

Add dynamic pages



Estimated time needed: 1 hour

In the previous module, you created the necessary backend services to manage dealerships and reviews.

It's time to create user-friendly and aesthetic front-end pages to present these services to end users.

Prerequisites:

1. Sentiment Analyzer service deployed on Code Engine should be accessible. Please refer to the previous lab if required.
2. Backend service with Express-MongoDB should be running on one of the terminals. Please refer to [the lab](#) if required.

Environment setup

If your lab environment has been reset and you want to continue what you have done previously, you can `git clone` or pull the latest code from your GitHub repository.

1. Open another new terminal, and you can run `git clone` or pull the latest code from your GitHub repository.
2. Run the following to set up the Django environment:

- 1.
- 2.
- 3.
- 4.
- 5.

1. `cd /home/project/xrwm-fullstack_developer_capstone/server`
- 2.
3. `pip install virtualenv`
4. `virtualenv djangoenv`
5. `source djangoenv/bin/activate`

Copied! Executed!

3. Install the required packages by running the following command:

- 1.
1. `python3 -m pip install -U -r requirements.txt`

Copied! Executed!

4. Run the following command to perform model migration:

1. 1

2. 2
3. 3

1. python3 manage.py makemigrations
2. python3 manage.py migrate
3. python3 manage.py runserver

Copied! Executed!

Add and set up REACT Component for Dealers Page

1. Open frontend/src/App.js and import and add the Dealers component in the top along with other components. This component has already been created for you and uses a table element to list the dealers. Feel free to change the look and feel.

1. 1

1. import Dealers from './components/Dealers/Dealers';

Copied!

2. Add the route for /dealers to render the Dealers component.

1. 1

1. `<Route path="/dealers" element={<Dealers/>} />`

Copied!

3. Open server/djangoproj/urls.py and add the routes for Dealers and Dealer in it.

1. 1

1. `path('dealers/', TemplateView.as_view(template_name="index.html"))`,

Copied!

4. Open a new terminal and build the front end as before.

1. 1
2. 2
3. 3

1. cd /home/project/xrwm-fullstack_developer_capstone/server/frontend
2. npm install
3. npm run build

Copied! Executed!











3. Go back to the terminal where you set up the Python environment and see if the server is running without errors. The server should have restarted when you built the front end. If not, please restart it.
4. Test the get_dealers view in the lab by launching the application with the development server on port 8000, as done earlier. You should see a list of dealers in table format.

Django Application






5. Take a screenshot of the same along with the URL shown in the sample below and save it as `get_dealers.png` or `get_dealers.jpg`.

Dealerships					
Home About Us Contact Us					
ID	Dealer Name	City	Address	Zip	State
1	Holdlamis Car Dealership	El Paso	3 Nova Court	88563	Texas
2	Temp Car Dealership	Minneapolis	6337 Butternut Crossing	55402	Minnesota
3	Sub-Ex Car Dealership	Birmingham	9477 Twin Pines Center	35285	Alabama
4	Solarbreeze Car Dealership	Dallas	5801 Welch Circle	75241	Texas
5	Regrant Car Dealership	Baltimore	9311 Courthouse Square	21203	Maryland
6	Stronghold Car Dealership	Philadelphia	2100 Locust Walk	19104	Pennsylvania
7	Job Car Dealership	Pueblo	9 Cambridge Park	81010	Colorado
8	Bytecard Car Dealership	Topeka	288 Larry Place	66642	Kansas
9	Job Car Dealership	Dallas	253 Hanson Junction	75216	Texas
10	Alphazap Car Dealership	Washington	108 Memorial Pass	20005	District of Columbia

6. Log in with one of the valid credentials through the login panel on top of the homepage and take a screenshot of the dealer details rendered, along with the option to post a review. Save the screenshot as `get_dealers_loggedin.png` or `get_dealers_loggedin.jpg`.

Dealerships						lauvshree	Logout
Home About Us Contact Us							
ID	Dealer Name	City	Address	Zip	State	Review Dealer	
1	Holdlamis Car Dealership	El Paso	3 Nova Court	88563	Texas		
2	Temp Car Dealership	Minneapolis	6337 Butternut Crossing	55402	Minnesota		
3	Sub-Ex Car Dealership	Birmingham	9477 Twin Pines Center	35285	Alabama		
4	Solarbreeze Car Dealership	Dallas	5801 Welch Circle	75241	Texas		
5	Regrant Car Dealership	Baltimore	9311 Courthouse Square	21203	Maryland		
6	Stronghold Car Dealership	Philadelphia	2100 Locust Walk	19104	Pennsylvania		
7	Job Car Dealership	Pueblo	9 Cambridge Park	81010	Colorado		
8	Bytecard Car Dealership	Topeka	288 Larry Place	66642	Kansas		
9	Job Car Dealership	Dallas	253 Hanson Junction	75216	Texas		
10	Alphazap Car Dealership	Washington	108 Memorial Pass	20005	District of Columbia		

7. Click the dropdown for state and select any one to display the dealership for just that state. Take a screenshot and save it as `dealersbystate.png` or `dealersbystate.jpg`.

