



Sam Auto

Sam Auto

Software Application

Project Plan

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1. Project definition

1.1 Client

Sam Auto Car Dealership

Contact person: Michael Smith (CEO of *Sam Auto*),
m.smith@samauto.org +31 682 75 9594

Company email: s.auto@gmail.com

1.2 Developer

Samuil Vasilev Kozarov

Contact phone: +31 661 70 1214

Contact email: s.kozarov@student.fontys.nl

1.3 Current Situation

Sam Auto is a well known car dealership in town that offers a wide variety of vehicles (cars, trucks, motorcycles) and has been on top of the business for the past few years. It sells them in its yard outside the city centre where everybody can go and explore all available vehicles from 12pm to 6pm during the weekdays. Currently there are two staff members who collect the sales data in a notebook and when a customer makes a purchase, the data about it is added manually by one of these two employees. Afterwards the notebooks are stored in the office for future references. Recently there has been an increase in the number of people visiting *Sam Auto* and their yard is overcrowded throughout all their open hours. The only contact resource *Sam Auto*

currently has is a single phone. It is constantly ringing due to customers' attempts to receive more information as they are unable to visit the dealership yard.

1.4 Problem Description

The rising popularity of *Sam Auto* brings new challenges to the business, which leads to facing new difficulties. The process of adding new sales data is overloaded, as it is done manually by only two people in a single notebook that other staff cannot access. This leads to long waiting times for customers, discouraging them and causing some to cancel purchases.

The limited access to data also makes it difficult to provide good customer service, leading to stressed and exhausted employees. Some staff are planning to quit, and the CEO is concerned that new, modern competitors with better management systems, could lead to a drop in sales.

Sam Auto is valued for its great price-quality ratio, but the inability to provide excellent service and allow customers to properly view and test vehicles threatens its leading position in the market. The CEO is concerned these issues could negatively impact the business.

1.5 Project Goals

The primary goal is an application that will improve the current data management. It will offer to the staff members an organised access to all vehicles and their related characteristics and data, including sales, and order data, all supported with statistics. Customers of *Sam Auto* will have 24/7 access to a web interactive catalogue to explore

vehicles, mark favourites, save for later, and rate. By implementing these changes, the new software aims to organise the managing system of the company and improve the relationship between the business and its customers.

2. Software Description

2.1 Deliverables

- Software product (including desktop and web interface)
- Demo presentation including:
 - Description of what features it has
 - How to use the staff interface
- Documentation

2.2 Non-Deliverables

- Training manual for future users
- Source Code

2.3 Constraints

- Deadline: Jun 14, 2024 4:00pm
- Desktop application should be developed using Windows Forms .NET Core
- The web application should be developed using ASP.NET Core Razor Pages
- MSSQL database should be used for data source
- GitLab must be used

3. Phasing

3.1 Documentation

- For the documentation process 20 hours will be dedicated. All the time will be designated to the User Requirement Specifications document, containing information of what the user to expect the final product to be able to do

3.2 Project Set up

- For the project set up components 1 hour will be dedicated and will set the base for of the project

3.3 Design

- For the project design 25 hours will be dedicated and the included components will be consecutively done in the order listed below:
 - The UML Class Diagram will take 10 hours
 - The application design will take 10 hours
 - The visual design will 5 hours

3.4 Code Implementation

- For the code implementation 195 hours will be dedicated and will include the components listed below:
 - Desktop Application Code implementation will take 110 hours and will include features such as vehicle data and sales management
 - Web Application Code implementation will take 70 hours and will include features such as vehicle browsing and interactions like saving, rating and bookmarking vehicles
 - Database implementation will take 15 hours

3.5 Test

- For the test and analysis part 55 hours will be dedicated and will include the components listed below:
 - Testing plan will be created in the beginning and updated every second week and will be used as a manual for test reports. 5 hours in total will be allocated for it.
 - A Test Report will be created once every two weeks during the given time frame. There will be 5 of them in total, each taking 10 hours.

3.6 Deliver Final Version

- The final touches will require 10 hours and will include final documents formatting and software deployment

Total work hours estimation: 306 hours

Phasing – Individual Project

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