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Pathway: In-Mexico Program

Title of Challenge: Back End in Java for Information Processing

Sprint 3. Challenge’s Backlog

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# Table 1. User stories

Here are shown the five user stories and the requirements of each, based in Challenge 2 and related with the activities of each sprint.

|  |  |
| --- | --- |
| User stories | Requirements |
| As a learner, I want to document information about the type of files to understand how they are written. | * Investigate about JSON files. * Investigate about CSV files. * Investigate about Scrum methodology. * Prepare a slides presentation. |
| As a learner, I want to create a new repository to keep track of updates. | * Create a new repository in GitHub. * Clone the repository into the local repository. |
| As a learner, I want to prepare my environment to be able to use Java. | * Verify Java version. * Install Java 17 if needed. * Install IntelliJ IDEA. |
| As a learner, I want to develop a desktop Java program that converts JSON files into CSV files to complete the Challenge. | * TBD |
| As a learner, I want to stablish an analysis and results presentation to conclude this challenge. | * Prepare the presentation showcasing the results * Prepare a videography of results |

# Table 2. Requirements

|  |  |  |  |
| --- | --- | --- | --- |
| Requirements | Stages | Time Estimation | Deliverables |
| Investigate about JSON files. | -Look up for JSON files definition and characteristics.  -Synthesize information. | 09/17/2025 (2 days) | -Repository link |
| Investigate about CSV files. | -Look up for JSON files definition and characteristics.  -Synthesize information. | 09/17/2025 (2 days) | -Repository link |
| Investigate about Scrum methodology. | -Look up for JSON files definition and characteristics.  -Synthesize information. | 09/17/2025 (2 days) | -Repository link |
| Prepare a slides presentation. | -Select synthesized information.  -Display information selected in slides. | 09/17/2025 (2 days) | -Repository link |
| Create a new repository in GitHub. | -Use GitHub account to create a repository | 09/21/2025 (4 days) | -Repository link |
| Clone the remote repository into local repository. | -Prepare the project document and save it locally  -Upload the project in the repository | 09/21/2025 (4 days) | -Repository link |
| Verify Java version. | -Use terminal to verify Java’s version | 09/21/2025 (4 days) | -Repository link |
| Install Java 17 if needed. | -Download Java 17’s Mac version | 09/21/2025 (4 days) | -Repository link |
| Install an IDE for Java 17. | -Look for the vest IDE for Java. | 09/21/2025 (4 days) | -Repository link |
| Install IntelliJ IDEA. | -Configure the IDE with Maven or Gradle. | 09/21/2025 (4 days) | -Repository link |
| Determine which Java library to use. | -Investigate about different libraries.  -Select the ideal library for JSON and CSV manipulation.  -Add the dependencies needed in the IDE | 09/21/2025 (4 days) | -Repository link |
| Create a class to read JSON files. | -Determine functions from the library used needed.  -Use functions to open and parse file’s content. | 09/21/2025 (4 days) | -Repository link |
| Create a class to write CSV files. | -Determine functions from the library used needed.  -Use functions to write a CSV file based of the JSON file’s parsed content. | 09/21/2025 (4 days) | -Repository link |
| Create a class to convert files. | -Stablish the main class for the program.  -Call both classes methods.  -Stablish inputs and outputs to handle the program. | 09/25/2025 (4 days) | -Repository link |
| Prepare the presentation showcasing the results. | -Take evidence of all the deliverables  -Prepare descriptions for every evidence taken | 09/28/2025 (3 days) | -Presentation in PowerPoint |
| Prepare a videography of results. | -Prepare a sequence for the videography  -Select an ideal environment to make the videography  -Prepare lighting  -Use the descriptions of every evidence | 09/28/2025 (3 days) | -Videography uploaded in OneDrive |

# Repository’s Link

This is the GitHub Reporsitory’s link for this project’s version control.

<https://github.com/jafmoralesss/Java-Program-for-file-format-conversion>