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CS 370
Software Engineering
Project 2

Summary

This is the documentation of my CS370 Restaurants Project for Sateesh Mane

The project is incomplete, but this is a demo that shows the general concepts of the project. I coded this using C# in Visual Studio 2017. The database and website was hosted online via Microsoft Azure Cloud, but is no longer live due to costs.

The Project Guidelines are located [here](#), as the original link is down.

The source files are located [here](#) via a Google Drive folder, as there are too many small files for Github. Github will still have the main files.

MainSearch.aspx

The screenshot shows a web browser window with the address bar displaying "370resturantsproject.azurewebsites.net". The page has a login section at the top with fields for "Username" and "Password", and a "Login" button. Below the login section, the page is divided into two columns. The left column, labeled "Column 1", contains a "Temp" section with a form to "Enter your location here:" with "X:" and "Y:" input fields and a "Submit" button. Below this, there are four restaurant listings, each with a "Select" button: "Dunkin Donuts" (20, 100, 06:00:00.0 - 06:00:00.0, MonTuesWedThurs), "Dunkin Donuts" (75, 29, 6:00 AM - 12:00 AM, SunMonTuesWedThursFriSat), "Ming Garden" (5, 9, Chinese Food, 10:00 AM - 10:00 PM, SunMonTuesWedThursFriSat), and "MMM" (75, 29, bar, 7:00 PM - 12:00 AM, SunMonTuesWedThursFriSat). The right column, labeled "Column 2", is currently empty. At the bottom of the browser window, a status bar indicates "Waiting for outlook.office.com..."

You can click select to see the restaurant's menu if it exists (If no menu exists yet it will be blank). The menu will appear on the right column,

By default, the menu on the left is sorted by alphabetical order, but if you input a location (represented by coordinates on a 100x100 grid, Once submitted, it will sort the menu locations by distance (closest to farthest) with the distance now being displayed.

The screenshot shows a web browser window with the address bar displaying '370restaurantsproject.azurewebsites.net'. The page has a login section at the top with 'Username' and 'Password' fields and a 'Login' button. Below the login section, the page is divided into two columns. Column 1, titled 'Column 1', contains a list of restaurants with their names, coordinates, and a 'Select' button. Column 2, titled 'Column 2', contains a table of donuts with their names, prices, and quantities.

Column 1

Dunkin Donuts

Enter your location here:

X: 93

Y: 25

Submit

Dunkin Donuts
75 , 29
18.439089 away
6:00 AM - 12:00 AM
SunMonTuesWedThursFriSat
Select

MMM
75 , 29
bar
18.439089 away
7:00 PM - 12:00 AM
SunMonTuesWedThursFriSat
Select

Ming Garden
5 , 9
Chinese Food
89.442719 away
10:00 AM - 10:00 PM
SunMonTuesWedThursFriSat
Select

