



NAME: SUNKARI KRISHNAVENI

EMAIL: 190101120070@cutm.ac.in

Task 4: WEB UI Forms

Create a basic WEB UI frontend for an application that you created for #1 or #2 using any UI framework of your choice. You should be able to create, show and delete records from your UI.

Solution 4:

SOFTWARE USED: Node.js, Visual Studio Code

WEB FRAMEWORK USED: React JS Framework

STEPS:

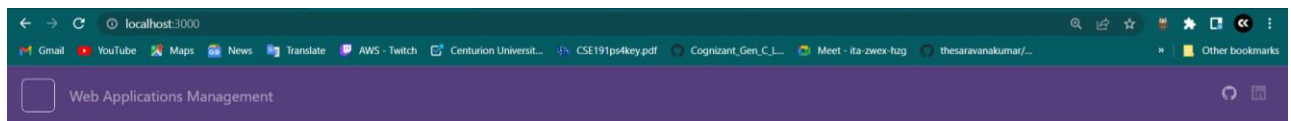
- 1) First, you have to **create a react app**. To do that, open command prompt. Set the path to where you want to install your app. Then, type the command – **“npx create-react-app app-name”**.
- 2) After installing the app, type **“cd app-name”** and then execute the command – **“npm start”** to run the app.
- 3) Create the necessary component pages to perform the CRUD Operations.
 1. **CreateAppComponent**
 2. **ListAppComponent**
 3. **UpdateAppComponent**
 4. **ViewAppComponent**
 5. **HeaderComponent**
- 4) At first, create a sample form to add the **Web Application Data** in **CreateAppComponent**.
- 5) Next, display the list of webapps data in **ListAppComponent**.

- 6) Then, add three buttons next to each item to **update, delete and view** the data and those buttons will redirect you to the **UpdateAppComponent**, and **ViewAppComponent**.
- 7) Next, create a **Service class** to map the urls from frontend to backend through **axios library**. This will connect the frontend and backend and allows us to manage/perform some operations on the data.
- 8) Now, call all the components and set the url values in the **App.js**.

RUN THE APPLICATION:

Open Chrome browser and type <http://localhost:3000>.

- 1) Initially it will open the “**List of Web Applications**” page.



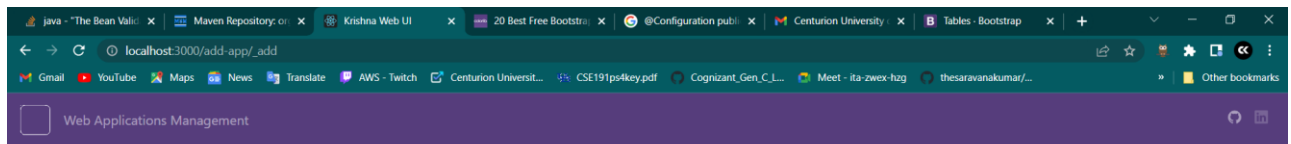
List of Web Applications

Add App Info

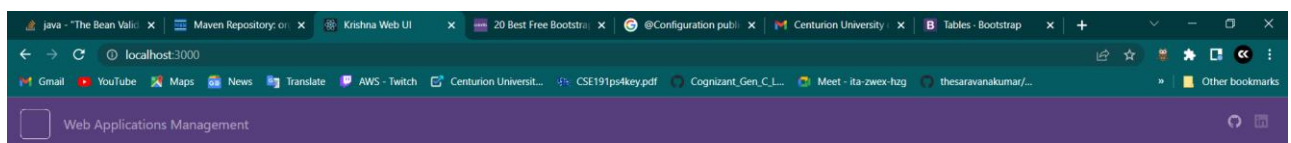
App Name	App Developer(s) Name	Released/Launched In	Written In	Actions
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2) Store the data:

- a. Click on **Add App Info** button, then it will redirect you to the **Add App Info form**. Fill all the details and click on **Save button**.



- b. Upon successful submission of data into the backend, it will redirect to the **List of Web Applications** page.
- c. Now, you can see the data which I have recently added the **Instagram app data** is displayed with the pre-existing data.



List of Web Applications

Add App Info				
App Name	App Developer(s) Name	Released/Launched In	Written In	Actions
Canva	Melanie Perkins, Cliff Obrecht, Cameron Adams	2013	Graphic Design Platform	Update Delete View
Facebook	Mark Zuckerberg and Eduardo Saverin	2010	Online Social Media app	Update Delete View
Instagram	Meta Platforms	2010	Online Social Media App, Messaging, Photo-sharing app	Update Delete View

3) Update the existing data of an app:

- a. Click on the **Update** button of any app present under **Actions** row.
- b. Then, you will be redirected to the **Update App Info** page having all the attributes filled with previously saved data. Now, you can edit any of the value.
- c. Here, I am removing the value **Photo-sharing app** from **AppType** field.

