SOHAMGLOBAL

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Technology is future.

WEB DEVELOPMENT

Python Internship Module-2

An internship assignment to develop a Python web application on Apache HTTP server with MySQL database

Assigned by : ETHAN HUNT

AUTOMOBILE SHOWROOM

Write a small application to manage cars and customers of an automobile showroom in your city.
Following are the suggested activities to be performed in the project.

"Quality means doing it right when no one is watching." - Henry Ford

TOOLS TO BE USED

- Python 3.9 as Language
- MySQL 8 as DB
- HTML5/Bootstrap CSS/JavaScript/Ajax for UI
- Apache HTTP Server/ django
- Flask for REST API
- Visual Studio Code Editor

NOTE

- Create a built in admin user in the database with some userid & password
- Wherever possible use Python data structures, modules, exception handling etc.
- Develop as per your understanding and analysis.
- Make use of proper design, tables and CSS (templates)
- Take only important details about car like no of wheels, engine capacity, company, car photo, fuel type, price, car type (hatchback, sedan, etc.)
- Car photos needs to be stored on server
- Customer will be registered with personal details only. They won't have userid and password for login. This customer data is for showroom reference only.
- Generate unique customer id for each customer.

HOME PAGE

- Login Form
- Company wise searching of cars (Use DropDownList and AJAX)
- Car type wise searching of cars (Use Hyperlinks and AJAX)
- Show all cars list

Follow the guidelines

"Use your creativity, ideas and design"

ADMIN PANEL

- Login
- New Car registration
- Modify car price
- List of cars
- Search a car
- New Customer registration
- Modify customer details like Mobile Number
- Search Customers by unique customer id / Customer name
- List of customers
- Cars search log tracking
- Most searched cars report
- Most searched companies report
- Logout

REST API'S

- Create following RESTful web services using FLASK to -
  - receive model name and return car information in JSON
  - receive customer ID and return customer details in JSON

DATABASE TABLES

- Users
- Customers
- Cars

PROJECT SUBMISSION

- Create a github repository
- Make a zip of your project
- Take database backup or queries
- Upload it to the github respository