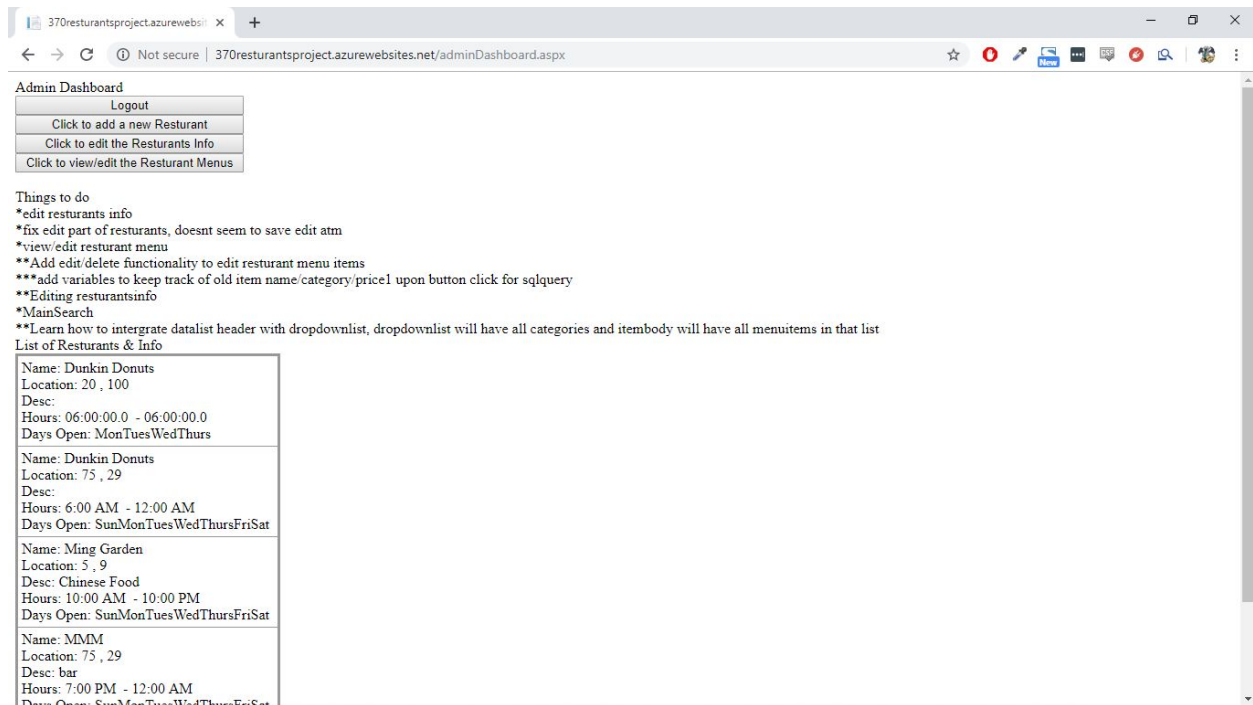
Panera Bread
2 , 7
Bread place

Column 2

Donuts Glazed Donut 49.99	Donuts Strawberry Donut	Donuts Chocolate Dipped Donut 1.19 Single	Donuts Birthday Donut 1.19 Single 5.49 Half-Dozen
Donuts Plain Donut 1.19 Singl 5.49 Half-Dozen 10.99 Dozen			

To reach the admin dashboard, the username and password are both 'admin'.

AdminDashboard.aspx



I have used the admin dashboard as a hub to the admin-type pages, and to keep track of things to do and fix in this project, and it also displays all the restaurants currently added below.

- Clicking logout will return you to the MainSearch page.
- Clicking the 2nd button will redirect you to AddResturant.aspx
- Clicking the 3rd button will redirect you to EditResturant.aspx
- Clicking the 4th button will redirect you to EditMenus.aspx

AddResturant.aspx

The Name, x & y locations, and opening/closing hours are required, and are limited. If there are any errors it will not add the location and display all the errors above.

370resturantsproject.azurewebsit x +

Not secure | 370resturantsproject.azurewebsites.net/AddResturant.aspx

Add a new resturant here, and go back to the [Admin Dashboard](#) when done:
Finish all inputs before clicking the button: 23:00
Please try again, here are the errors: X is not between 0 and 100. Not a valid time format ('hh:mm AM|PM') in closing hours.

Resturant Name	Food Fighters	(required, 50 char max)
Resturant X Location	111	(required, between 0 and 100)
Resturant Y Location	52	(required, between 0 and 100)
Resturant Description	Playhouse for kids	(not required, 100 char max)
Resturant Opening Hours	8:00 AM	(required, hh:mm AM/PM format)
Resturant Closing Hours	23:00	(required, hh:mm AM/PM format)

As specified in the project documentation (Section 9 Administrator), the primary key is (name, address) which is changed to (name, x, y) for this implementation.

