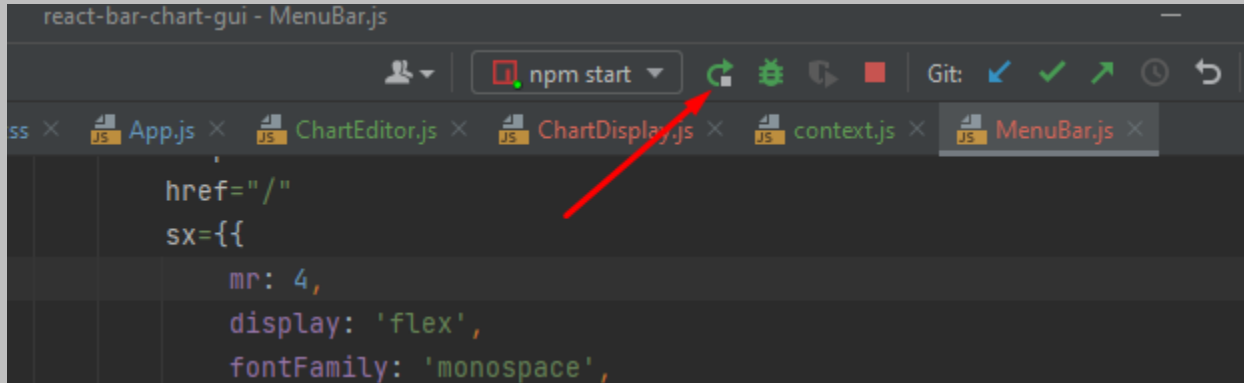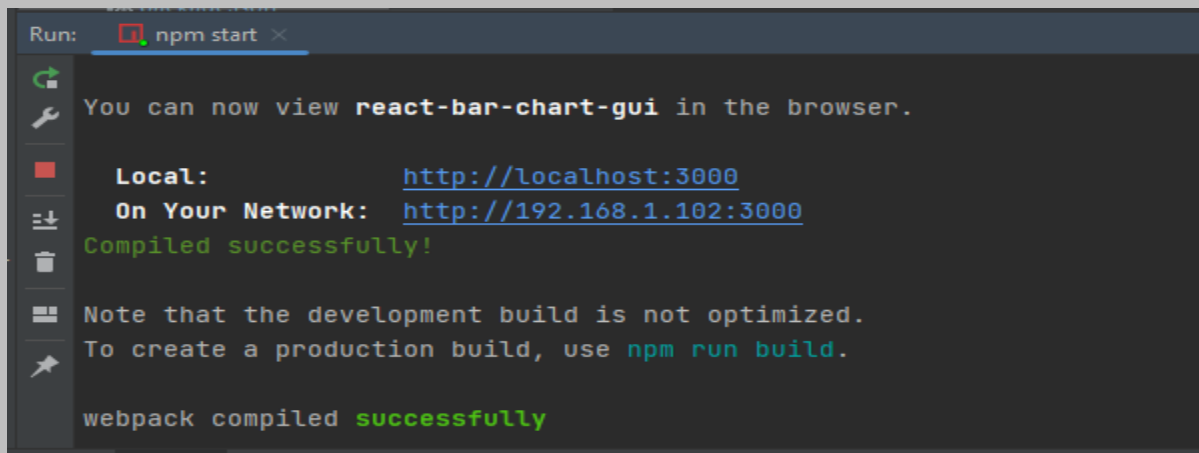