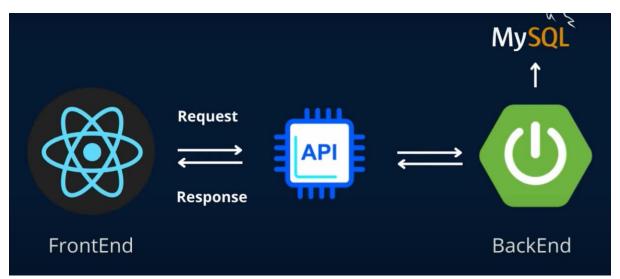
Fullstack Project -Guildelines (installation)

Building a Fullstack Application using spring boot and react



Prerequisites to run the project:

Java jdk and Node js

IDE: Intellij IDEA (spring boot)

VS code (react)

MySql Database

Postman (for testing API)

Detailed Description and Deployment about project:

Created a Project "StationProjectFullStack" where my backend code is present.

I have followed the MVC pattern.

In order to run the application Tomcat should run on port :8080.

Model Package – contains Station Model

Here we create a model class and connects with sql

In order to connect with your database, go to

"src -> main -> resources -> application.properties"

Update the data source $% \left(1\right) =\left(1\right) +\left(1\right) =\left(1\right) +\left(1\right) +\left(1\right) =\left(1\right) +\left(1\right) +\left($ In this application database is "fullstack"

DB commands:

create database fullstack;

use fullstack;

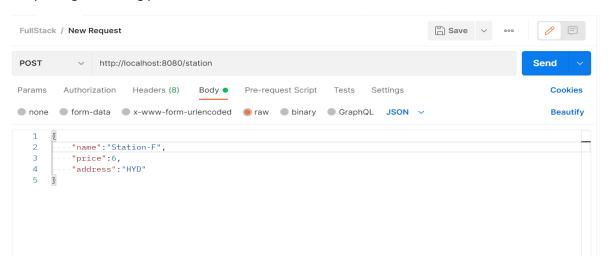
Repository package – Contains Station repository

Controller Package - contains StationController

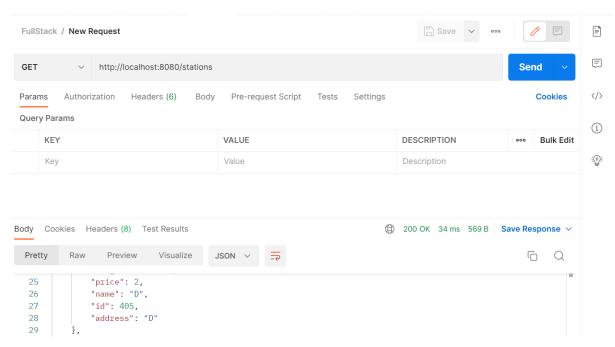
Exception Package – To handle custom exceptions.

Testing with Postman:

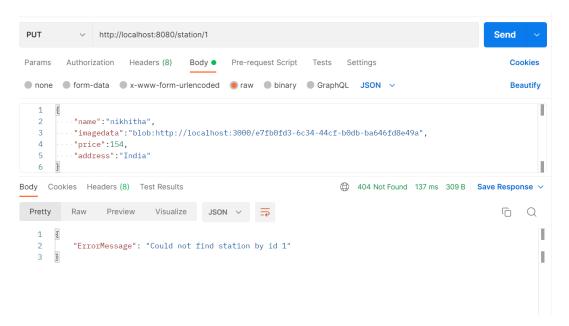
For posting Data using postman:



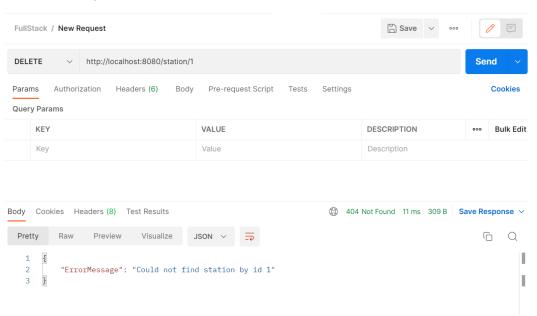
To get all the stations:



To update the data: if no id is present an error message is displayed by using custom exception.