The screenshot shows a web browser window with the URL `localhost:3000/add-app/4`. The page title is "Web Applications Management". The main content is a form titled "Update App Info". The form has the following fields:

- App Id:
- App Name:
- App Developer:
- Intro Year:
- Programming Language:
- App Type:

At the bottom of the form, there is a green "Save" button and a red "Cancel" button. The "Cancel" button has a text label "Online Social Media App, Messaging, Photo-sharing app" next to it.

- d. After performing the necessary changes, click on the **Save** button.

Update App Info

App Id:

App Name:

App Developer:

Intro Year

Programming Language

App Type

[Save](#) [Cancel](#)

- e. The data has been modified successfully and you are directed to the **List of Web Applications Page**.
- f. Now, you can also check the data has been modified or not in the UI.

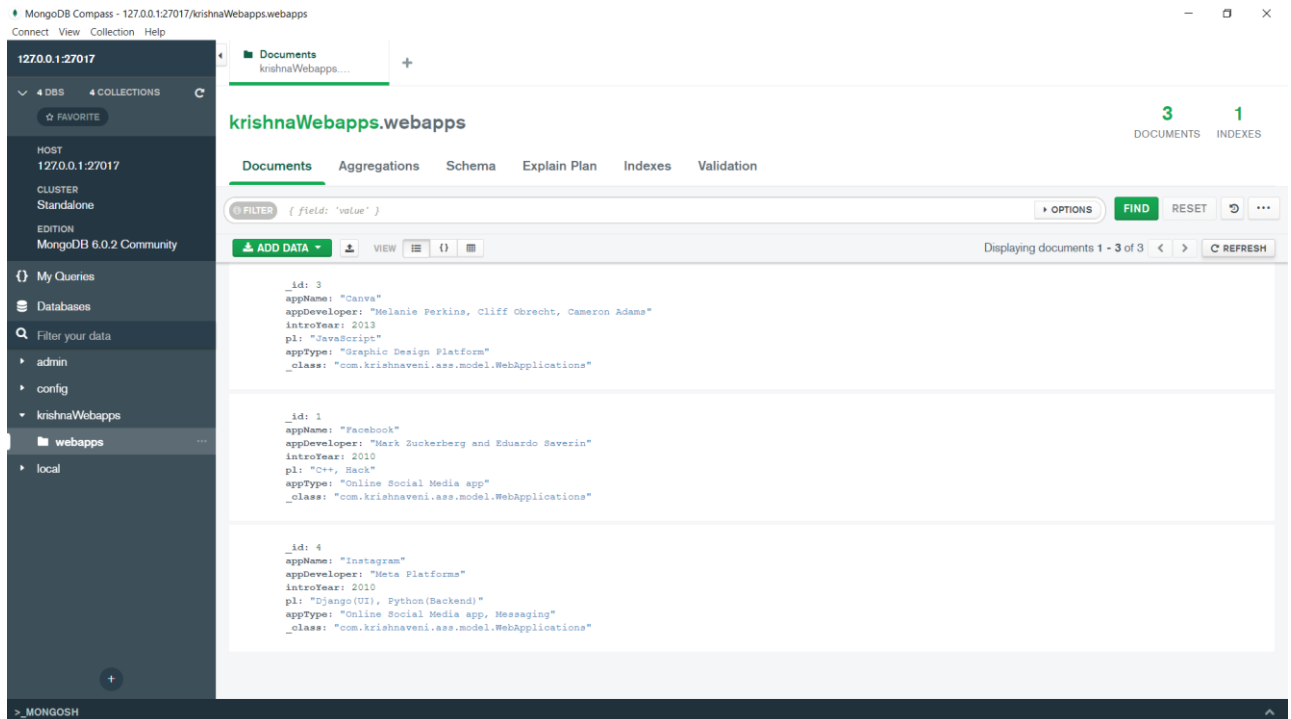
List of Web Applications

[Add App Info](#)

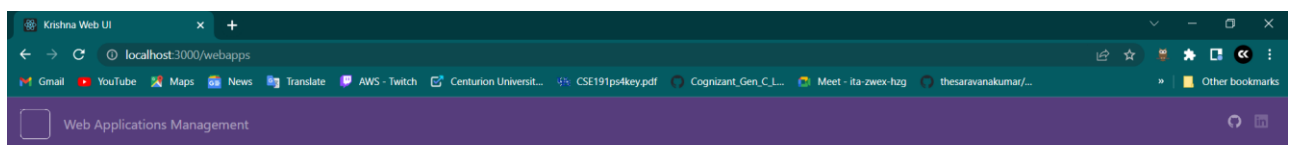
App Name	App Developer(s) Name	Released/Launched In	Written In	Actions
Canva	Melanie Perkins, Cliff Obrecht, Cameron Adams	2013	Graphic Design Platform	Update Delete View
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localhost:3000

g. As well as in the **database**.