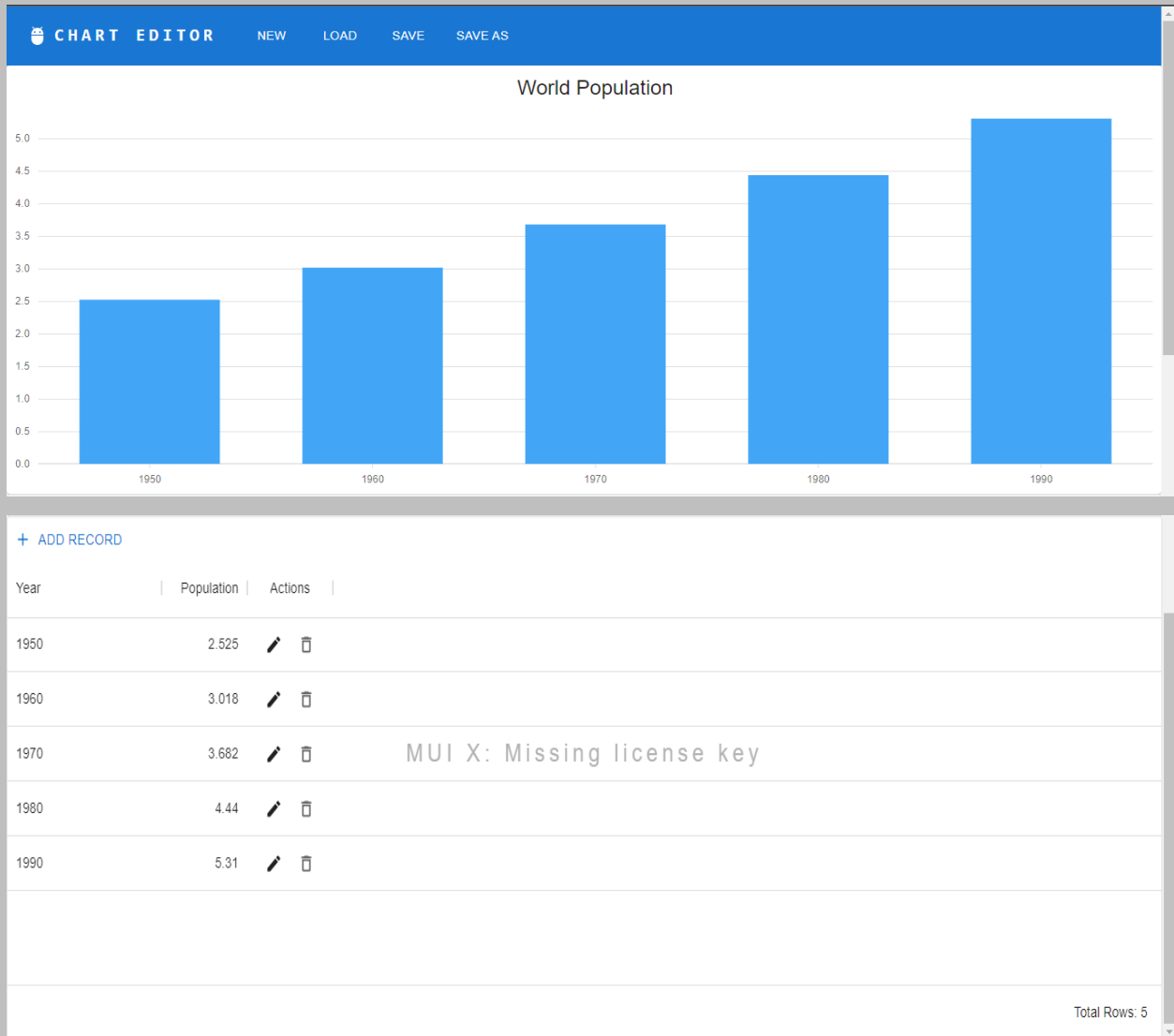## CHART EDITOR AND DISPLAY APP

