



Distributed and Cloud System Computing (5CS022)

Firebase (Task 3)

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1. Firebase Setup

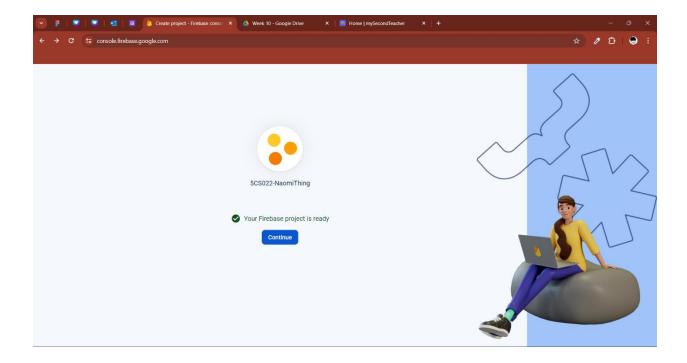
After I successfully signed in to the Firebase, I was led to the console of it, where I got started by selecting the platform.



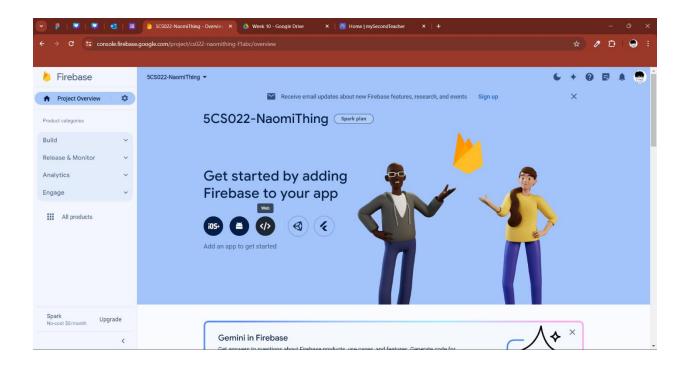
To begin, I navigated to the Firebase Console's home page and there I noticed "Create a project" button and clicked on it to create a project. I entered the project name: "5CS022-NaomiThing" and selected "Continue" to proceed.



This is the process where it shows if our Firebase project is ready or in the process to be ready.



When integrating Firebase with my own application, I chose the "web" option, which uses JavaScript for Firebase operations.

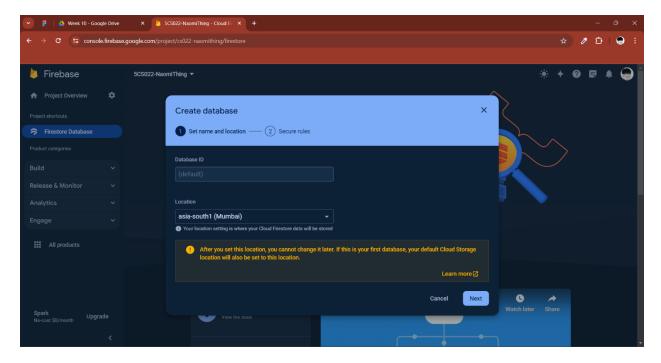


I spotted some JavaScript code that included the Firebase connection information. Before using Firebase services, I carefully copied and saved this code to a text file to gather all relevant information.

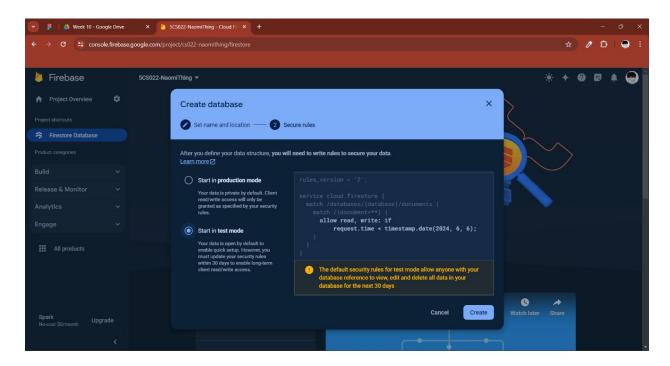
SDK setup and configuration Config npm CDN If you're already using npm ? and a module bundler such as webpack? or Rollup?, you can run the following command to install the latest SDK (<u>Learn more</u> ?): \$ npm install firebase Then, initialize Firebase and begin using the SDKs for the products you'd like to use. // Import the functions you need from the SDKs you need import { initializeApp } from "firebase/app"; // TODO: Add SDKs for Firebase products that you want to use // https://firebase.google.com/docs/web/setup#available-libraries // Your web app's Firebase configuration const firebaseConfig = { apiKey: "AIzaSyD_KrEZKFkGMXSZMdvrMX-A3FHuyQ1FRXI", authDomain: "cs022-naomithing.firebaseapp.com", projectId: "cs022-naomithing", storageBucket: "cs022-naomithing.appspot.com", messagingSenderId: "557526108523", appId: "1:557526108523:web:88a813e41d3c4615eae42e" }; // Initialize Firebase const app = initializeApp(firebaseConfig);

