CMPT 276 Assignment 2

Overview

In this assignment, you will be experimenting with NodeJS. This assignment is to be completed individually. The following is an overview:

-   Database: you should create a database table called "Person" to collect information about a series of People. The minimum attributes for the People are name, size, height, and type (you may use any of these attributes as you'd like). In addition, you may add as many other Person attributes as you'd like (Be creative: P).

-   Your app should have the following features:
    1. The ability to add new People (with corresponding attributes).
    2. The ability to change attributes of any of the People.
    3. The ability to delete any of the People
    4. The ability to view a detailed list of attributes for a particular Person. This can be done by clicking on a particular person on the main display page (please see feature 5 below).
    5. The ability to display (draw) all People currently in the database (including any other information you collect). For example, if you currently have two People in your database as follows:
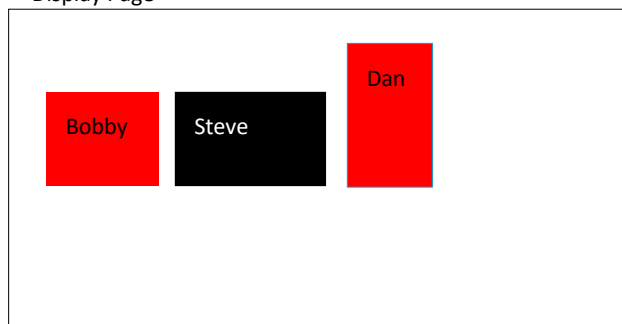
        Rectangle Database

	name	size	height	type
1	Bobby	150	30	A
2	Steve	200	30	EE
3	Dan	120	50	A

        An example of the main display page could be displayed below (notice that not all attributes need to be represented on the main page).
        Notice Bobby and Steve have the same height, but Steve has a proportionally larger size, Dan has a smaller size and is taller than both Bobby and Steve. Also, notice that Bobby and Dan are the same type (you can use other values as well) and is displayed with the same color.
        It is up to you to determine an appropriate algorithm to draw the people:
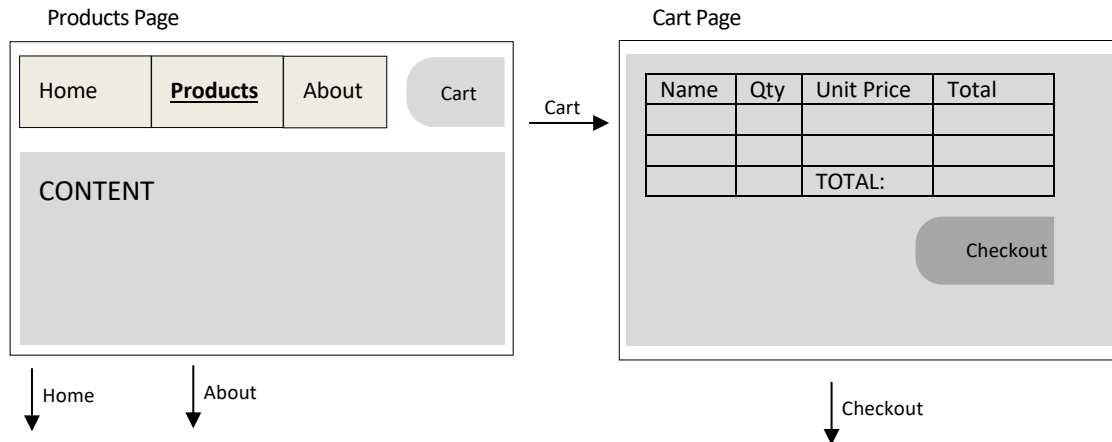
        Display Page

In addition, you may also add or display any other attributes you wish. Please note that the requirement stated above is a minimum list, you may add to them as you see fit. Also, include a list of **extra** features for your web application in a README file (in case they are not immediately evident). Please be creative, part of your grade will be based on effort and creativity.

Technical Requirements

In this assignment, you will be using Nodejs as a backend server and HTML, CSS, and JavaSript as frontend. You may use libraries such as jQuery and bootstrap for the frontend but may not use full frameworks such as React.js, Angular.js, or Vue.js.

UI Mockup

Begin with a UI mockup of your app. You may use any tool that you desire (including by hand). You do not have to hand this in, but you will have to include this as part of your documentation in subsequent assignments. The UI mockup should contain your different views and how they are linked. As a small example, a UI mockup for part of a bakery (buying) website could look like the following:

Products Page

Home	**Products**	About	Cart

CONTENT

Cart

Cart Page

Name	Qty	Unit Price	Total
		TOTAL:	

Checkout

Home   About

Checkout

This is a good logical starting point because it will give you a general picture of attributes that exist in your model so you can limit the number migrations you may have.

Submission
A successful submission for this assignment includes:

1. Application successfully deployed to Heroku.
2. Submit the URL of your running application. Clicking the URL must direct us to the application. For example: http://myapp.herokuapp.com/people
3. Submit the URL of your Heroku git (or gitlab, or github) link. Please note that you must use either gitlab or github. Please see "Adding GIT remote to your project" on the course resources page.
4. Upload of a zip file containing the HTML, CSS, and JavaScript for this assignment to coursys.

Marking Scheme
No marks will be given for the application without proper deployment to Heroku
16 Marks – Adding, Deleting, Editing, and Viewing People
6 Marks – Displaying People properly
6 Marks – (relative) Creativity, extra features, and logical organization of workflows

THE END