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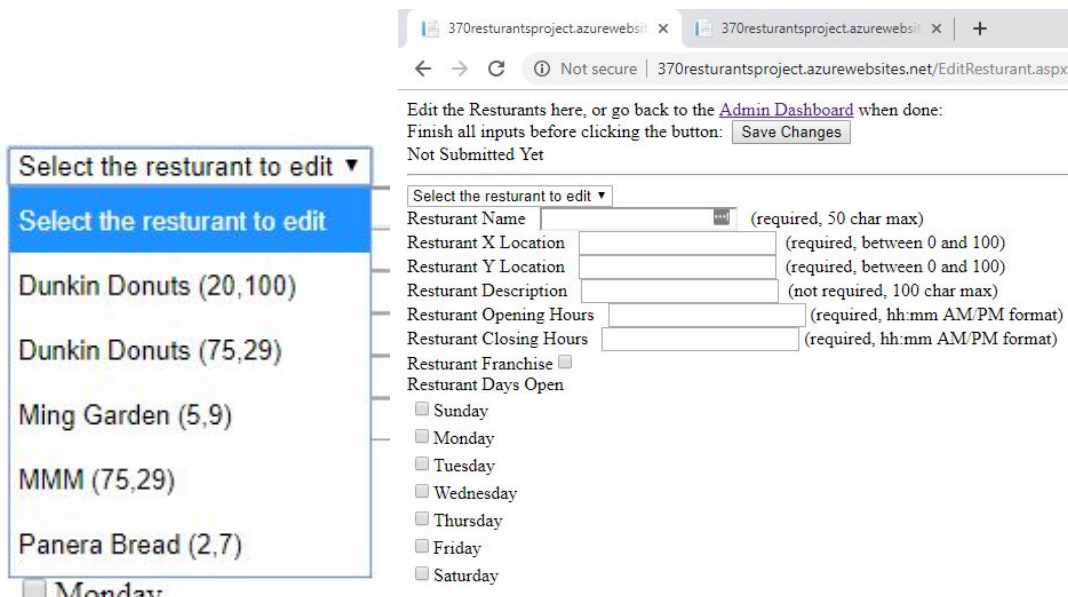
Add a new resturant here, and go back to the [Admin Dashboard](#) when done:
Finish all inputs before clicking the button: 1:00 AM
Resturant with the same name and location already exists

Resturant Name	Dunkin Donuts	(required, 50 char max)
Resturant X Location	75	(required, between 0 and 100)
Resturant Y Location	29	(required, between 0 and 100)
Resturant Description	Donut shop	(not required, 100 char max)
Resturant Opening Hours	8:00 AM	(required, hh:mm AM/PM form

List of Restaurants & Info	
Name: Dunkin Donuts	Location: 20 , 100
Desc:	
Hours: 06:00:00.0 - 06:00:00.0	
Days Open: MonTuesWedThurs	
Name: Dunkin Donuts	Location: 75 , 29
Desc:	
Hours: 6:00 AM - 12:00 AM	
Days Open: SunMonTuesWedThursFriSat	
Name: Ming Garden	Location: 5 , 9
Desc: Chinese Food	
Hours: 10:00 AM - 10:00 PM	
Days Open: SunMonTuesWedThursFriSat	
Name: MMM	Location: 75 , 29
Desc: bar	
Hours: 7:00 PM - 12:00 AM	
Days Open: SunMonTuesWedThursFriSat	

In this example, an attempt to add a duplicate restaurant was made but was caught. Additionally, Dunkin Donuts and MMM have the same address but are valid because they have different names. This is to emulate the real world where multiple franchises can occupy the same property location, such as Pizza Hut/Taco Bell.

EditResturant.aspx



370restaurantsproject.azurewebsites.net

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Edit the Restaurants here, or go back to the [Admin Dashboard](#) when done:
Finish all inputs before clicking the button:

Not Submitted Yet

Select the restaurant to edit ▼

Select the restaurant to edit

Dunkin Donuts (20,100)

Dunkin Donuts (75,29)

Ming Garden (5,9)

MMM (75,29)

Panera Bread (2,7)

Monday

Select the restaurant to edit ▼

Restaurant Name (required, 50 char max)

Restaurant X Location (required, between 0 and 100)

Restaurant Y Location (required, between 0 and 100)