To delete the specific station data:



Frontend code:

For frontend, I created the project "FULLSTACK-FRONTEND"

Which contains modules like

Layout – which contains the navbar



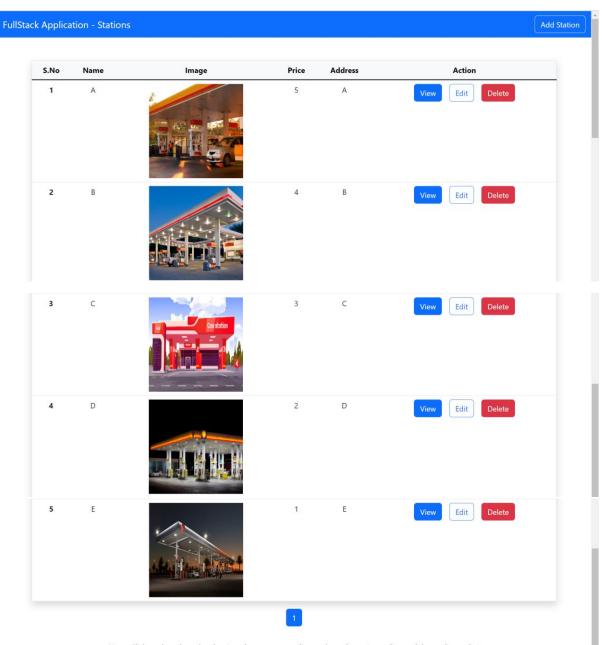
Both frontend and backend applications should be connected. In order to connect go to Project "StationProjectFullStack" in "StationController.java" I have added

"@CrossOrigin("http://localhost:3000")" because my react application is running on port : 3000.

At first we need to start the spring boot application - "StationProjectFullStack"

later react application - "FULLSTACK-FRONTEND"

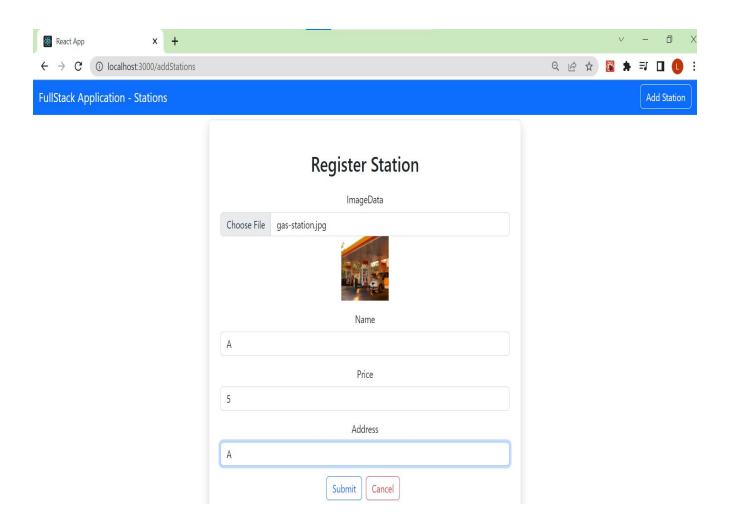
Pages – which contains the Home.js



Note: Click on the column headers in order to sort according to that column. (ascending and descending order)

