

This overview explores the BeAvis Car Rental System, a contactless car rental agency designed to be completely operable via the internet. This system contains features that will grant clients, with a valid account, to perform and/or allow business transactions, GPS location, rental history access, contract e-signatures, and explore rental options. On the other end, BeAvis employees with valid user accounts will be able to access client account information, vehicle inventory and schedule routine maintenance for vehicles available.

## **Classes:**

**Employee** – The Employee class is responsible for handling tasks that involve viewing customer purchase history and the ability to manage vehicle inventory.

### Attributes - Attributes of the Employee class:

- userID: string – Requires the employees unique userID.
- password: string – Requires a password to access employee account.

### Operations- Operations of the Employee class:

- login(): boolean- Allows accesses to account if employees credentials are valid, if credentials are invalid, account access will be denied.
- manageInventory(): void - Allows employee to navigate vehicle inventory.
- viewClientHistory();void - Allows employee to search client rental purchase history.

**Inventory** – Contains vehicles that are available for customers to rent.

### Attributes - Attributes of the Inventory class:

- vehicles: list<string, Vehicle> - Contains a list of vehicles.

### Operations- Operations of the Inventory class:

- searchVehicle(): Vehicle – Allows employee to searches vehicle.
- scheduleMaintenece():void – Lets employee schedule maintenance for vehicle