Table 1

User Story		Requirements
1.	As a user, I want the system to	The system must allow users to load
	convert JSON data into CSV format so	JSON files and generate valid CSV
	that I can analyze it in Excel or other	outputs that are compatible with tools
	programs.	such as Excel.
2.	As a user, I want the application to	The system must allow users to select a
	save the CSV file on my computer so	save location, generate files with user-
	that I can reuse it for future analysis.	friendly names, and ensure they are
		stored without accidental overwriting.
3.	As a user, I want the program to	The system must validate the JSON
	validate JSON file formatting so that I	structure before processing and notify
	can avoid errors during the	the user with clear messages when the
	conversion.	file is invalid, preventing the conversion
		until corrections are made.
4.	As an end user, I want the application	The system must provide a graphical
	to have a simple interface to select a	interface that allows users to browse
	JSON file and export it to CSV without	and select JSON files, execute the export
	using complex commands.	action with a button, and display
		confirmation or error messages in an
		intuitive way.
5.	As a developer, I want unit tests to	The system must include automated
	ensure the quality and reliability of	unit tests that cover the JSON reader, the
	the code.	CSV writer, and error handling functions,
		ensuring that code quality is maintained
		throughout development.

Table 2

Requirements	Stages	Time	Deliverables
		estimation	
The system must allow users to load JSON files and generate valid CSV outputs that are compatible with tools such as Excel.	2	3	A working Java class that reads JSON input and generates a valid CSV file. Sample input/output files (JSON and CSV) to demonstrate the conversion process.
The system must allow users to select a save location, generate files with user-friendly names, and ensure they are stored without accidental overwriting.	3	3	An implementation that saves the CSV file to the local computer. Screenshots or a short demo showing the save location selection and the generated file stored with a user-friendly name.
The system must validate the JSON structure before processing and notify the user with clear messages when the file is invalid, preventing the conversion until corrections are made.	2	3	Code module that validates JSON formatting before processing. Error logs or screenshots showing clear error messages when invalid JSON is provided.
The system must provide a graphical interface that allows users to browse and select JSON files, execute the export action with a button, and display confirmation or error messages in an intuitive way.	3	8	A graphical user interface (GUI) that allows users to select a JSON file and export it to CSV. Screenshots or demo video showing file selection, export button, and success/error messages.
The system must include automated unit tests that cover the JSON reader, the CSV writer, and error handling functions, ensuring that code quality is maintained throughout development.	2	3	Unit test cases covering the JSON reader, the CSV writer, and error handling. Test reports or console output showing successful execution of all unit tests.