

Functional Requirements

- The system shall display a list of vehicles in a table showing ID, Type, Make, Model, Price, and Status.
- The system shall allow dealers to add, update, transfer, rent, or delete vehicles using buttons in the app after you select a vehicle.
- The system shall allow vehicles to be rented and returned.
- The system shall block sports cars from being rented and show a warning if someone tries.
- The system shall support transferring vehicles between dealerships and update both inventories correctly.
- The system shall allow adding new dealership locations and selecting them from a dropdown menu.
- The system shall load vehicle data from an XML file and allow saving data in JSON format.
- The system shall automatically save changes after each action.
- The system shall load saved data from a local file when the app starts.
- The system shall provide a search bar for quickly finding vehicles by ID, make, or model.
- The system shall allow each vehicle entry to include an image for easier identification.

	<ul style="list-style-type: none"> • The system shall include a filter dropdown to view vehicles by status (Available, Rented) and type (SUV, Sports Car). • The system shall show an error message and continue running if a malformed XML file is loaded. • The system shall show confirmation messages after actions like delete or transfer, and warnings for invalid actions. • The system shall include an “About” menu that explains what the app does. • The system shall offer a simple interface with clear buttons and tooltips for easy use.
Non-Functional Requirements	<ul style="list-style-type: none"> • The system shall complete main actions (such as add, delete, or rent) within one second. • The system shall automatically save data and restore it when the app is reopened. • The system shall be compatible with both macOS and Windows systems running Java 21. • The system shall validate files before loading to prevent broken or invalid data from being processed.

	<ul style="list-style-type: none">• The system shall ensure vehicle data remains accurate when renting or transferring between dealerships.
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