APP NAVIGATION

1. Initialization

Using the command "npm start" on the project's root folder or pressing the play button on WebStorm should start the application.

On successful compilation, the development server should be ready for viewing on the browser.

CHART EDITOR   NEW   LOAD   SAVE   SAVE AS

World Population

Year	Population	Actions
1950	2.525	✏ 🗑
1960	3.018	✏ 🗑
1970	3.682	✏ 🗑
1980	4.44	✏ 🗑
1990	5.31	✏ 🗑

+ ADD RECORD

MUI X: Missing license key

Total Rows: 5

First look at the application should bring up the menu bar with file action options, the chart display section, and the editor section with an editable table showcasing initial data for better user experience.

2. Editing

+ ADD RECORD

Year	Population	Actions	
1950	2.525	✏️	🗑️
1960	3.018	✏️	🗑️
1970	3.682	✏️	🗑️
1980	4.44	✏️	🗑️
1990	5.31	✏️	🗑️
		💾	✕

+ ADD RECORD

Year	Population	Actions	
1950	2.525	✏️	🗑️
1960	3.018	✏️	🗑️
1970	3.682	✏️	🗑️
1980	4.44	✏️	🗑️
1990	5.31	✏️	🗑️
2000	6.123	✏️	🗑️

World Population
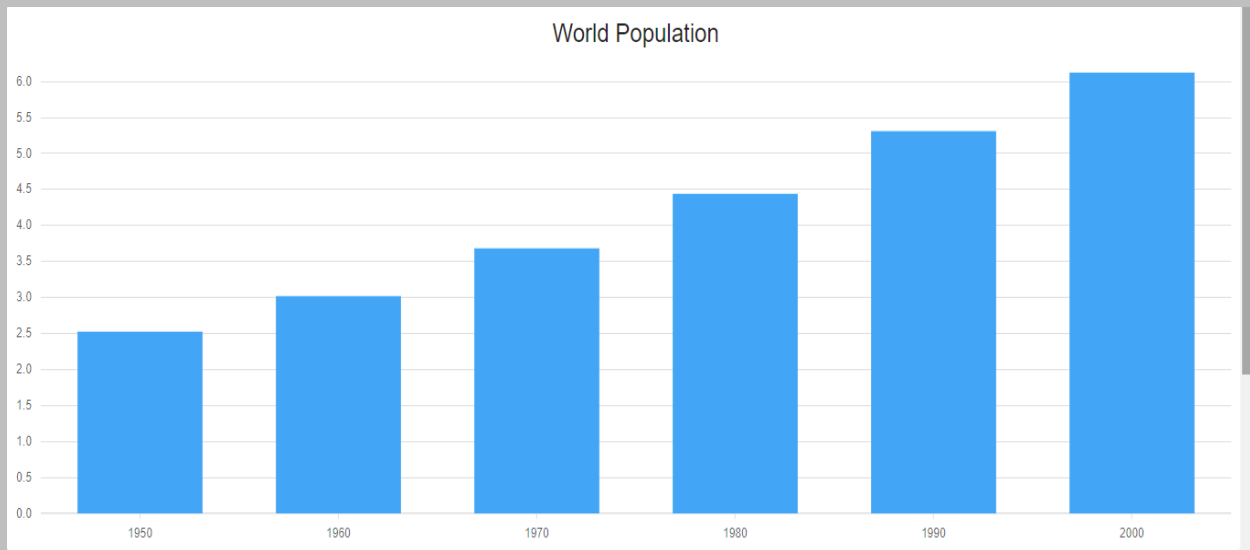
When "+ADD RECORD" button is pressed, a new empty row should appear at the bottom of the table. This should be populated with data and the "SAVE ICON" pressed to update the chart display. The "cancel icon" can also used to undo the edit.
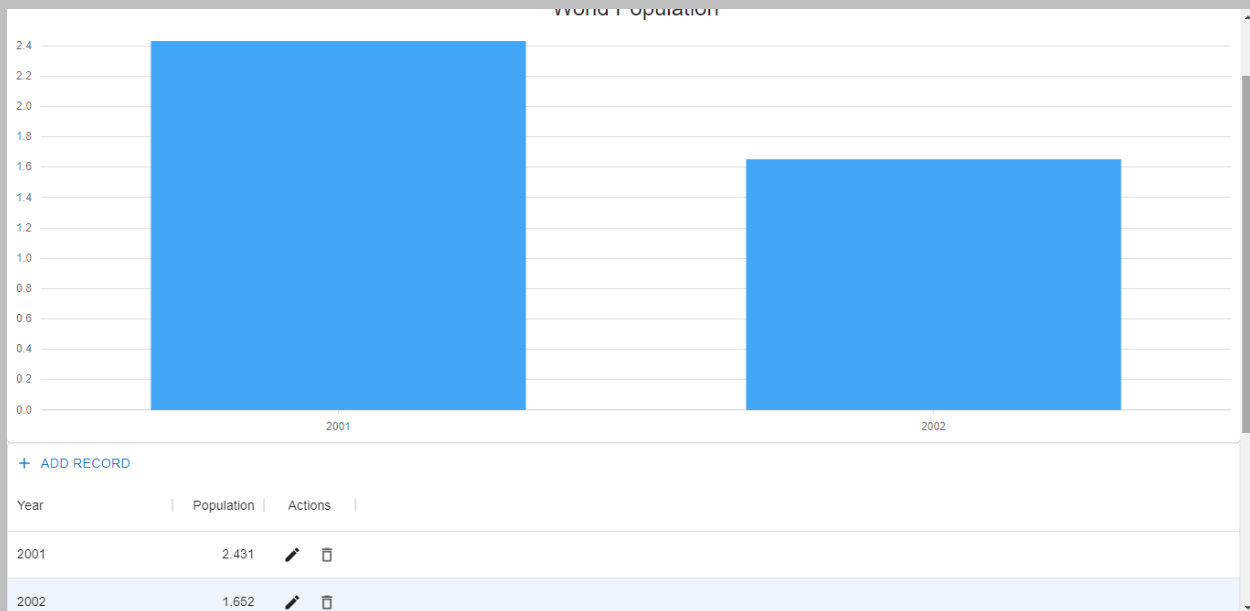
Entries in the table can be deleted using the "DELETE ICON"; the chart display should update with the new table values.
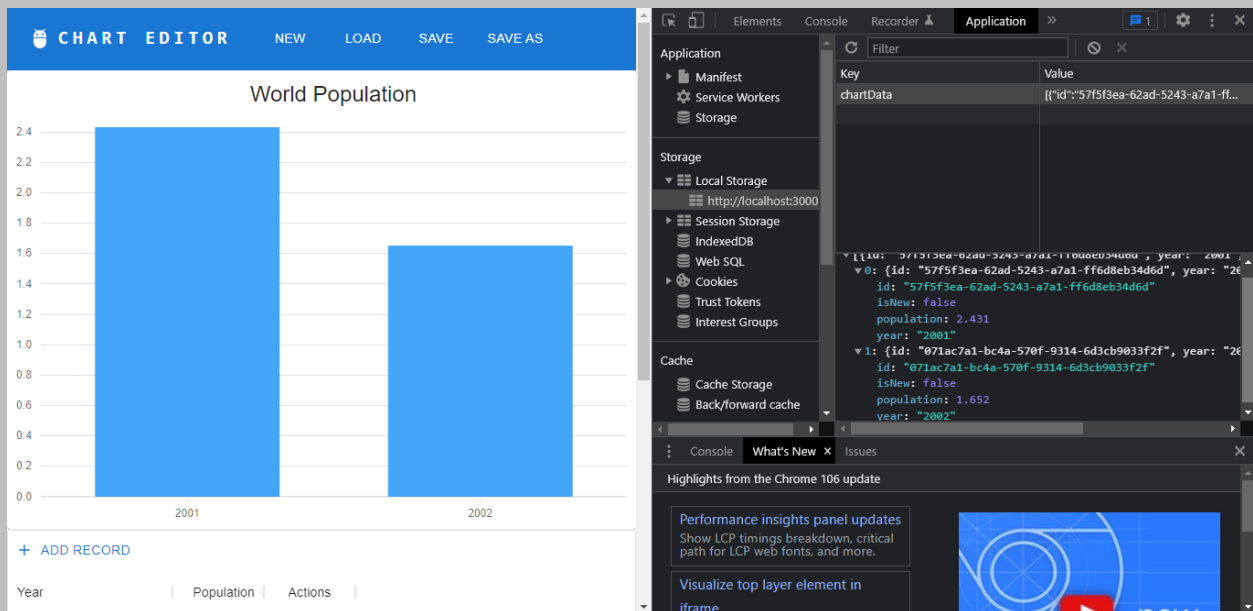
3. File Data