Stations – which contains AddStations.js, ViewStation.js, Editstation.js

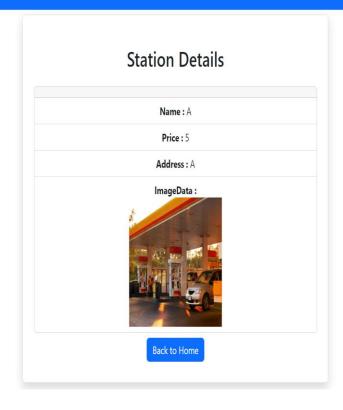
AddStations.js



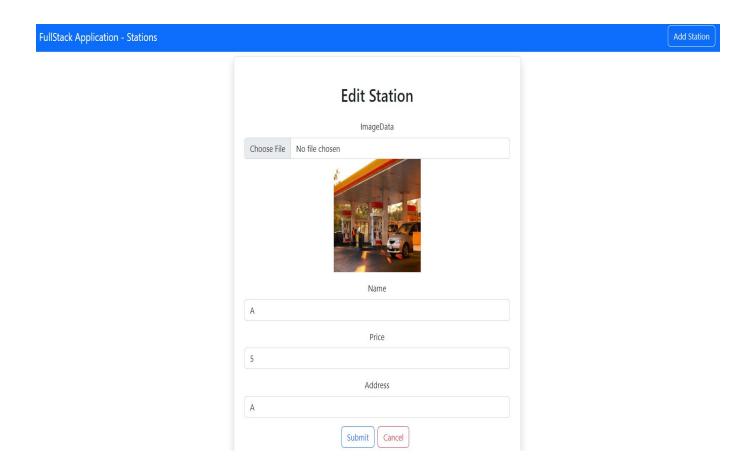
ViewStation.js:

FullStack Application - Stations

Add Station

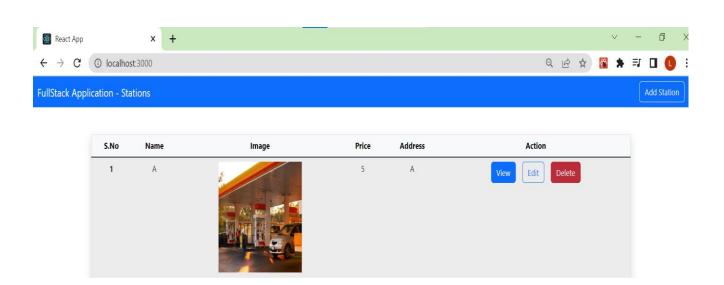


EditStation.js



DeleteStation.js:

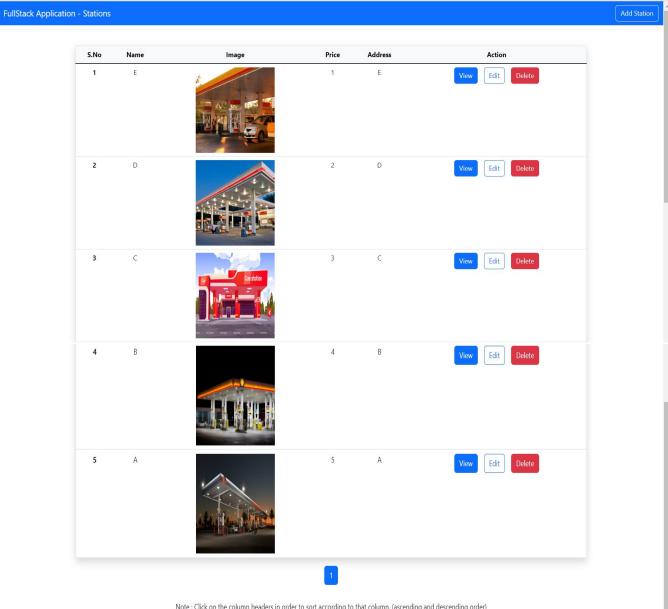
By simply clicking the delete button the station record will be deleted from the database And the remaining records will be loaded.



