Personal Portfolio Template

Group 70
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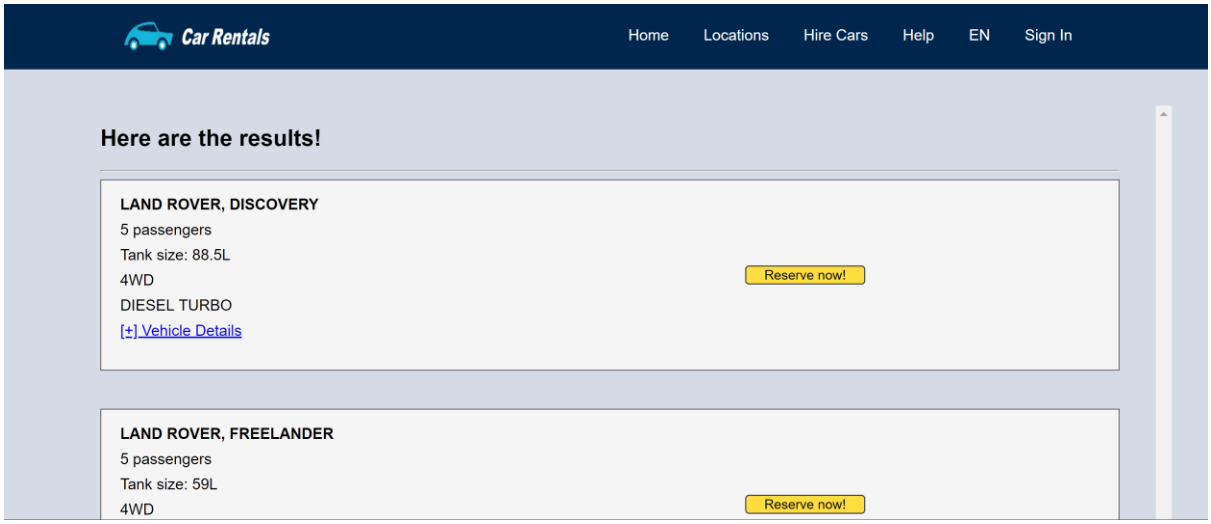
https://github.com/rdugg4/IFB299-Group-70-S.K.R.A.M

Artefact 1 – Data Cleaning and Formatting

The artefact is the code required to clean the data given and split the data ready for entry into the database. The code reads the CSV file given into a list and once cleaned a split-up writes 4 csv files for each table in the database.

The code was used to setup the data in the databased underlying the website. So, the code was indirectly used to test and create functionality of the website referencing the data and to show how the data will be stored in general cases. Final it is used to show how to convert the current system of data management to one that works with the new website.



Artefact 2 – inputVerification Class

This artefact is a python class that verifies inputted information from users with ‘GET’. The class validates the existence of the inputs, and that the input is of the correct form.

The class was used whenever a GET form was submitted to validate the data inputted by the user. If the validation fails, the results are either not filtered by that criteria or a chosen replacement value is used such as the current date for date fields.

Usage of the input verification in the vehicleToBeReturned() function

```
start_date = []
inputVeriObj = inputVerification(request)
if inputVeriObj.checkFormGET(STARTDATE, DATE):
    inputtedDate = givenTime(request.GET[STARTDATE], YMD)
else:
    inputtedDate = currentTime()
start_date.append(inputtedDate.getDate())

ordersToBeReturned = Orders.objects.filter(returndate__gte=start_date[0])
if inputVeriObj.checkFormGET(RETURNSTORE, NUM):
    ordersToBeReturned = ordersToBeReturned.filter(returnstore=request.GET[RETURNSTORE])
ordersToBeReturned = ordersToBeReturned.order_by(RETURNDATE)
```

