



PROJECT #3: DONUT SHOP APPLICATION

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Points: _____ / 100

Instructions

This project will test your skills with both front-end and back-end technologies. Thus, this will be a full-stack development assignment.

The application you'll create will be for a **donut shop**.

You will create a REST API using PHP, and a front-end using your knowledge of HTML, CSS, JavaScript, and React. You should make the application visually appealing and easy to use.

You must appropriately implement the following:

- **index.html**
 - This is the homepage
 - There should be an attractive UI, a picture (or pictures) of donuts, and divided properly into sections such as a header, main, and a footer (with copyright information)
 - There must be a list of the available donuts, their names, a description, and prices
 - You should use React to make a nice styled element for each donut
 - The data retrieved from the PHP API should populate the list of donuts
 - Each donut should be an instance of a `<Donut>` element with the appropriate information filled in
 - Obviously, any of the React-related backing pages/technologies must be implemented properly as well
 - E.g., `App.js`
- **admin.html**
 - This page is not linked to from the home page (`index.html`)

- You should be able to go directly to it if you type it in the browser
- It should allow the user to Create new donuts, View current donuts, Update current donuts, and Delete donuts
- The user interface for the admin page should also be attractive and intuitive
- A database, **DonutDB**
 - A table inside called **Donuts**
 - The donuts table will have records (rows), each representing a donut
 - The fields are an ID (auto-increment, primary key), Name (the name of the donut - a VARCHAR or TEXT), Description (the description of the donut - a VARCHAR or TEXT), Price (the cost of purchasing this donut - a VARCHAR is ok for this, or you can use an appropriate numeric type)

So, in summary, the regular (index) page just displays the names of the donuts, descriptions, and prices, listed in a visually appealing Web page, with each donut's information in a single instance of a React element, `<Donut>`.

The data for the React elements will be pulled from the REST API that you need to expose.

You do not have to worry about securing the admin page or the API for this assignment. Just get the functionality working!

Deliverables

Please do the following:

- Create (if you haven't already) a folder named **project3** with all of your code, properly organized
- You must include a zip of your project (including all React and PHP technologies) as well as an export of the SQL from phpMyAdmin for your database
- Place **screenshots (at least two of the regular site and two of the admin)** of your application running inside a PDF file, and then put the PDF file in the top level of your project3 folder
- Place your test plan at the top level