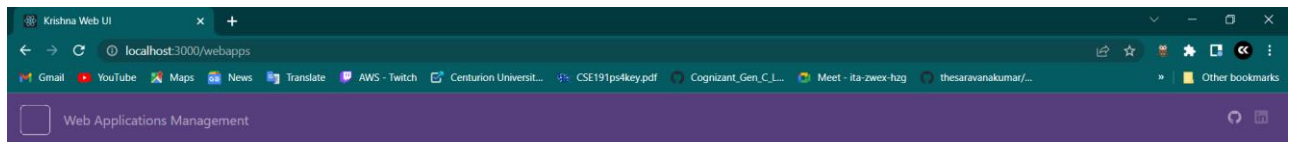
- 4) Delete any app info:
- Choose **Delete** button of any column.



List of Web Applications

Add App Info				
App Name	App Developer(s) Name	Released/Launched In	Written In	Actions
Canva	Melanie Perkins, Cliff Obrecht, Cameron Adams	2013	Graphic Design Platform	<button>Update</button> <button>Delete</button> <button>View</button>
Facebook	Mark Zuckerberg and Eduardo Saverin	2010	Online Social Media app	<button>Update</button> <button>Delete</button> <button>View</button>
Instagram	Meta Platforms	2010	Online Social Media app, Messaging	<button>Update</button> <button>Delete</button> <button>View</button>

- b. Then this delete request will be sent to the backend server and the data of particular id will be deleted in the database.
- c. Now, the frontend server will receive the **successful response** and the **List of Web Applications** page reloads itself.
- d. You can see that the **App Name** with **Instagram** is deleted.

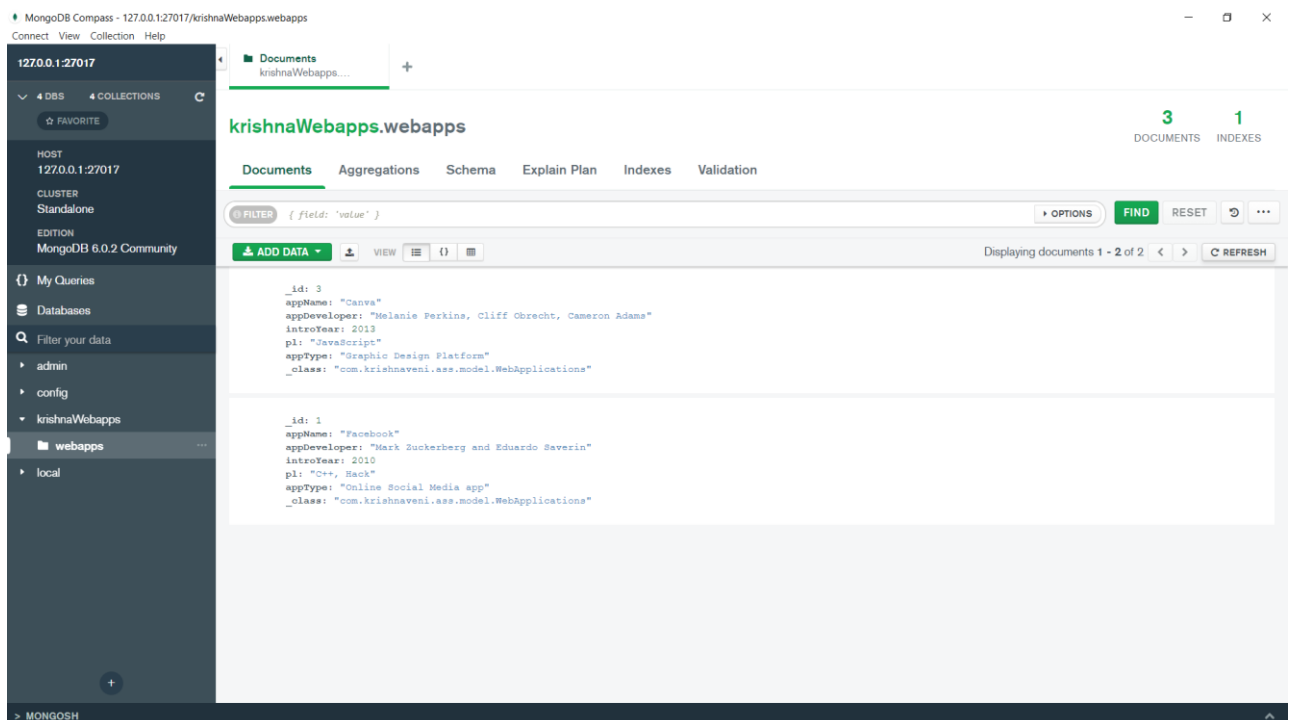


List of Web Applications

[Add App Info](#)

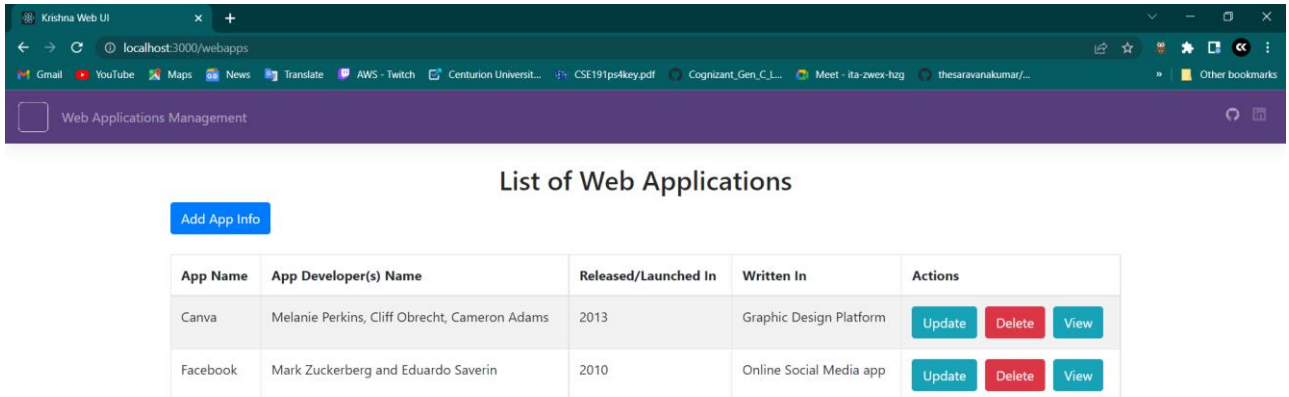
App Name	App Developer(s) Name	Released/Launched In	Written In	Actions
Canva	Melanie Perkins, Cliff Obrecht, Cameron Adams	2013	Graphic Design Platform	Update Delete View
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- e. Checking whether the delete request has been reflected in the database:



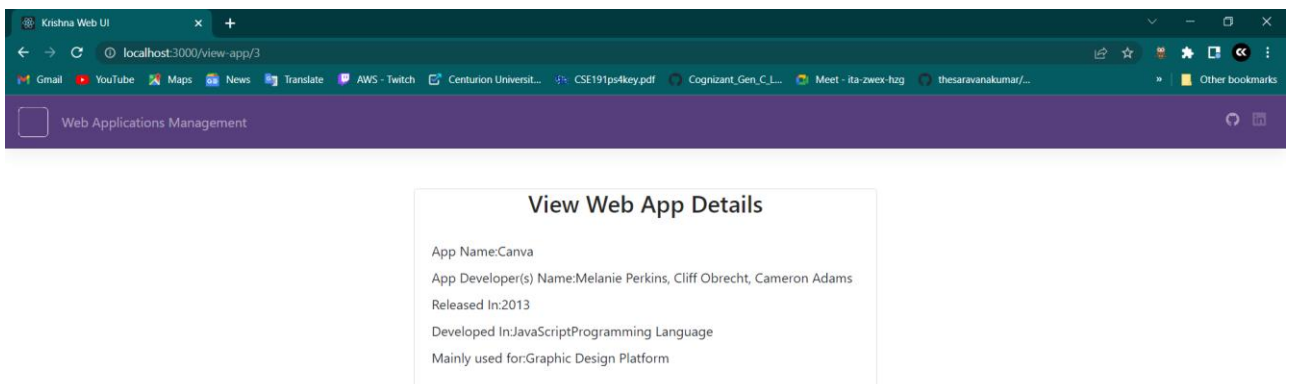
5) View the data:

- a. Choose the **View** button of any column.



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- b. Then you will be redirected you to the **View Web App Details** page.
- c. The data w.r.t the particular id will be displayed there.



View Web App Details

App Name:Canva
App Developer(s) Name:Melanie Perkins, Cliff Obrecht, Cameron Adams
Released In:2013
Developed In:JavaScriptProgramming Language
Mainly used for:Graphic Design Platform