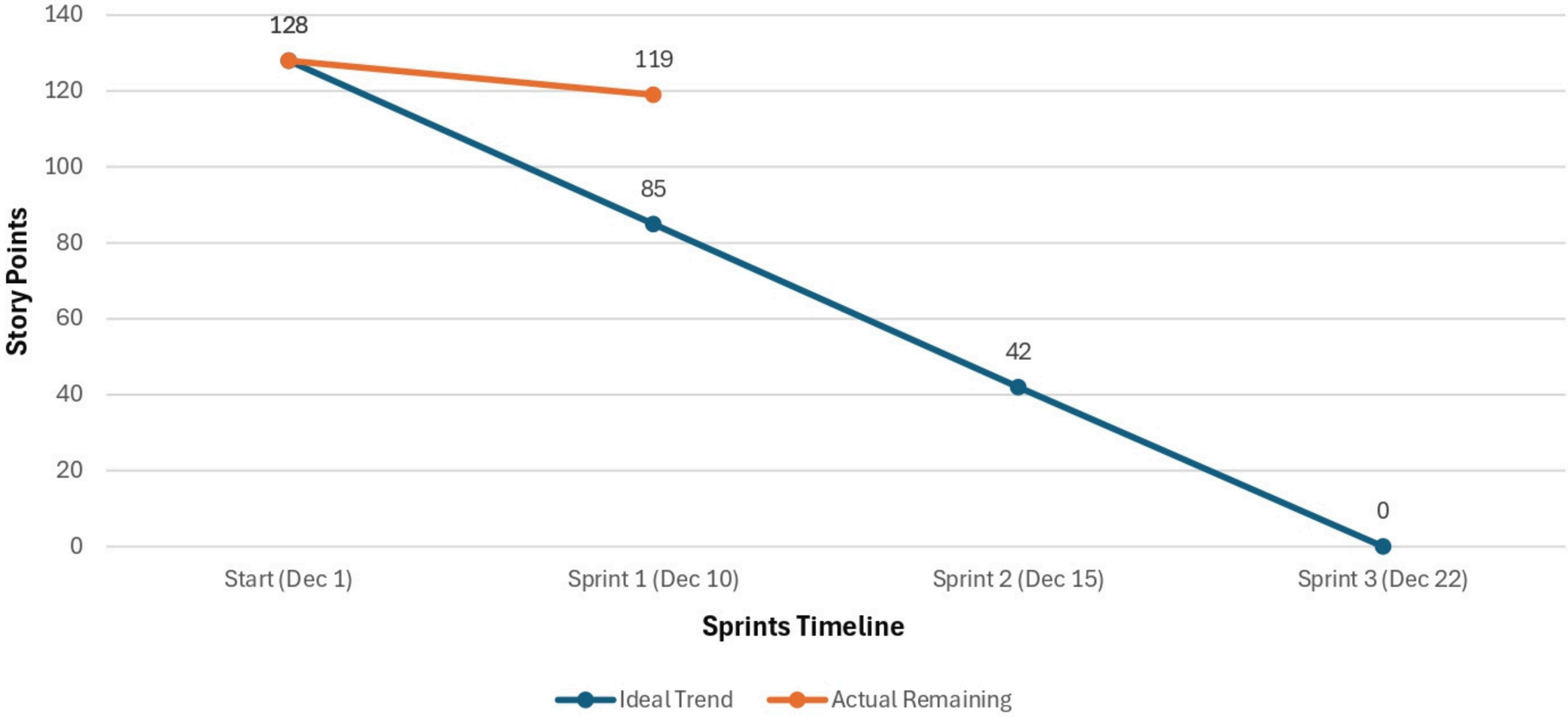
Good design principles

Enforces strict resource optimization by managing a single background thread. Guarantees data consistency, ensuring that the rules defined and the rules checked by the executor always reside in the same shared state.

Product Demo



SPRINT BURNDOWN CHART



Next Sprint Preview

Upcoming Priorities

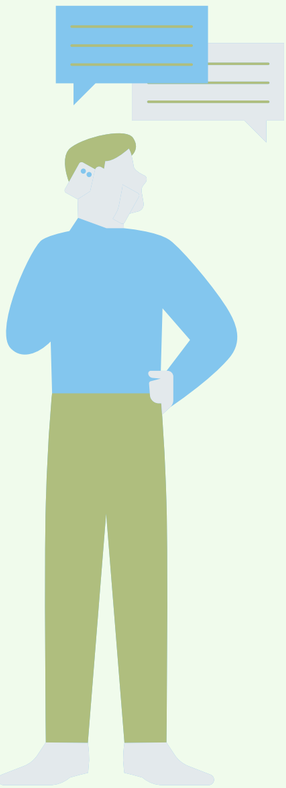
The next sprint will focus on new Action types (Text) and complex Triggers (File), alongside advanced rule scheduling (Repetition/Sleeping Period).

Carry-Over Work

We are acknowledging the tasks that couldn't be completed in Sprint 1 and integrating them into the new plan.

New Commitments

We are prioritizing early technical discussions and transparent task ownership to enhance team collaboration.



2nd Sprint backlog

- **US08: Rule State(Active/Inactive)**
- **US09: Persistence of the rules**
- **US10: Repetition and Sleeping Period**
- **US11: Text Action**
- **US12: File Trigger**
- **US13: File Actions**

Total Story Points: 34 Story Points

THANK YOU FOR THE ATTENTION!