Sorting according to column name:

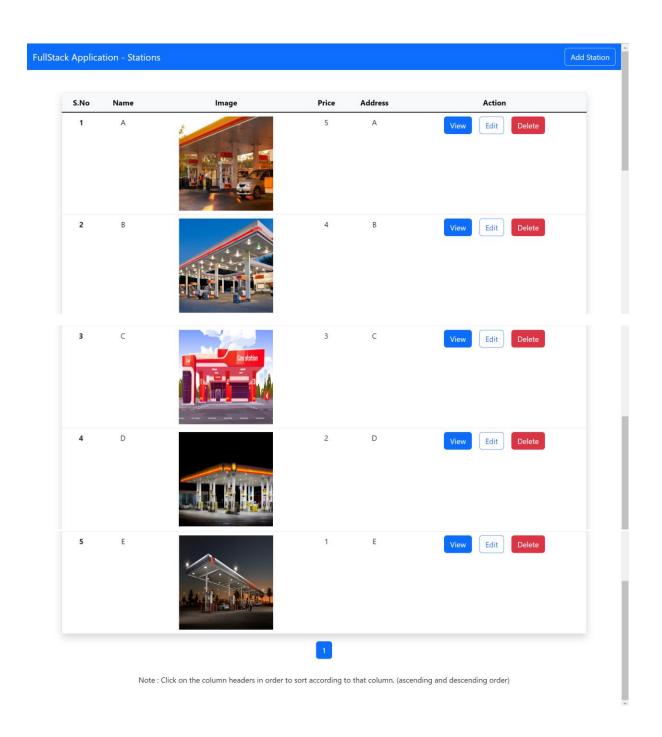
Click on any column name (name,price,address) once you click on any column by default it sorts (ascending order) according to that column and when you click any column for the second time it sorts descending orderly and so on.

Example: At first clicked on price column and the result as follows:



Note: Click on the column headers in order to sort according to that column. (ascending and descending order)

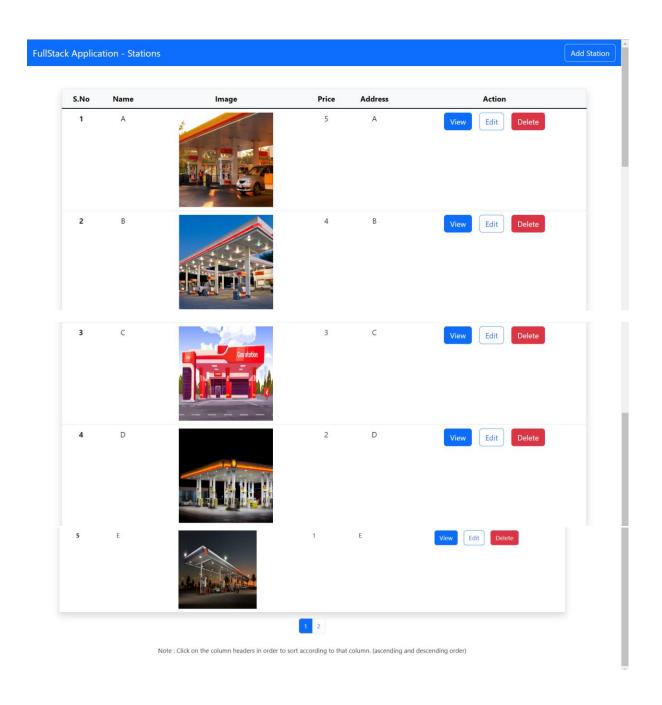
Again, clicked on price column and the result as follows:



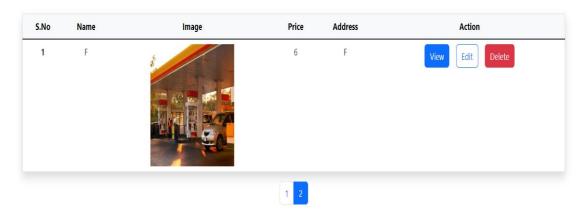
Pagination :

At this point my database contains 6 records and paginated the table as 5 records per page and the result as follows:









Note: Click on the column headers in order to sort according to that column. (ascending and descending order)

And can change the page size using pageSize value: