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01

Project plan

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PREPARED BY

Beamer Shop

Status: Open

Version: 0.01

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## 1.0 Project definition

The objective of this project is to develop a web application for a car seller, with the purpose of facilitating the process of selling cars online. The proposed solution will enable the car seller to easily list and manage their inventory, while providing customers with a user-friendly platform to browse and purchase vehicles.

The web shop will feature a wide range of cars for sale focused on the brand BMW, with detailed descriptions and images, allowing customers to make informed purchasing decisions. The platform will also offer a seamless checkout process, providing a secure and efficient payment.

In addition to the online storefront, the web application will include a back-end management system that enables the car seller to easily manage customer information, track sales, and update their inventory. This will provide the car seller with real-time visibility into their business performance, allowing them to make data-driven decisions to optimize their sales strategies.

Overall, the proposed solution will provide a comprehensive and efficient platform for buying and selling cars online, benefiting both the car seller and their customers.

## 1.1 Client

Object-oriented programming teacher, Thijs Naus, together with John Wijnen, will assess and provide feedback on this project, highlighting any areas that require improvement and proposing suggestions for enhancement.

**Contact person:** Thijs Naus  
**Email address:** [t.naus@fontys.nl](mailto:t.naus@fontys.nl)  
**Phone number:** 0885073327

Web-application development teacher, John Wijnen, along with Thijs Naus, will be responsible for evaluating and grading this project.

**Contact person:** John Wijnen  
**Email address:** [john.wijnen@fontys.nl](mailto:john.wijnen@fontys.nl)  
**Phone number:** 0885080449

## 1.2 Team

Alpay Demirci, a second-semester student at Fontys ICT in Eindhoven, responsible for developing this project using his coding experience. Committed to deliver a quality, user-friendly web application that meets the needs of both the car seller and their customers.

**Contact person:** Alpay Demirci  
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## 1.3 Current situation

The car seller currently does not have a web shop to sell their cars and other related products online, which makes it difficult for them to reach a wider audience and manage their inventory effectively. Their main problem is the lack of a user-friendly platform to list and sell their cars and products online, resulting in a slower and less efficient sales process.

## 1.4 Problem description

The car seller is facing the challenge of not having an online platform to showcase their cars for sale, which limits their potential customer base and makes it difficult for them to manage their inventory effectively. Without a web shop, they are missing out on the opportunity to reach a wider audience, offer quick payment options, and provide detailed information about their cars.

From the customer's perspective, the absence of an online store means they are unable to browse and purchase cars at their convenience. They are also limited in their ability to obtain detailed information about the cars for sale and compare prices with other dealerships. This lack of accessibility and transparency can make the car-buying process more time-consuming, stressful, and frustrating for customers.

In summary, the car seller's lack of an online platform creates a challenge for both the seller and the customers. The car seller is limited in their ability to reach a wider audience and manage their inventory effectively, while the customers are unable to conveniently browse and purchase cars and may experience difficulties obtaining detailed information about the cars for sale.

## 1.5 Project goal

The goal of this project is to develop a user-friendly web application that enables the car seller to list and sell their cars online, while providing customers with a convenient and transparent platform to browse and purchase cars. The solution should be efficient, secure, and easy to manage, while also offering detailed information about the cars for sale and providing a seamless payment process. Ultimately, the project aims to increase the car seller's online presence, improve their inventory management, and enhance the customer experience.

## 1.6 Deliverables

* Web application reachable for customers
* Desktop application to manage customers/cars
* Project plan
* Documentation
* Prototype
* Wireframes
* Test plan

## 1.7 Non-deliverable

* Manual
* Hardware
* Free hosting
* Training

## 1.8 Constraints

Kickoff: 23 February 2023  
Deadline: 16June 2023

* Car seller should be reachable for contact at least once every week.
* The development team is committed to keeping the car seller informed of any potential delays in the project timeline.

## 2. Phasing

The planning for this project will involve a comprehensive approach to project management, including the establishment of clear objectives, timelines, and deliverables.

|  |  |  |
| --- | --- | --- |
| ***Activity*** | ***Week*** | ***Hours*** |
| ***Requirements Gathering*** | | |
| *Meeting stakeholders* | *1* | *2* |
| *Analyze desires* | *1* | *2* |
| *Setup git repository* | *1* | *0.1* |
| *Setup ideation document* | *1* | *1* |
| *Write project plan* | *2* | *2* |
| *User Requirement Specification* | *2* | *3* |
| ***Design*** | | |
| *Sitemap* | *2* | *0.5* |
| *Wireframes* | *2* | *1* |
| *Class diagram* | *2* | *4* |
| *Database diagram* | *3* | *2* |
| *Implementation* | | |
| *Setup programming environment* | *3* | *1* |
| *Build front-end pages (html/css)* | *3* | *6* |
| *Build database* | *3* | *3* |
| *Relate tables in database* | *3* | *0.6* |
| *Add dummy data in database* | *4* | *0.5* |
| *Connect application to database* | *4* | *0.5* |
| *Display data on web application* | *4* | *2* |
| *Build filters for catalog* | *4* | *2* |
| *Build shopping cart* | *4* | *4* |
| *Build account login/registration* | *4* | *2.5* |
| *Add sessions for login and cart* | *4* | *4* |
| *Checkout functionality* | *4* | *3.5* |
| *Tax/discount calculations* | *5* | *3* |
| *Desktop app CRUD users* | *5* | *7* |
| *Desktop app CRUD products* | *5* | *6.5* |
| ***Testing*** | | |
| *Test for database errors web app* | *5* | *1* |
| *Test for database errors desktop app* | *5* | *1* |
| *Test session bugs and glitches* | *5* | *1* |
| *Test design and responsiveness web app* | *5* | *1* |
| *Fix issues* | *5* | *4.5* |
| *Feedback* | *5* | *0.6* |
| *Final testing round everything* | *5* | *1* |
| *Fix issues* | *5* | *2* |
| ***Deployment*** | | |
| *Host application and database* | *6* | *1* |
| *Showcase* | *6* | *1.5* |
| ***Maintenance*** | | |
| *Post-deliver meeting* | *7* | *1.5* |
| *Potential fixing* | *7* | *2* |