Usage of the input verification in the vehicleToBeReturned() function continued

```
if inputVeriObj.checkFormGET(ORDERING, ''):
    if request.GET[ORDERING] == DAILY:
        sortLength = 1
        start_date[0] = start_date[0] + sortLength
    elif request.GET[ORDERING] == MONTHLY:
        sortLength = 100
        start_date[0] = start_date[0] + (sortLength - sortLength/2)
    else:
        sortLength = 7
        weekday = inputtedDate.weekday()
        start_date[0] = start_date[0] + (sortLength - weekday)
else:
    sortLength = 7
    weekday = inputtedDate.weekday()
    start_date[0] = start_date[0] + (sortLength - weekday)
```

Artefact 3 – Unit test

This artefact is the unit tests for the timeObject class and its subclasses. The code tests the functionality of the classes making sure that they return the correct values for the given inputs. One of the more complex aspects of this unit test is the mock values for the current time so that the tests work for specific values

The artefact is used in the project as way to verify the results of the timeObject and its subclasses. Making sure that the code if operating in the correct way and to show the client that the code is functioning as expected.

```
(testProject) C:\Users\rdugg\Documents\GitHub\IFB299-Group-70-S.K.R.A.M\SKRAM70>python manage.py test
Creating test database for alias 'default'...
System check identified no issues (0 silenced).
..................
----------------------------------------------------------------------
Ran 18 tests in 0.266s

OK
Destroying test database for alias 'default'...
```

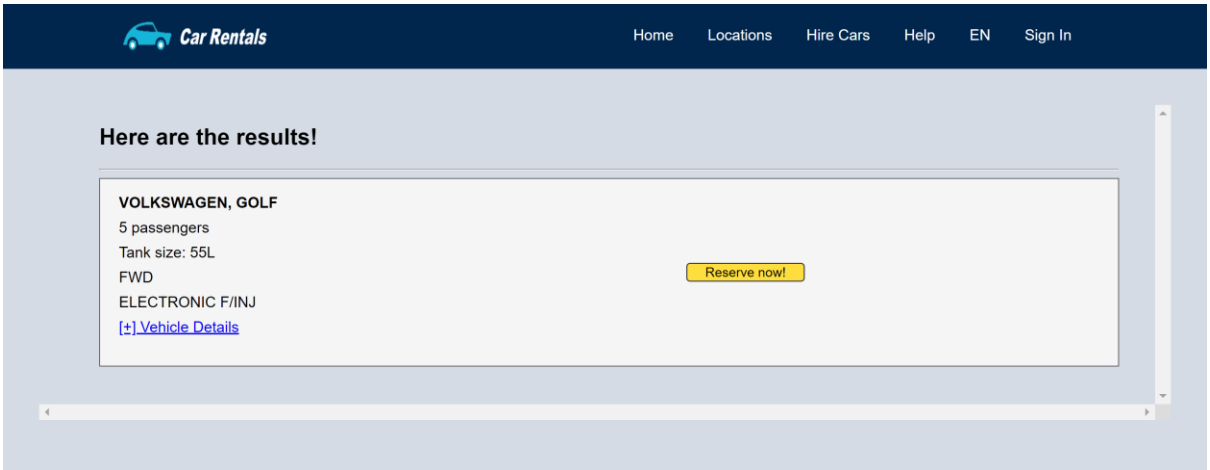
Artefact 4 – Search Function

The search function is a function which takes a request as an input and returns a queryset of results. The function checks each inputted value by the user and depending on this result, filters the result set in different ways. For date based inputs if no date is inputted current time is used instead to filter the results.

This function is used when searching from the index page using the search button. It utilises the inputs given on the page to create a query set result which is then used by the search page to display the set returned by this function.

Search Page inputs

Search Results



Artefact 5 – Class Diagram

(Description about what the artefact is in general)
The final artefact is a class diagram I created showcasing the classes so far in our project. A class diagram shows the classes in the project and how they interrelate.

(Brief description of how it was used/contribution to the project)
The class diagram was used through the code in the code design and execution. The class diagram showcases all the implemented classes in the project and some classes not yet reached in the first sprint.