Software documentation

1. System Documentation

Introduction

System documentation serves as a clear and concise description of the application. This may be used to inform system administrators or any future developers about the inner workings of the software and its components.

Homepage

The homepage serves as a landing page for users of this service. Access and use of the application is available online publicly and allows employees, established users, or new users to perform a search with our basic filters, which returns another page in which the library of vehicles on offer from the rental company is displayed.

Search

The search page functions like the homepage, but provides a more in-depth set of search filters that return a results page of the library of cars on offer.

Relevant files:
Search.html - HTML page that users interact with to search

View Rental Detail

After viewing the list of cars on the results page, a user may click on a result and be taken to a page that displays more in depth information about the selected car. This information is pulled from the database and there is no editing of data that can take place on this page.

Insert New Data

This page serves as a way to commit or edit vehicle information in the database. This page, and the permission to make edits, is only accessible by employees with the correct account permissions.

Relevant files:
Models.py - class CompHistory is used to add new entries to the company history, including adding new orders, customers, stores, and cars.
Forms.py - class CompHistoryForm is used to add new entries to the database

Search User Details

This search page can be used by employees to locate specific users in the database in order to view their information and history in more detail.

Relevant files:
Filters.py - class UserFilter is used in the search section of the user history page to filter the database.
Userhistory.csv - contains database information

View Customer Details

This page provides an overview on a selected user, whether employee or customer. This page presents information about the user, including real name and contact details.

Search Rental History

This page of the application provides a way for employees to search and view a customer's rental history. A connection to the database is made, and based on customer ID, every vehicle the user has rented will be shown, including details like the date the rental occured and from which store the car was obtained.

Relevant files:
Filters.py - class HistoryFilter is used in the search section of the company history page to filter the database.
Company_rental_history.csv - contains the data relating to rental history.

2. User Documentation

Introduction

Depending on whether you are a customer or an employee, the User documentation listed below serves as a guide to using the car rental application.

Employee guide

As an employee of the car rental service, you must have your own unique employee ID and account in order to interact with this application.

Setting up an account

Register

The staff should be able to register their account with the Rent A Car website so they could have access to the website's functionalities. To register, click on the "Register" button on the main page. Once on the main page, the staff should input all information in the required text field such as name, state, date of birth, email, username, password and agreeing to the website's terms and services by ticking on the checkbox. If the required fields are empty and the registration is submitted, the registration will not be processed and a notification will pop up stating that the fields

are required. Once all required fields are inputted by the Staff, they should click on the "Submit" button.

Login

Once the staff has registered to the website, they should be able to login to the website. Access the login page by clicking on the "Login" button on the menu. Once on the login page, the staff should input their existing username and password on their respective fields. Once inputted, the staff should click on the "submit" button and they will be redirected to the main menu logged in. If the input contains credentials that has not been registered, a notification stating that the username does not exist will pop up. If the staff inputs invalid credentials, a notification stating that either the username or password is incorrect and the login process will not continue.

Search Functions

Rental History

The staff is able to search for any rental history that has been made on the website. To access this feature, the staff should click on the "Rental History" button on the menu, which would redirect them to the rental history page. Once on the page, there will be text fields for various criteria such as Order ID, Pickup store name contains, Customer ID, Customer name contains, Car ID, and Car make name contains. The staff does not have to input all these text fields, but it would help to search specific results. The Order ID and Customer ID input is used to search for a specific Order ID or Customer ID. The Pickup store name contains input is used to search any store that contains a name that is inputted by the staff. The Customer name contains is used to search for any customer that contains any name that is inputted by the staff. The Car ID is used to search for a specific car ID and the Car make name input is used to search for any car makes that contains the name inputted by the staff. The staff should also be able to view more details on the rental by clicking on the "More Details" on the side of any of the rentals.

User History

The staff should also be able to access the User History and search for any specifics in that list. To access the User History page, the staff should click on the "User History" button on the menu. Once on the page, there will be multiple text fields that is used to search the Order ID, Customer ID, Customer name contains, Car ID, Car make name contains, Car Model. The staff does not have to insert input on any of these text fields but it would help them search for a specific user. The Order ID and Customer ID is used to search for a specific ID inputted by the staff for an Order or Customer. The Customer name contains is to search for any customer with any of the name inputted by the staff. The Car ID, Car make name contains, and Car model is used to search for the car's ID, a car make that contains a name inputted by the staff and a specific car model inputted by the staff. The staff is also able to view more details regarding a user and their history by clicking on "More Details" on the side of the results.

Editing Functions

History

The staff is able to add any additional rental history manually. This can be done by navigating to the "Rental History" page and clicking on the "+" icon on the top right of the screen. Once accessed, the staff is able to input any information required about the rental such as information regarding the store, the order details, and the customer information. Once all information has been inputted, the staff should click "Create" on the bottom of the page to create the rental information. Upon doing so, the rental information will be created in the database and will be listed in the Rental History page.

Customer Guide

Setting up an account

Register

On the registration page, the customer will be required to fill in all the fields required. The fields required would be the customer's name, state, date of birth, email, their own username and password. The customer is also needed to agree to the website's terms and services by ticking on the checkbox stating if the customer agrees. Submitting the registration form without filling in any of the required fills would result in a notification stating the fields should not be empty and the registration process will not work. Once the fields are inputted by the customer, they should click on the "Submit" button on the bottom to submit the registration.

Login

On the login page, the customer is needed to use their existing username or password to login and access the website's full benefits. If the customer attempts to log in without any existing credentials, the login will not process and will indicate account does not exist. If the customer inputs a wrong username or password, the login will not process and will indicate that either username or password is incorrect.

Search Functions

The customer is able to search for any available vehicles for rent based off their dates and location. First, the customer should access the main page or by clicking on the "Search" button on the top bar. Once on the search page, the customer is able to fill in the fields to search for their desired requirements such as car type, pick-up location, drop-off location, pick-up date, and drop-off location. Once all the required fields are filled in, the customer should search by clicking on the "Search Now" button

on the bottom of the page, where it will redirect to a list of available cars based off the customer's specifications.

Booking a vehicle

Booking

Once the customer has searched for a vehicle and is on the page with a list of available vehicles based off their requirements, they should be able to pick any of their desired vehicles and book it. They can do this by clicking on "Book Now" on any of the vehicles, where they will be redirected to a summary page for the vehicle where information about the vehicle and pricing during the duration of the rent will be included.

Payment

Once the customer is confident in the vehicle they have seen, they will be able to proceed to payment. On the summary page, there will be a "Proceed to payment" button on the bottom. Clicking on this will redirect the customer to a payment page, where they will have to input their credit card information. Once all information has been inputted, the customer should click on "Pay Now" to process their payment. Upon processing the payment, the website will be redirected to a page showing the summary of the booking, and an order ID will be issued to the customer to be used as reference to edit their bookings or picking up their vehicles.