- Full name: Iván Kaleb Ramírez Torres
- NAO ID: 3357
- Date: September 21st, 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

Table 2: Prioritize list – Challenge 2

Requirements	Stages (Steps)	Time Estimation	Deliverables
Constructing a backlog for Challenge 2	Identify tasks Prioritize tasks Document backlog	3h	Backlog document
Build a roadmap integrating requirements, dates, participants, and sprints	1. Define timeline2. Assignparticipants3. Organize sprints	4h	Roadmap file (timeline)
Create a presentation: SCRUM, JSON, CSV, with code comments	 Collect content Design slides Export presentation 	5h	Presentation (PDF/Word/Slides)
Implement in Java using a JSON library	1. Choose library 2. Add dependency	2h	Java project setup with JSON dependency
Create a function to read JSON files (open, parse, handle exceptions, test in isolation)	1. Open JSON file 2. Parse into object/list 3. Handle exceptions	6h	Java class JsonReader.java with tests
Use a library to write CSV files	Add CSV library Verify configuration	2h	Configured CSV writing dependency
Create a function to write data into CSV (configure delimiters, handle exceptions)	1. Define CSV structure 2. Write rows 3. Handle exceptions	6h	Java class CsvWriter.java with tests
Add JavaDoc documentation for all classes and functions	1. Write comments 2. Generate docs	3h	JavaDoc comments in code
Create GitHub repository with structured code & documentation	1. Create repo 2. Push files	1h	GitHub repo link
Add README.md (description + setup/run instructions)	 Create file Add description Add setup steps 	2h	README.md file
Provide access permissions for reviewers	Open repo settings Add reviewers	0.5h	Repo access granted

Develop desktop Java program to convert JSON into CSV	 Integrate reader/writer Run program Debug issues 	8h	Main program file
Data transformation: map JSON into CSV structure	 Define mapping rules Implement transformation Validate output 	5h	Transformation algorithm implemented
Parameter configuration (filenames, delimiters via CLI/config file)	 Define parameters Implement parser Test options 	3h	Config options added
Document mapping/validation logic in algorithm	Write explanation Add validation details	2h	Documentation updates
Add JavaDoc (purpose, parameters, usage examples)	1. Write comments 2. Add usage examples 3. Generate docs	3h	Updated JavaDoc
Use verification checklist to confirm functionality & quality	Create checklist Validate items	2h	Completed checklist
Ensure all documentation is clear and complete	 Review files Correct issues Finalize docs 	2h	Updated documentation set
Update GitHub repo with Sprint 3 deliverables	 Commit changes Push to repo 	1h	Updated repo
Make a video presentation explaining analysis & results	 Prepare script Record video Edit final file 	6h	Video presentation file