In the console, I clicked on "create database" button and set the database ID to default as prompted.

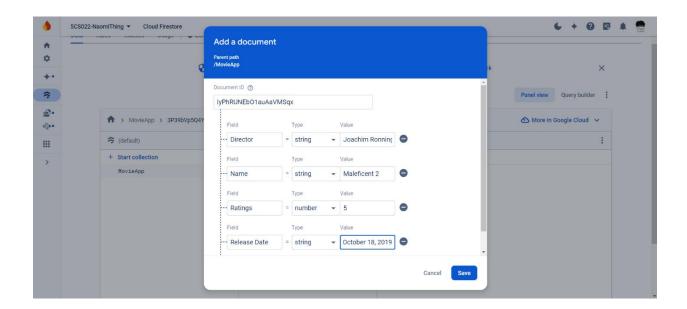
I then clicked on "Next" button after selecting "asia-south1 (Mumbai)" as the nearest location.



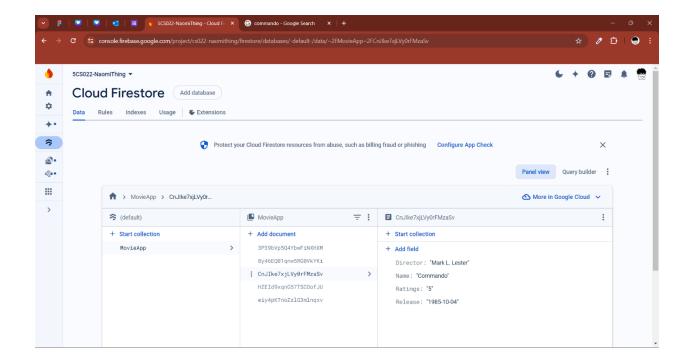
To set up secure rules for the college assignment, I selected the "start in test mode" option after clicking the "Next" button. This database will be accessed by few individuals.



After I clicked on "Create" button, it led me to a page where I could create a database and where I could begin inputting data. In the screenshot below, you can see that this database was created to include a movie review, hence the collection's name is 'MovieApp'. Then, after assigning an ID to the collection, go ahead to add its first document.



Just like that, we add more documents as per our wish.



2. HTML, JavaScript, and CSS

2.1 HTML

Our 'movie.html' file for the web app is an html file that contains all visual components.

2.2 JavaScript

I then have the 'movie.js' file, where I can enter the API keys and authentication information for the Firebase settings. This script file handles everything related to the database. This app does basic CRUD operation like as Adding, Editing, Deleting, and Updating the documents in the database.

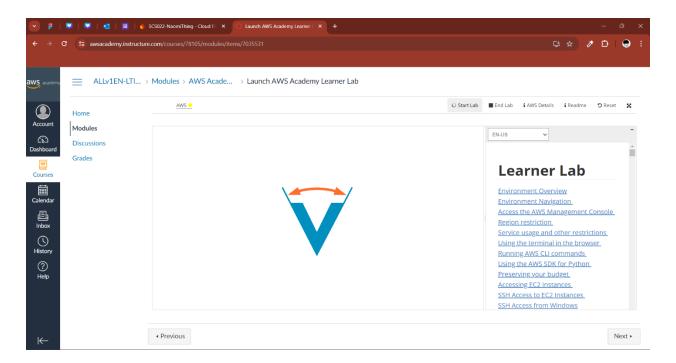
2.3 CSS

After the HTML and JS files, I created 'style.css' file, which contains all of the CSS required for the application to operate.

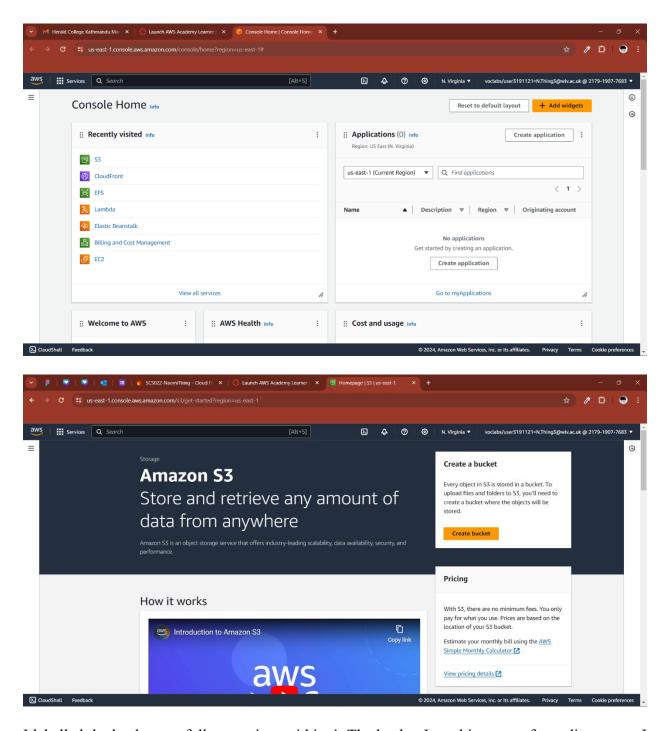
```
80 .btm.hover (
90 | background-color: @80056b3;
91 )
```

3. AWS Hosting

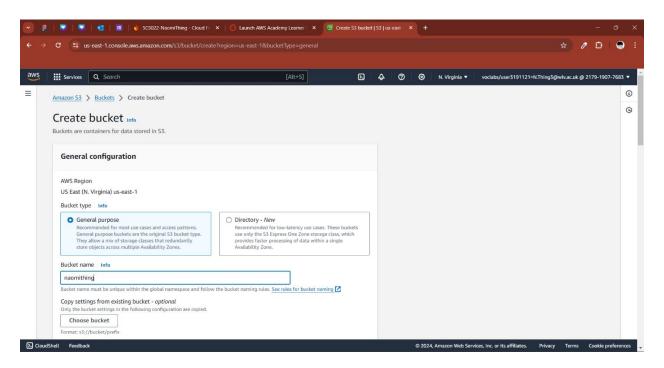
Moving further, the snapshot below shows the webpage after launching the AWS lab. This is the AWS lab's console. To deploy the programme, I use Console Home to create buckets and do other essential tasks.



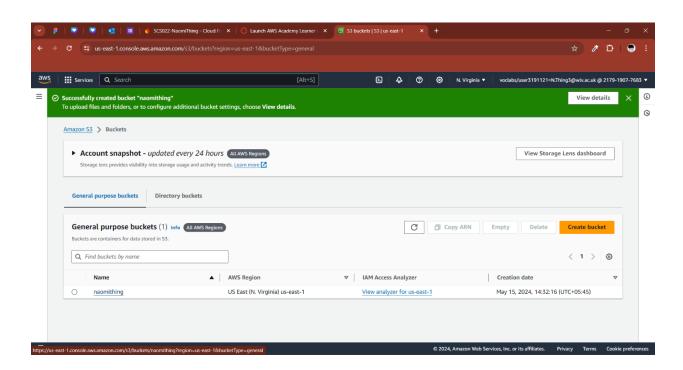
When you click the AWS button, the website will redirect to the Console Home page. To send the code to an S3 bucket, I select that possibility. The following screenshot shows the process of creating a bucket.

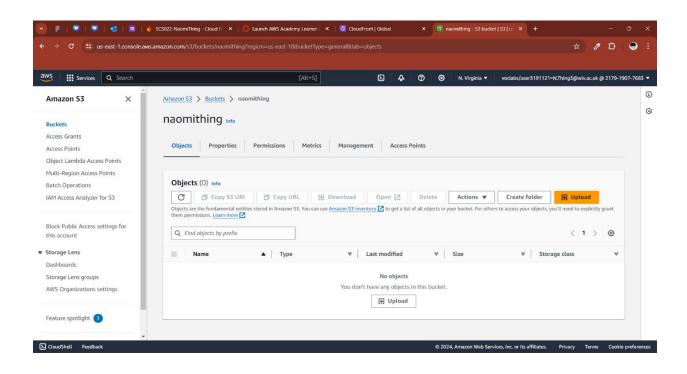


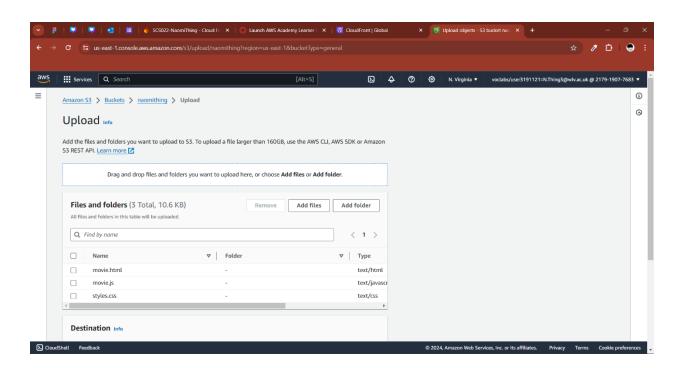
I labelled the bucket my full name; 'naomithing'. The bucket I used is proper for ordinary use. I left all other fields as they were and moved on to the next page.



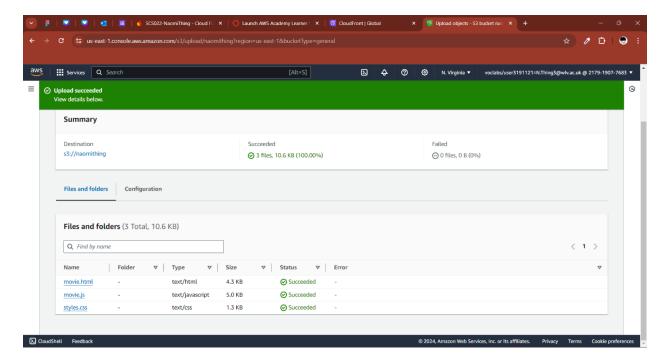
I made the first bucket, then I opened it and uploaded the files. I simply needed to upload three files, as previously shown.



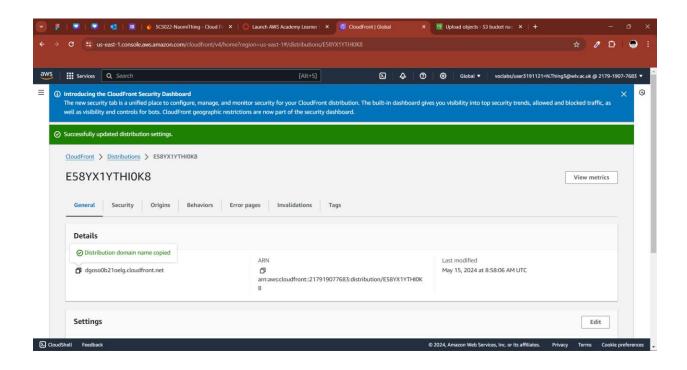




After uploading, my application required more tuning and modification to function correctly.

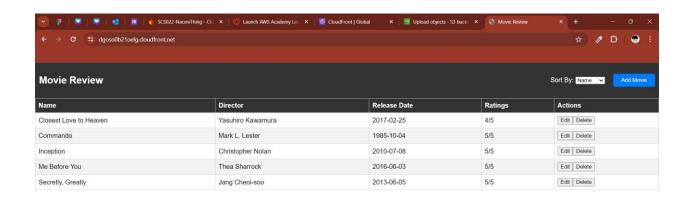


After making all the necessary modifications to ensure that my programme could be deployed without mistake, I was sent to a screen that supplied me with the URL for viewing my application for hosting or deployment.



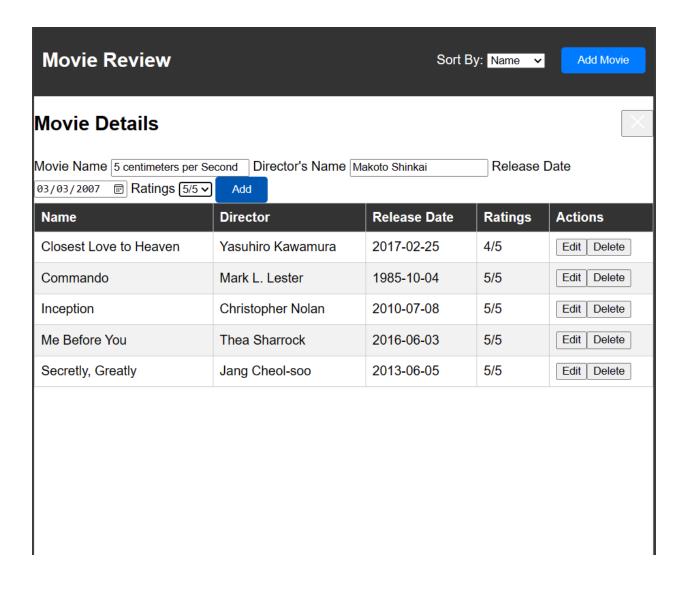
4. Hosted Application (Movie Review)

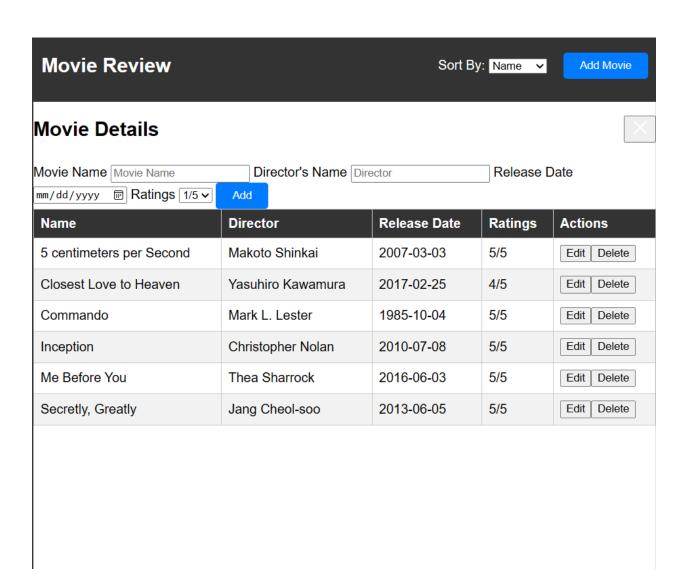
This is the result of deployed application through the URL provided.



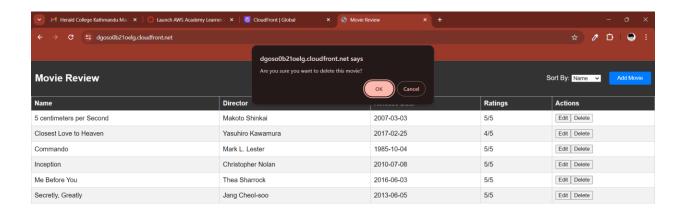
5. Add, Edit, Update, and Delete operation.

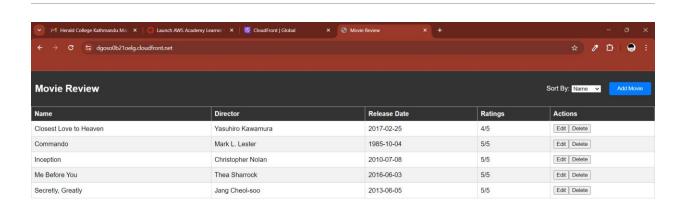
5.1 Adding new movie





5.2 Deleting one of the movies in the list





5.3 Editing and updating the director of one of the movies in the list

