

CFGs Desarrollo de Aplicaciones Multiplataforma

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PROJECT CAR DEALERSHIP

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Overview

We have been contacted by a well-known national company specializing in the sale, maintenance, and repair of vehicles. The sales department has held preliminary meetings to determine the client's needs and the price of the product to be developed.

This project will be developed by a team of no more than three developers. Our company is not willing to invest significantly more resources.

Planned development phases

The following phases are those agreed upon with the client, pending specific dates and finalization of all requirements:

- 1. UI analysis and design.**
- 2. Desktop App Development.**
- 3. Web App Development with Specific Functionalities.**
- 4. Documentation and Manuals.**
- 5. Testing.**
- 6. Deployment and Installation of the Final Product.**
- 7. Maintenance and Functionality Enhancements.**

Specifications

The following notes were made by the sales representative:

- The client company requires an application capable of managing the sales and maintenance workflow in its vehicle workshop (cars, motorcycles, and mopeds).
- The application will offer a login for users.
- Users will have roles, and depending on the role (Sales, Mechanic, Manager), they will have a set of options.

Sales will be able to:

- View all vehicles at the current dealership and at dealerships across the country
- Register customers interested in purchasing a vehicle, as well as those who purchase one, recording their relationship.
- Search and view each customer's profile.
- Make sales offers to a specific customer at a set price and with a validity date.
- Check sales offers and sell the vehicles.
- Vehicles enter the dealership with an arrival date. Sales is primarily interested in selling the vehicles that have been at the dealership the longest, although they can also check vehicles from other dealerships.
- The interface design should be optimized for a desktop computer user.

Mechanics will be able to:

- A head mechanic (there is only one per dealership) can register vehicles to repair and assign them to a mechanic. Each repair will have an estimated time, an estimated cost, and a list of parts/consumables to be used. Not all mechanics can repair all vehicles; each mechanic will specialize in one or more vehicle categories.
- View the work assigned for your shift, start the repair, and complete it.

- Once the repair is finished, you can check the customer's record to notify them that it's complete and available for pickup.
- The interface design should feature large buttons and be very simple.

The manager will be able to:

- View the sales summary for their dealership's vehicles,
- View the unsold vehicle inventory,
- View total sales per sales employee,
- Register new sales employees and mechanics,
- View total revenue from repairs and maintenance.
- The interface design will be web-based, as the manager will not have a dedicated app installed, but rather access a web application to perform these functions.
- Managers cannot register; only sales staff and mechanics can register, and only the manager will have this option.

These requirements can be changed in any way during development, so at each phase the requirements should be reviewed in case there are any changes.