**Car Rental System**

On the job training (OTJ) project

Made by

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# ABOUT THE OUR PROJECT

The Car Rental System is a comprehensive software application developed in C++ that enables the efficient management and rental of vehicles for short periods. The system consists of multiple components designed to handle various functionalities, such as vehicle types, search interfaces, services, reservation cancelations, and payment flexibility. This documentation provides an overview of the system's features, expectations, and requirements.

# PROJECT DESCRIPTION

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| **#** | **Description** |
| **1** | The idea in general.  The idea is to create Car Rental System. |
| **2** | How can you access the project?  You can find my project on GitHub. You can access the files by installing the repository or pasting this to your console - https://github.com/DNDonchev20/na-ivan-proekta.git |
| **3** | What technologies are used?  The technologies we used are **Visual Studio** as our IDE, **GitHub** as storage space, **Microsoft** **PowerPoint** for creating the presentation, **Microsoft** **Word** for creating documentation, **Test Case Lab** for the QA tests, and **Figma** for the design. |

# PERFORMED TASKS

|  |  |
| --- | --- |
| **#** | **Completed tasks** |
| **1** | Create the design  When I knew how we wanted my project to look like I made the design. |
| **2** | Include database  From the beginning, I were sure that we wanted to create a database for my project so that’s what I did. |
| **3** | Make the main part of our app  In this stage, I started the main part of our project - the app. |
| **4** | Create QA documentation  In the QA documentation, you can find a description of the steps and actions that have been taken to test the functionality of our app. |
| **5** | Make the README file  In the readme file, you can get a quick overview of the project. |
| **6** | Make the documentation  The documentation provides very useful information in terms of the technical aspect. You can learn pretty much everything by reading it. |
| **7** | Make the presentation  We have created a short presentation to quickly show what we have done. |

# FEATURES

|  |  |
| --- | --- |
| **#** | **Description** |
| **1** | Authentication  The system supports two types of users: customers and receptionists. Authentication mechanisms ensure secure access to the system. |
| **2** | Vehicle Types  The Car Rental System accommodates different types of vehicles, including cars, trucks, vans, and motorcycles. It further categorizes them based on subtype classifications such as economy, luxury, standard, compact, passenger, cargo, cruiser, touring, sports, light-duty, medium-duty, and high-duty. |
| **3** | Users Management  The system maintains a record of customer reservations, including the details of the reserved vehicles and issuance dates. It also allows customers to cancel their reservations. The vehicle log feature tracks all relevant events related to each vehicle. |
| **4** | Equipment and Services  Customers can enhance their reservations by adding equipment such as ski racks, child seats, and navigation systems. Additionally, they can avail services such as drivers, Wi-Fi, and roadside assistance. |
| **5** | Projects Management  The system ensures timely returns by sending notifications to customers and generating fines for late returns. Users can search for vehicles by type or model. The system is designed to manage multiple branches of the car rental system, each equipped with parking stalls for vehicles. |