World Population

+ ADD RECORD

| Year	Population	Actions
	0	✏ 🗑

The "NEW BUTTON" on the menu bar can be pressed to clear the data from the table and the chart display, allowing the user to place new entries by filling and saving the first table entry fields using the "EDIT and SAVE ICONS" respectively, and then using the "+ADD RECORD" button for subsequent fields.
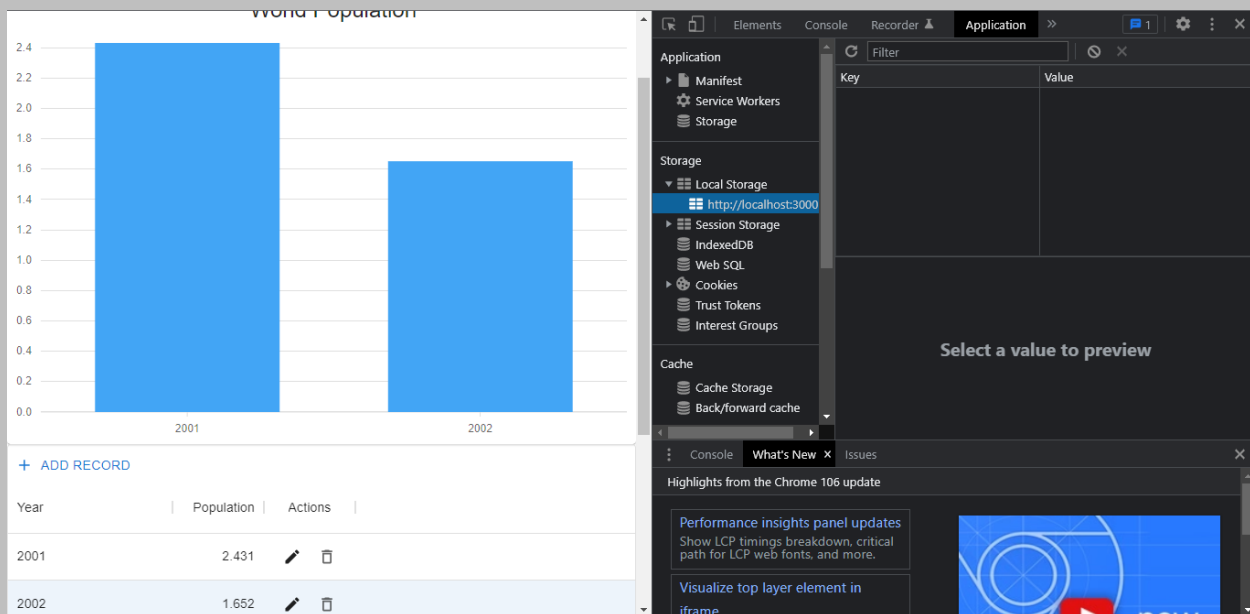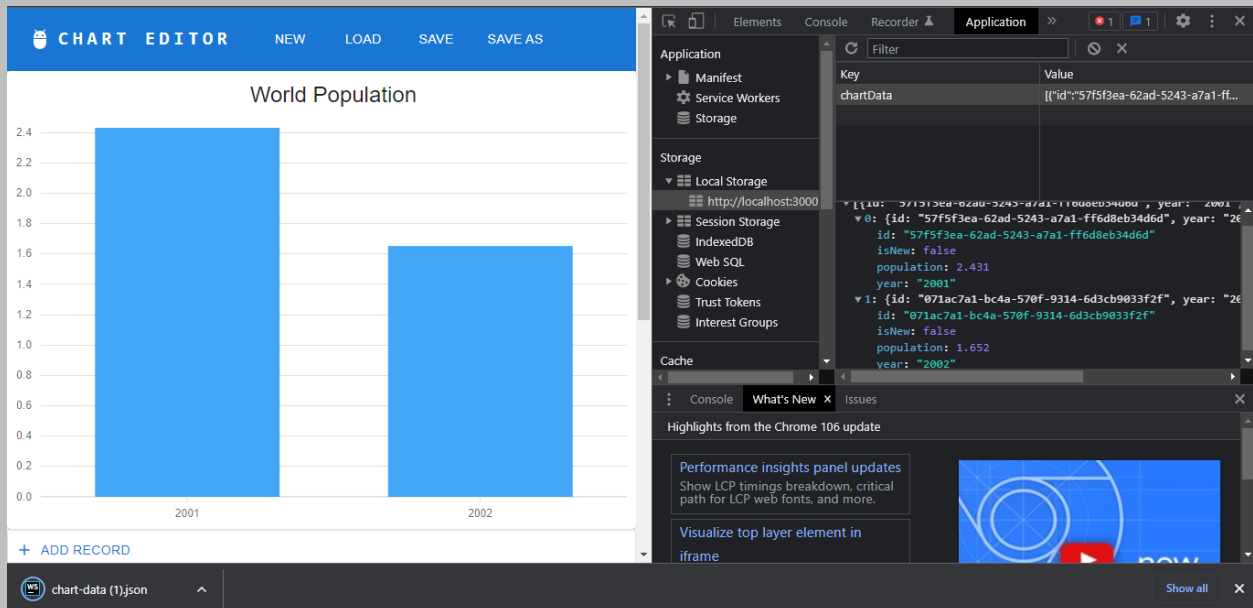
The "SAVE BUTTON" should permanently place the current data entries on the chart editor table on the browser's local storage allowing future viewing.
