**Car Price Estimator**

**Lazar Apostolov 11b class**

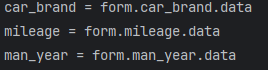
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**1.Application Description**

->My application is simply used for predicting the price of a used car based on its mileage and manufacture year

1.1 Working steps

1. We ask the user to register a new account or to login into an existing one
2. He navigates to the panel with the information input and give the model the parameters it needs (mileage, man-year)
3. After the models receive the parameters, they are redirected to the database where they are saved and the model makes the prediction fully based on it’s training dataset and the result using Linear Regression

1.2 About the dataset the model is trained by

->The dataset was generated using AI techniques and includes a variety of synthetic data points, some of which contain intentional inaccuracies or false predictions to enhance model robustness. It is based on personal experience and logical assumptions regarding mileage values.

* One part of the dataset is taken directly from web application for cars (Mobile.bg, Auto.bg,)

1.3 User Stories

As a user I would like to:

* Have access to the app
* To be able to create username and password only for me
* To have my data saved in a local database with multiple tables
* To see a main panel with navigation bar
* To be able to input the ca brand and other input characteristics manually without constraints
* To see a visualized example of the model
* To be able to send to my teacher and download the diagram

As an admin I would like to:

* Have access to user accounts paragraphs
* Be able to freely create administrator account
* To have my information saved into a local database
* To be able to access the admin panel freely with my admin account

**2.Stages Of Realization**

**1st week** -> cover information and creation of the blueprints

**2nd week** -> main hard work on the auth routes and the register and login html’s

**3rd week** -> finishing up the designs and making the main routes and html

**4th week** -> hard work on the model using Ai and teaching the Linear Regression the dataset

**Final days** -> documentation creation and final touches

Sprint’s table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | The task | The deadline | Is it done | The feedback of the task |
| Week1 | cover information  gain and creation of the blueprints | 14.05 – 22.05 |  | The work was easy and I could distribute my time correctly over the course of the week |
| Week2 | hard code on the auth routes and the register and login html’s design | 24.05 – 31/01.05/06 |  | I sought a hard time with the blueprints because of the venv and interpreter but I fixed it |
| Week3 | finishing up the designs and making the main routes and html | 02.06-10.06 |  | The design is really simple as I used AI and Tailwind so it was easy to produce |
| Week4 | hard work on the model using Ai and teaching the Linear Regression the dataset | 11.06 – 18/19.06 |  | The training dataset is small and it was nothing but I found it hard to combine my theme with the model |

**3.Used Technologies**

1.Python

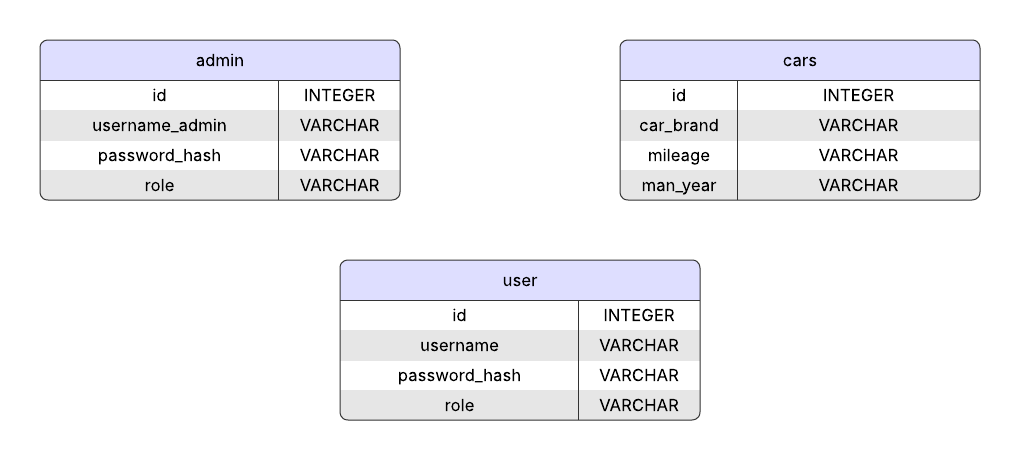
2.Flask (login/blueprints/SQL alchemy/wtf/bootstrap)

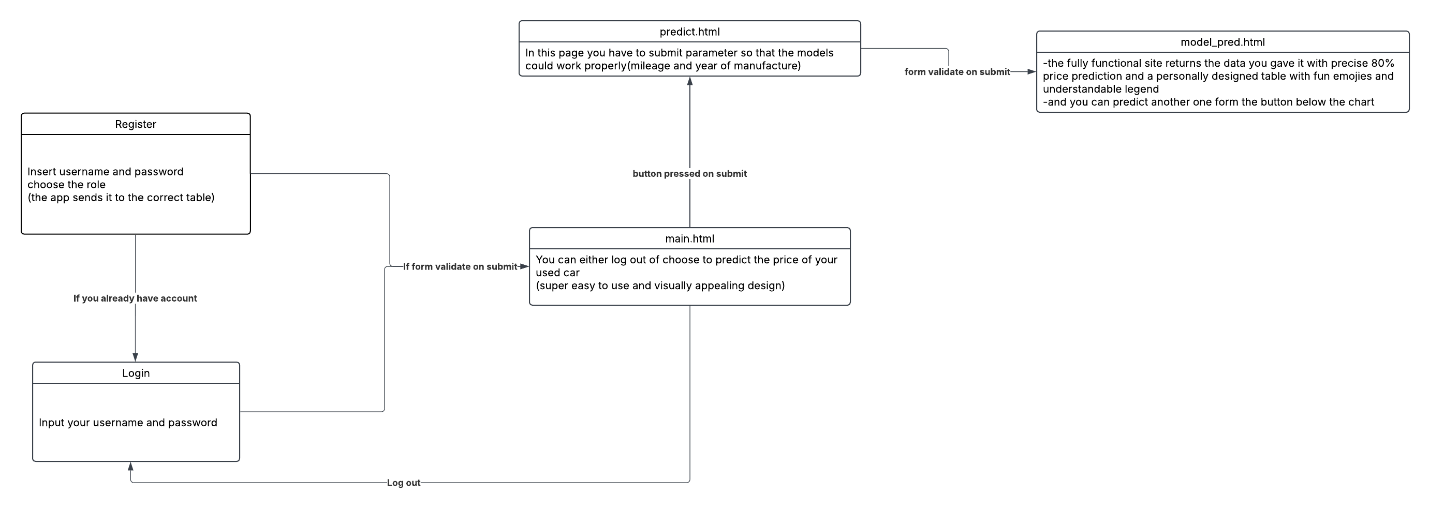
3.Word

4.Power Point

5.Lucid chart

**4.Block Scheme and Diagrams**

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