Application should display one page at a time.

Each page should have navbar at the top of it.

For not logged in users, navbar should have links to the Main Page, Login Page and Register Page.

For logged in users, navbar should have links to the Main Page, Profile Page and Logout.

For logged in admins, navbar should have the same links as a logged in user and to the Add Product Page.

Main Page should be displayed upon entering the Application.

Main Page should display a Search Form and a list of Products as Short Product Display in reverse chronological order.

Search Form should contain Search Bar, Category Choice, Results Per Page Choice and Search Button.

After clicking the Search Button, the Page will only display list of products, which names contain the phrase from Search Bar (if Search Bar is not empty) and have the Category choosen in Category Choice (if Category Choice is not empty).

Search Bar should be a text input.

Category Choice should be a single choice dropdown containing every existing Category and an empty choice, which should be the default value.

Results Per Page Choice should be a single choice dropdown container choices of 10, 20, 50, 100 and All results per page. The results will be divided accordidng to the choice. If this causes multiple Pages of results, the first Page should have a button that takes user to the next Page, the last Page should have a buton that takes user to the previous Page. Every Page between first and last should have both buttons.

Short Product Display should display Product’s name and image. Clicking on Short Product Display should take user to the Product Page.

Product Page should display Product’s Image, Product’s Name and Product’s Description for all users.

For logged in users Product Page should also display the Product Demand Area.

If the user didn’t enter his Demand for the Product yet,

the Product Demand Area will display Product Demand Form.

Product Demand Form should contain Quanity Input and Price Input and Submit Button. Upon submitting, user’s Demand for this Product is set if both inputs are valid and not empty, and Product Demand Area should be set to Product Demand Panel. If atleast one input is empty or invalid, error message should appear upon submitting.

In Quanity Input user should enter an integer representing amount of units of the Product that he is instrested in buying.

In Price Input user should enter a decimal number representing how much they are willing to pay per unit of the Product.

If user’s Demand for the Product has been already set, the Product Demand Area should display Product Demand Panel.

Product Demand Panel should display user’s Quanity Demanded and Price Demanded and should containt Edit Demand Button and Delete Demand Button.

Clicking Delete Demand Button should remove user’s Demand for this Product.

Clicking Edit Demand Button should set the Product Demand Area to display Edit Product Demand Form.

Edit Demand Form should contain Quanity Input, Price Input, Save Demand Button and Cancel Edit Demand Button.

Clicking Save Demand Button should set user’s Demand for the Product to the values in inputs and set Product Demand Area to Product Demand Panel, if the inputs are valid and not empty. Else an error message should appear.

Clicking Cancel Edit Demand Button should set Product Demand Area to Product Demand Panel without changing user’s Demand for the Product.

For logged in admins, Product Page should also containt Product Supply Area.

If the Supply for the Product isn’t set yet, Product Supply Area should display Product Supply Form.

Product Supply Form should contain Fixed Cost Input, Cost Per Unit Input and Submit Supply Button. Upon submitting, if both inputs are valid and not empty, the Supply for the Product should be set with the values from the inputs and set Product Supply Area to display Product Supply Panel. Else an error message should appear.

Product Supply Panel should display Fixed Cost, Cost Per Unit of the Product, Minimum Price and Maximum Price and should contain Edit Supply Button and Delete Supply Button.

Clicking Delete Supply Button should remove Supply for this Product.

Clicking Edit Supply Button should set the Product Supply Area to display Edit Product Supply Form.

Edit Supply Form should contain Quanity Input, Price Input, Save Supply Button and Cancel Edit Supply Button.

Clicking Save Supply Button should set Supply for the Product to the values in inputs and set Product Supply Area to Product Supply Panel, if the inputs are valid and not empty. Else an error message should appear.

Clicking Cancel Edit Supply Button should set Product Supply Area to Product Supply Panel without changing Supply for the Product.

For logged in admins, if Supply for the Product is set, Product Page should also containt Product Price Analysis.

If no users have set their Demand for the Product yet, a message about no data should appear.

Else, Product Price Analysis should contain a table with 5 columns: Price, Quanity Demanded, Revenue, Total Cost, Profit.

There should be a row for every unique Price Demanded in the Product’s Demand and that value should be put in the Price column of the row and the rows should be sorted by that value in descending order.

Quanity Demanded column should contain an integer representing how many units of the Product users declared to be willing to buy for price smaller or equal to the price in Price column.

Revenue column should contain a decimal value equal to:

Price \* Quanity Demanded

Total Cost column should contain a decimal value equal to:

Fixed Cost + Quanity Demanded \* Cost Per Unit

Profit column should contain a decimal value equal to:

Revenue – Total Cost

Row with highest Profit should have yellow background color.

Other rows should have background color depending on the ratio between this row’s Profit and Highest Profit or Highest Loss depending on if the Profit is greater than on smaller than 0.

Rows with negative Profit should have red background.

The smaller the negative value, the more light the color should be.

Rows with positive Revenuse should have green background. The smaller the positive value, the more light the color should be.

Rows with revenue equal to 0 should have white background.

For logged in admins the Product Page should also contain Edit Product Button.

Clicking on the Edit Product Button user should be taken to Edit Product Page.

Edit Product Page should contain Edit Product Form.

Edit Product Form should contain Product Form Inputs preoccupied with values of the Product, Save Edit Product Button and Cancel Edit Product Button.

Product Form Inputs should contain of Title Input, Description Input and Image URL Input.

Title Input should be a text input. If empty while the form is being submitted, an error message will appear.

Description Input should be a textarea. If empty while the form is being submitted, an error message will appear.

Image URL Input should be a text input.

Clicking on the Save Edit Product Button if the inputs are valid should update the Product and take the user to Product Page.

Clicking on Cancel Edit Product Button should take user to Product Page without updating the Product.

Add Product Page should contain Add Product Form.

Add Product Form should contain Product Form Inputs and the Add Product Button.

Clicking on the Add Product Button while the inputs are valid should create the Product and take user to the Product Page.

Clicking on the Login Page Link in the Navbar should take user to the Login Page.

Login Page should contain Login Form.

Login Form should contain Username Input, Password Input and Login Button. Upon submitting, if the inputs

are valid, not empty and match an user from the database, the user should be logged in and taken to Mani Page. Else an error message should appear.

Username Input should be a text input.

Password Input should be a password input.

Register Page should contain Register Form.

Register Form should contain Username Input, Password Input, Repeat Password Input and Register Button. Upon submitting, if the inputs are valid and not empty and there is no user with Username equal value from Username Input and the values from Password Input and Repeat Password Input are equal, a new user should be created, logged in and taken to the Main Page. Else an error message should appear.

Profile Page should contain Profile Username Label, Search Form and list of all Products that user has set his Demand for in Short Product Display.