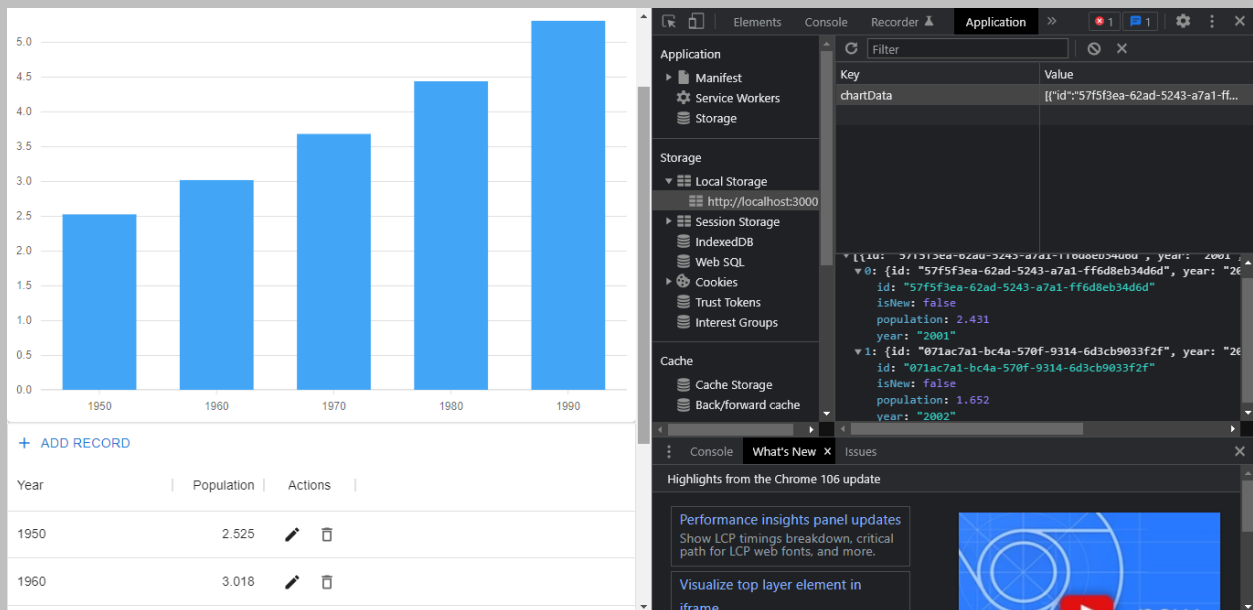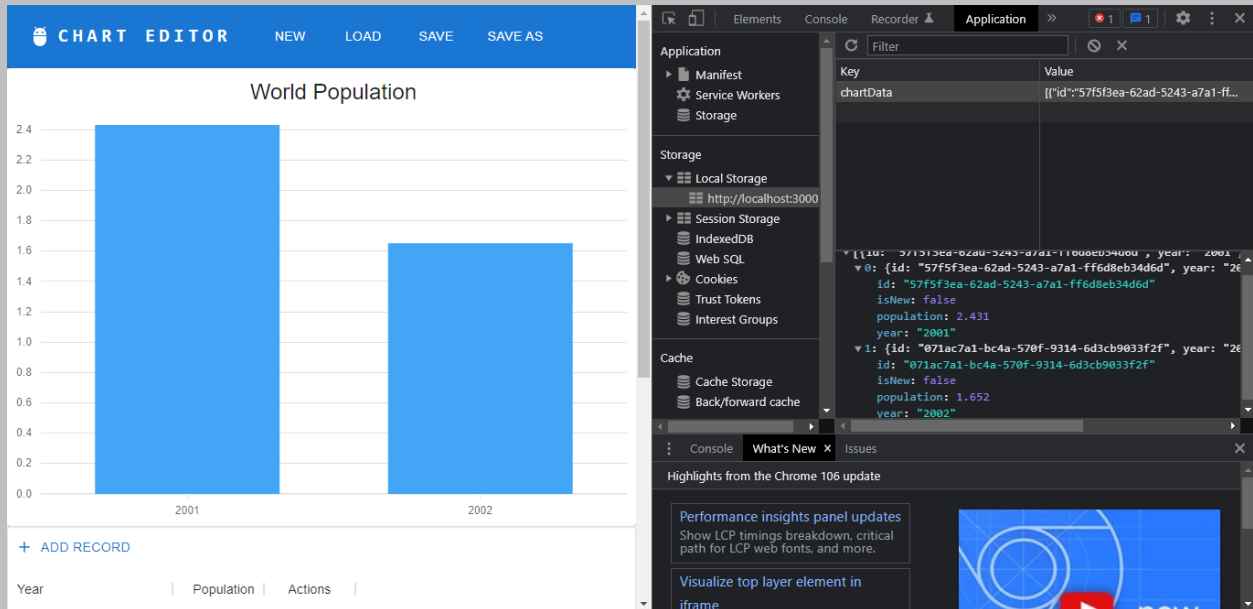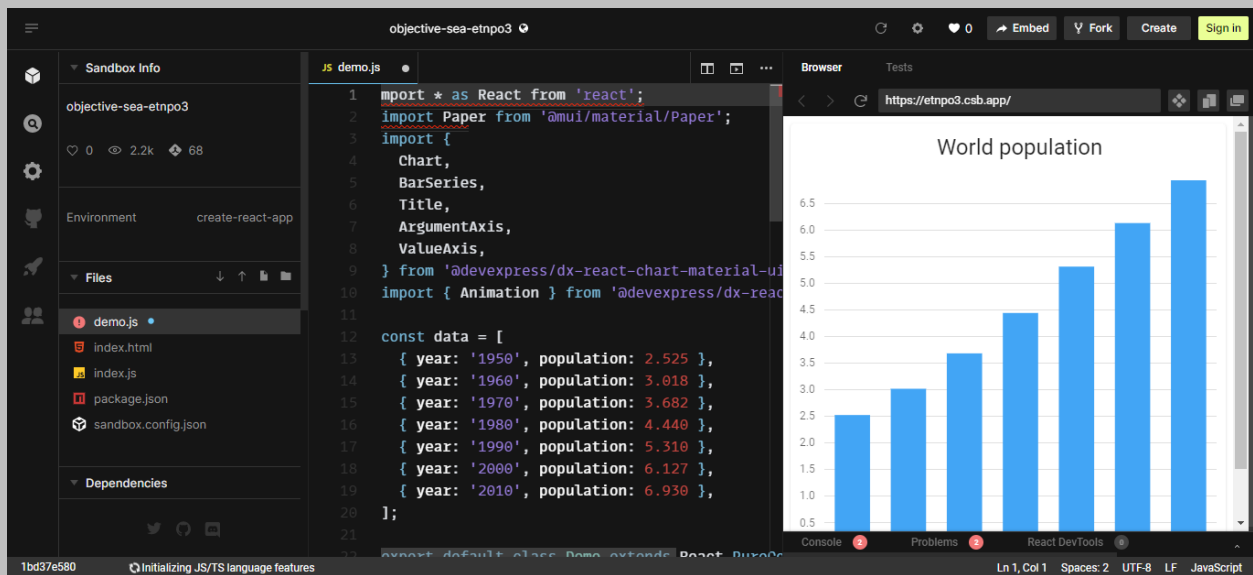
When the "LOAD BUTTON" is pressed, data present in the browser's local storage should now populate the chart editor table and chart display.
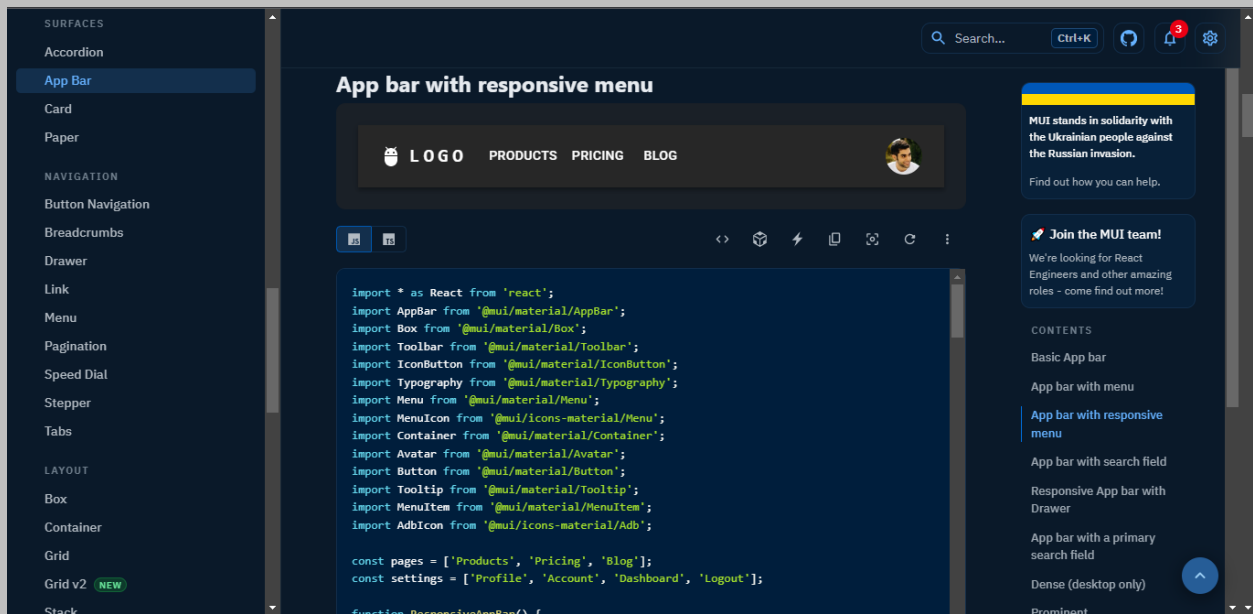

