FUNCTIONAL and TECHNICAL REQUIREMENTS

DOCUMENT

*Configurator Car App*

*Developed by:*

Cadar Andrei Calin Student at Technical University of Cluj-Napoca

## TABLE OF CONTENTS

Table of Contents

Contents

[TABLE OF CONTENTS 2](#_Toc124424672)

[1.0 GENERAL INFORMATION 1](#_Toc124424673)

[1.1 Purpose 1](#_Toc124424674)

[1.2 Scope 1](#_Toc124424675)

[1.3 Project References 1](#_Toc124424676)

[1.4 Acronyms and/or Definitions 1](#_Toc124424677)

[4.0 PERFORMANCE REQUIREMENTS 2](#_Toc124424678)

[4.1 Specific Performance Requirements 2](#_Toc124424679)

[5.0 ADDITIONAL SYSTEM REQUIREMENTS 2](#_Toc124424680)

[5.1 System Description 2](#_Toc124424681)

[- Features 3](#_Toc124424682)

## GENERAL INFORMATION

## Purpose

The purpose of this document is to provide technical information about the project and some help in how to use it

## Scope

The Car configurator app will

* + - Allow a user to configure a car
    - Allow a user to see previous configured cars tied to his account

## Project References

Key documents supporting this proposal are listed below as reference:

* + - Spring Boot documentation
    - Stack Overflow
    - W3 School

## Acronyms and/or Definitions

**API** Application Programming Interface, a set of protocols or standards for communicating with web-based applications

**HTML 5** HyperText Markup Language; the fifth and current version of the HTML standard

**JavaScript** Programming language used extensively in website development

**MySQL** Open-source database management system

**RESTful API** An API that uses a standard set of HTTP requests

#### Functional Requirements

In order to accomplish the above articulated need, the FDP Expanded Clearinghouse requires a community-wide data collection and management system that includes the following base functionality: **(*See Appendix B for system mock up)***

##### Data Accessibility

* + Profile data is available for direct system-to-system access via an HTTP API (read only)

##### User Accounts

* + User accounts are password protected
  + Passwords are bCrypt encrypted

## PERFORMANCE REQUIREMENTS

## Specific Performance Requirements

#### Accuracy and Validity

The system will employ numerous data quality assurance techniques, including but not limited to:

* Input masks
* Drop down lists
* Basic data logic warnings (e.g., Credentials wrong)

#### Timing and Capacity

The system is intended to be available online 24 hours per day, 365 days per year with the exception of scheduled and pre- notified system maintenance downtimes, if needed.

## ADDITIONAL SYSTEM REQUIREMENTS

## System Description

The server can run on any PC/Server with internet connection, it needs any web server installed preferably with PHP, any java IDE isntalled that can tun a spring boot application and a running MYSQL server.

*Appendix A*

Car configurator app

# Features

# Index:

# Th user has a webpage with the title of the app and he can choose If he wants to login or register

1. Register:

* One who want to use the app can press the register button on the index page and he will be redirected to the register page where he will be prompted with a register form with three input fields:
  + - Username
    - Password
    - Confirm password
* If something is incorrect during the register process an error message with a description of the error will appear

1. Login:
   * The user is prompted to a login page where he has to type his username and password
   * If the login is incorrect an error message will appear with the description of the error
2. Configure car page:
   * The user has 3 dropdown menus:

Engine

Rims

Paint

Configured Cars

* + The first three let you configure the car and the 4th one displays a list of configured cars tied to the account.
  + Notice: the rims image will not be displayed only after a paint is chosen
  + The “Configure car” button will appear only when all three properties of the car are set
  + When a selected car is chosen all its properties will be displayed in the left part pf the screen in the table and the images will also be updated.
  + Every time you choose a car part its details will be displayed in the left in a table

##### 6.0 Screen shots