Dealerships						
Home About Us Contact Us			lauvshree Logout			
ID	Dealer Name	City	Address	Zip	Maryland	Review Dealer
5	Regrant Car Dealer	Baltimore	93 Golf Course Pass	3	Maryland	
12	Tin Car Dealership	Silver Spring	Peeling Lane	8	Maryland	
13	Y-Solowarm Car Dealership	Baltimore	4 Fairness Dr	5	Maryland	
34	Gembucket Car Dealership	Silver Spring	8 G Hill	20904	Maryland	
41	Tres-Zap Car Dealership	Baltimore	9 Sherman Hill	21275	Maryland	

Add REACT Component Dealer showing reviews

1. Open frontend/src/App.js and import and add the route to the Dealer REACT component to the rest of the routes. This will render a dealer-specific REACT page along with the reviews when you click the link on the table of dealers.

This page also has a link to post reviews for the users who are logged in. You will add the Post Review page in the next task.

1. 1

1. import Dealer from "../components/Dealers/Dealer"

Copied!

1. 1

1. `<Route path="/dealer/:id" element={<Dealer/>} />`

Copied!

2. Build the front end again in the same terminal where you built it earlier.

3. Open server/djangoproj/urls.py and add the path for showing the dealer page by including the following code:

1. 1

1. `path('dealer/<int:dealer_id>', TemplateView.as_view(template_name="index.html")),`

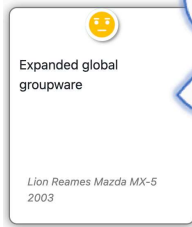
Copied!

4. Refresh the application go to the View Reviews page and click any dealer's name link to see its reviews.
5. Take a screenshot of the same along with the URL in the sample below and save it as dealer_id_reviews.png or dealer_id_reviews.jpg.

Fix San Car Dealership



San Francisco, 9 Har - 94110, California



Sample

Create a dealer details or reviews page

An authenticated user should be able to click this link and add a review for the dealer. We will add a review submission page.

1. Open and view `frontend/src/components/Dealers/PostReview.jsx`. Make any changes to the look and feel as you wish.
2. Import `PostReview` component and add `postreview/<dealer id>` route to `frontend/src/App.js`.

1. 1

1. import `PostReview` from `"./components/Dealers/PostReview"`

Copied!

1. 1

1. `<Route path="/postreview/:id" element={<PostReview/>} />`

Copied!

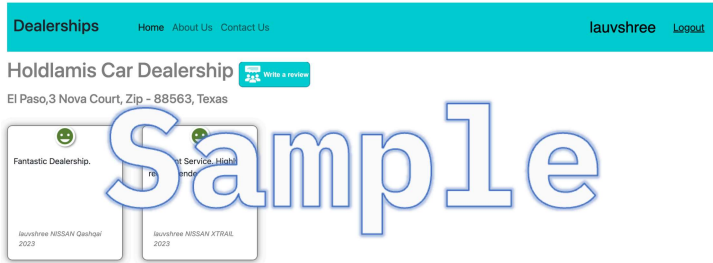
3. Go to the terminal where you built the front end and run the build again.
4. Open `server/djangoprojs/urls.py` and add the path to the post review page by including the following code:

1. 1

1. `path('postreview/<int:dealer_id>', TemplateView.as_view(template_name="index.html")),`

Copied!

5. Log in with one of the registered usernames and passwords. You should see the `Post Review` link. Test the link by adding a review to a dealership.



6. Enter the details of the review and take a screenshot of the same before submitting it. Save it as dealership_review_submission.jpg and dealership_review_submission.png.

Regrant Car Dealership

Excellent Dealership. Highly Recommended.

Sample

Purchase Date
01/12/2023

Car Make
NISSAN XTRAIL

Car Year
2023

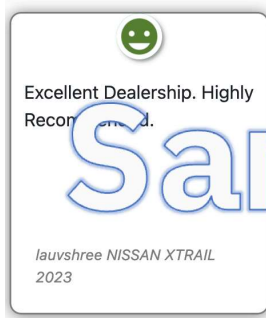
Post Review

7. If the operation is successful, you will see the updated page with your review along with the sentiment.

Regrant Car Dealership



Baltimore, 93 Golf Course Pass, Zip - 21203, Maryland



8. Take a screenshot of the Dealer details page along with the review you posted and save it as added_review.png or added_review.jpg.

Summary

In this lab, you have created a dealer list, dealer details, and a provision for adding reviews. At this point, you have completed the main app development work.

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