When the "SAVE AS" button is pressed, data present in the local storage is saved to a JSON file such as "chart-data(1).json" shown above.

TOOLS USED

1. https://devexpress.github.io/devextreme-reactive/react/chart/demos/bar/simple-bar/

2. Material UI App Bar with responsive menu.

3. Material UI Data Grid with CRUD (create, read, update, delete) capabilities.

Full-featured CRUD component

Row editing makes it possible to create a full-featured CRUD (Create, Read, Update, Delete) component similar to those found in enterprise applications. In the following demo, the typical ways to start and stop editing are all disabled. Instead, use the buttons available in each row or in the toolbar.

+ ADD RECORD

Name	Age	Date Created	Last Login
Christine Barker	25	3/3/2022	10/26/2022, 3:06:20 AM
Lulu Fitzgerald	36	5/31/2022	10/25/2022, 8:30:52 PM
Scott Owen	19	3/20/2022	10/25/2022, 5:46:54 PM
Elizabeth Rodriguez	28	7/24/2022	10/25/2022, 11:08:19 AM
Victoria Cunningham	23	12/19/2021	10/26/2022, 7:57:59 AM

Introduction

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Sorting
Filtering
Pagination
Selection
Export
Components

MUI stands in solidarity with the Ukrainian people against the Russian invasion.

Find out how you can help.

🖌 **Join the MUI team!**

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