

## Stores Sales Prediction

### *Wireframe Document*

-Derrick T

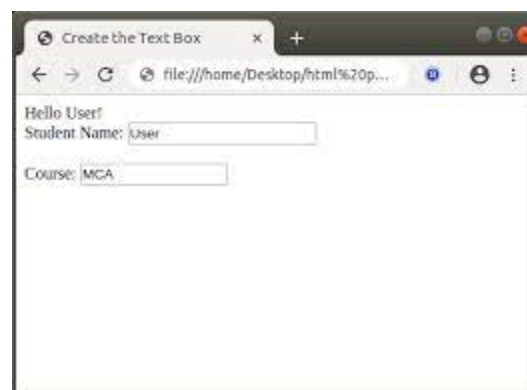
Link for hosted solution(UI For user data and prediction)

**<https://storessalesderr6.onrender.com/>**

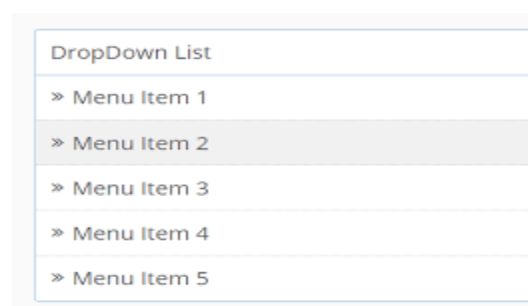
**The UI developed will consist of only one part of the webpage as it was sufficient for the solution designed. There will be no images.**

1. The testing phase of the solution requires user data (unseen data) for the model to work on and generate predictions.
2. To achieve this, a front-end page along with the feature of accepting user input (data) is developed using HTML, CSS and Flask API to establish a connection between the saved models and the entered data.

The webpage design will be minimal with text boxes and dropdown lists to select options and consist of a submit button



A screenshot of a web browser window titled "Create the Text Box". The address bar shows a file path: "file:///home/Desktop/html%20p...". The page content includes the text "Hello User!", followed by a label "Student Name:" and an input field containing the text "User". Below this is a label "Course:" and a dropdown menu currently displaying "MCA".



A screenshot of a web form element titled "DropDown List". It contains a list of five menu items, each preceded by a right-pointing arrow: "» Menu Item 1", "» Menu Item 2", "» Menu Item 3", "» Menu Item 4", and "» Menu Item 5". The second item, "» Menu Item 2", is highlighted with a grey background.



A diagram illustrating UI components. It shows two rows of labels followed by three buttons. The first row is labeled "Button:" and the second row is labeled "Input:". Both rows have three buttons labeled "Button", "Submit", and "Reset".

## HOMEPAGE (INTERFACE PAGE)

First the users would view the input fields when the webpage is displayed.

The user has to enter the data according to the instructions below and the specific units and limits as mentioned in the homepage above each input field.

Item\_Weight: Weight of product

Item\_Fat\_Content: Whether the product is low fat or not

Item\_Visibility: The % of total display area of all products in a store allocated to the particular product

Item\_Type: The category to which the product belongs

Item\_MRP: Maximum Retail Price (list price) of the product

Outlet\_Identifier: Unique store ID

Outlet\_Establishment\_Year: The year in which store was established

Outlet\_Size: The size of the store in terms of ground area covered

Outlet\_Location\_Type: The type of city in which the store is located

Outlet\_Type: Whether the outlet is just a grocery store or some sort of supermarket

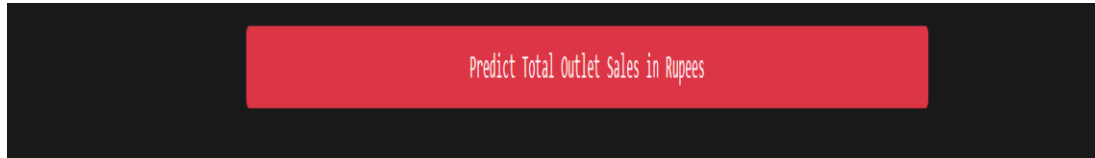
**After entering the above details correctly like the sample image below,**

The screenshot shows a web form titled "DERRICK'S STORES/BIG MART SALES PREDICTION (USING OLD DATA TO PREDICT)". The form contains the following fields and values:

- Item\_Weight: 19 (Label: Enter Item Weight (g) without unit)
- Item\_Fat\_Content: Regular (Label: Enter Item Fat Content)
- Item\_Visibility: 8.008 (Label: Enter Item Visibility-how visible is the item in the shop/area from 0.01 to 0.010854)
- Item\_Type: Groceries (Label: Enter Item Type)
- Item\_MRP: 340 (Label: Enter Item MRP)
- Outlet\_Identifier: 2024 (Label: Enter Outlet Identifier)
- Outlet\_Establishment\_Year: 2004 (Label: Outlet Establishment Year (YYYY))
- Outlet\_Size: Small (Label: Enter Outlet Size)
- Outlet\_Location\_Type: Tier 1 (Label: Enter Outlet Location Type)
- Outlet\_Type: Supermarket Type1 (Label: Enter Outlet Type)

At the bottom of the form is a red button labeled "Predict Total Outlet Sales in Rupees".

When clicked the 'Predict Total Outlet Sales in Rupees' Button,



The prediction is generated.

```
{  
  "Prediction": 821.2709600830078  
}
```

The above were the sample images or an idea, the webpage will be made more appealing and developed further.