

Neurohub - Full Stack Web Application



Introduction

The Neurohub API lets you create and modify accommodation request. The purpose of this project is to show the process of developing a Full Stack Web Application that uses the MVC architecture. It showcases an Accommodation Request web-based application where users (student) can save, view, update and delete a request for testing accommodations for approval.

React JS for the Frontend

React JavaScript is used to create a web-based application that communicates with the backend via Spring Tools to Create, Read, Update and Delete actions (CRUD). This application serves as the View component in the MVC model.

Java Spring Tools Suite for Backend

The Java Spring Tools Suite application runs the Controller component of the MVC model by accepting HTTP requests from the View component and converting them to commands for the Model, then sending data back to the View for it to display. MySQL Workbench database that is the Model component of the MVC architecture by providing a dynamic data structure, independent of the user interface.

Local Server is set to host 8081 to separate run instances from another spring application.

API methods

The following methods let you create, read, and update testing accommodation requests:

The Post method uses `students.create` to create a new request.

```
{
  "id": 13,
  "firstName": "Toto",
  "lastName": "Freeman",
  "email": "Toto@gmail.com",
  "accommodation1": null,
  "accommodation2": null,
  "accommodation3": null
}
```

The Get method uses `students.get` to retrieve the entire contents of a specified request in this case by id.

The Put method uses `students.update` to atomically perform a set of updates on a specified record.

The Delete method uses `students.delete` to delete a request records based on the primary key.

Student ID

Students are referenced by their IDs. The ID of a student can be derived from the URL:

<http://localhost:8082/api/students/13>

Video tutorial resources to build Application

Login in page tutorial Login in page:

<https://www.youtube.com/watch?v=aRLoSDOIU3w&t=1459s>

Accommodations Request list tutorial:

https://www.youtube.com/watch?v=XkVpb_8IPUM&t=8713s

&

<https://www.youtube.com/playlist?list=PLGRDMO4rOGcNsCZuMB8ydjDNNWLY69Rpu>

Problems and tribulations

1. Unable to connect login in page to redirect user to the Accommodation request page.
2. Getting FULL Stack Application to run on Heroku
3. Separating both Neurohub and Neurohubbackend on STS (Spring Tools Suite) to run on different local instances. Neurohub (<http://localhost:8081/>) is running on local host 8081 and Neurohubbackend is running on local host 8082 (<http://localhost:8082/>).
4. Auto incrementing is causing consistency issues in the database one a record is deleted.

Other

Neurohub database link: `spring.datasource.url=jdbc:mysql://localhost:3306/neurohubdb`

Neurohubbackend database link:

`spring.datasource.url=jdbc:mysql://localhost:3306/ams?useSSL=false`

Welcome to The Neurohub.info

[List of users](#)

[Register](#)

[Login](#)

Welcome **Arya Edmund**

[Sign Out](#)

List of Users

User ID	E-mail	First Name	Last Name
1	arya@gmail.com	Arya	Edmund
2	maurice@gmail.com	Maurice	Freeman
3	cina@gmail.com	Cinnamon	Edmund
4	tim@gmail.com	Timothy	Edmund
5	michael@gmail.com	Michael	Edmund
6	testing@gmail.com	Test	Edmund
7	testing1@gmail.com	Retest	Edmund
8	testing2@gmail.com	MiniTest	Edmund
9	testing3@gmail.com	MarcoTest	Edmund
10	mac@gmail.com	Mac	Edmund

Sign Up - User Registration Form

E-mail:

Password:

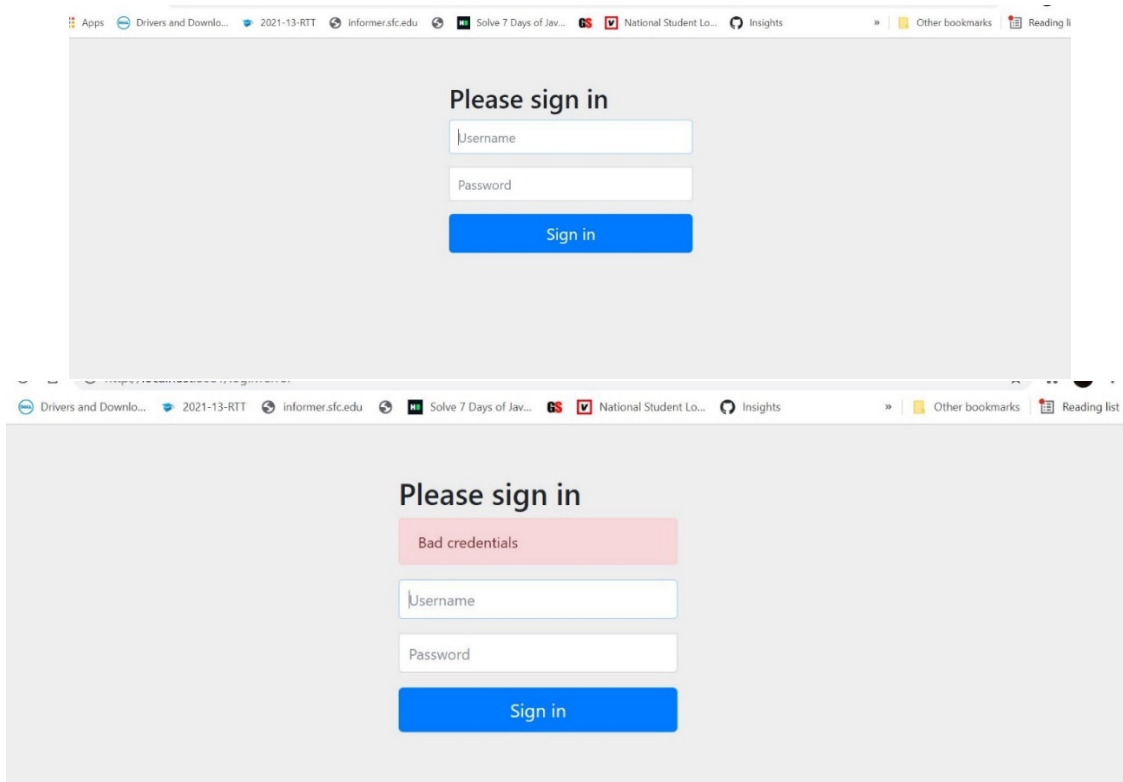
First Name:

Last Name:

[Sign Up](#)

Congratutations you are now registered for Neurohub

[Click here to login](#)



Me : just wrote 200
unsaved lines of code
My computer :

