

- Full name: Iván Kaleb Ramírez Torres
- NAO ID: 3357
- Date: September 17th, 2025
- Name of the pathway in which you are enrolled: Bécalos Techno Ready
- Title of the Challenge: **Challenge 2 – Back End Java for Information Processing**

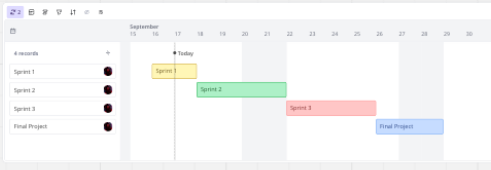
Roadmap Planning Challenge 2

Back End Java for Information Processing

Description

The project involves developing a Back End application in Java to automate the process of integrating JSON files into CSV files. This will enhance efficiency by reducing integration time and generating scientific production reports faster and more accurately, all under the agile SCRUM methodology.

New view



General Objective: Face a real-world problem solving them by completing the deliverables for each Sprint

Specific Objectives: Face a real-world problem solving them by completing the deliverables for each Sprint

People

Search by name or email

Kaleb Torres

Placeholder

Copy of Copy of Backlog view

	Title	Assignee	Status	Estimate	Priority	Description	Start Date	End Date	Color
1	Sprint 1	Kaleb...	In progress	6	High	Document the basic concepts of the SCRUM methodology and the characteristics of JSON and CSV files.	Sep 16, 2025	Sep 17, 2025	Yellow
2	Sprint 2	Kaleb...	To do	24	Medium	Develop a desktop Java program that reads JSON files, converts them into an appropriate data structure, and writes them into CSV files using suitable libraries.	Sep 18, 2025	Sep 21, 2025	Green
3	Sprint 3	Kaleb...	To do	15	Low	Complete the development of the Java program that maps the JSON file and integrates the information into a CSV file, allowing parameter configuration and adding Javadoc documentation.	Sep 22, 2025	Sep 25, 2025	Orange
4	Final Project	Kaleb...	To do	6	High	Integration of the three Sprint deliverables that constitutes the final project, which must be present to the Digital NAD evaluators in two formats: An analysis and results presentation in PDF format and a video in MP4 format.	Sep 26, 2025	Sep 28, 2025	Blue

Sprint planning

Sprint Planning

Backlog : 4

Create a presentation that documents:

- The basic concepts of the SCRUM methodology
- The characteristics of a JSON and a CSV file
- Include descriptive comments in the code to explain the basic functionality of each developed component

Develop the desktop program that includes:

1. Implement in Java Use a popular library for JSON manipulation in Java.
2. Create a Java class with a function to read JSON files. This function must:
 - Parse the contents into an appropriate data structure (e.g., an object or a list).
 - Handle possible exceptions (e.g., file not found, formatting errors).
 - Ensure isolated testing of new functions to validate their correct operation before integrating them into the general workflow.
3. Write CSV files: Use a library to write CSV files in Java.
4. Create a Java class with a function to write data to a CSV file. This function must:
 - Create and write data into a CSV file.
 - Configure delimiters and cell formats as needed.
 - Handle possible exceptions (e.g., write errors).
5. Document using Javadoc: Include Javadoc comments in each function and class to explain their purpose, parameters, and return values. Ensure the documentation is clear and useful.
6. GitHub Repository: Create a GitHub repository and name it according to the project. Make sure to include:
 - A README and file briefly describing the contents and purpose of the repository.
 - All files, code, and documentation related to this Sprint's deliverables, organized in a structured manner. Proper access permissions to the Digital NAD team can review your work.
7. In the README.mil, describe the steps required to review and run the repository contents, along with any relevant additional information.

Current sprint : 1

Sprint 1

Next sprint : 3

Sprint 2

Sprint 3

Final Project

Closed Sprints : 0

Next steps

Deliverables

Sprint 1

- ZIP folder with:
 - Backlog (PDF)
 - Project documentation in PDF format

Sprint 2

- ZIP folder with:
 - Backlog (PDF)
 - GitHub repository link in PDF format

Sprint 3

- ZIP folder with:
 - Backlog (PDF)
 - GitHub repository link in PDF format

Final Project

- ZIP folder with:
 - Analysis and Results Presentation of the Proposal Solution
 - Video Recording

Para una mejor visualización, visitar:

https://miro.com/app/board/uXjVJG5Tstw=?share_link_id=297473677301