Restaurant Description (not required, 100 char max)

Restaurant Opening Hours (required, hh:mm AM/PM format)

Restaurant Closing Hours (required, hh:mm AM/PM format)

Restaurant Franchise ☐

Restaurant Days Open

☐ Sunday

☐ Monday

☐ Tuesday

☐ Wednesday

☐ Thursday

☐ Friday

☐ Saturday

Upon loading the page, it will be blank with a dropdown menu to select the restaurant to edit. When the restaurant is selected, it will auto populate the input forms with the inputs of the restaurant in the database, and save the current name/x/y as old values to keep track of what is being edited. From there, you can edit the fields with the same check as AddResturant, and if valid the restaurant will be updated when the button is clicked.

This version of the project does not save the changes to the restaurant in the database.

EditMenus.aspx

By default, the page will be blank with a dropdown menu to select the restaurant to edit its menu.

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Edit the Resturants here, or go back to the [Admin Dashboard](#) when done:
Name, Category, and Price1 are required, PriceDesc is used to show text like Small, Large, 16oz, etc.
Character Limits are 50 characters, Price limit is 9999.99

Dunkin Donuts

Select the Resturant
Dunkin Donuts Add Item to Resturant

Item Name: Item Category:

Item Description:

Price1: Price1Desc: Price2: Price2Desc: Price3: Price3Desc:
Price4: Price4Desc: Price5: Price5Desc:

Category: Donuts ItemName: Glazed Donut EDIT
Description:
Price1: 49.99 Price1Desc: Price2: Price2Desc: Price3: Price3Desc:
Price4: Price4Desc: Price5: Price5Desc:

Category: Donuts ItemName: Strawberry Donut EDIT
Description:
Price1: Price1Desc: Price2: Price2Desc: Price3: Price3Desc:
Price4: Price4Desc: Price5: Price5Desc:

Category: Donuts ItemName: Chocolate Dipped Donut EDIT
Description:
Price1: 1.19 Price1Desc: Single Price2: Price2Desc: Price3: Price3Desc:
Price4: Price4Desc: Price5: Price5Desc:

Category: Donuts ItemName: Birthday Donut EDIT
Description:
Price1: 1.19 Price1Desc: Single Price2: 5.49 Price2Desc: Half-Dozen Price3: Price3Desc:
Price4: Price4Desc: Price5: Price5Desc:

Category: Donuts ItemName: Plain Donut EDIT
Description:
Price1: 1.19 Price1Desc: Singl Price2: 5.49 Price2Desc: Half-Dozen Price3: 10.99 Price3Desc: Dozen
Price4: Price4Desc: Price5: Price5Desc:

Upon clicking a restaurant, its menu will be displayed below, and you can add items to that restaurant. Each item needs a name, category, and a price to be accepted. Upon a successful entry, the item will be added to the menu and the menu display below will be refreshed to include the item.

This version of the project does not have functionality for the edit button, along with the delete item button not being present.

Things to Improve

As you can see, some pages have more features than others. As I worked further into the project, I have learned how to do multiple things such as getting the values from a dropdownlist and using that to prepopulate inputs, and refreshing a list upon an item being added in. I have also learned how to do several workarounds to get the layout to work, such as having 2 different data lists for the MainSearch page, one with distance and one without distance shown.

MainSearch

- An actual login system, instead of an if statement

AdminDashboard

- Putting the list of restaurants into columns for easier reading/viewing

AddRestaurant

- Making selecting at least one day required
- Adding the list of restaurants with columns for easier reading/viewing

EditRestaurant

- Making the edit restaurant part actually update, because it stopped working for some reason .

EditMenus

- Implement the edit part, by adding a button to each menu item and clicking on that would load the item credentials into variables to be compared against. Coding wise would make the submit button disappear and a edit button to appear, since they would do two different things (add/edit)
- Implement delete function of the items in the itembox, would need to learn how to have 2 buttons in the same DataList template do 2 different things.
- Implement checks for some of the input values such as the price and description values.