Alia:UVI Dining

CSC 420: Software Engineering
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Final Report

Introduction

The University of the Virgin Islands currently does not have a website that shows their cafeteria menu. In order to see what's on the menu, students, staff, and guests have to visit the cafeteria. To solve this problem, Alias built a UVI cafeteria website.

SoW Form

Design Features & Functions

❖ Staff can log in
❖ Staff can add food
❖ Staff can display food

Bonus:

❖ Staff can add a user.
❖ Staff can log out

Roles

Using MVC pattern (Web development); our roles are as follow:

Rhonda

Frontend(**View**)

Database(**Tables**)

Thalia

Backend(**Controller**)

Database(**Tables & Model**)

First database tables

	table 1		table 2		table 3
	Admin		**stt_Menu**		**stx_Menu**
PK	admin_id	PK	stt_id	PK	stx_id
	admin_key		datatime		datatime
			Breakfast		Breakfast
			Lunch		Lunch
			Dinner		Dinner
		FK	admin_id	FK	admin_id

Database Tables Planning

Group work: Planning Database #5

⊘ Closed   tguadalupe opened this issue 18 days ago · 3 comments

tguadalupe commented 18 days ago · edited ▾   Owner   +☺   ···

So far it seems we have 3 tables. However as Kentopp mention in class about one to many etc. I believe we might need more tables and to take out Breakfast, lunch, and dinner and make the next table.

From excel sheet:

Admin
PK admin_id
admin_key

PinkDots commented 17 days ago   Collaborator   +☺   ···

Yes, I see the issue he spoke about, lets design another table, as we might run into issues with this database

👍 1

This picture shows us planning the Database tables in github.

Link to Database Tables Planning:
https://github.com/tguadalupe/UVI-Dining/issues/5

Final Database tables

	Table 1			Table 2			Table 3			Table 4			Table 5			Table 6
	campus			Admin			Foods			Menu			dish			plan meal
PK	campus_id		PK	admin_id		PK	food_id		PK	menu_id		PK	food_id		PK	Date
	campus_loc			FName			food_name			menu_name		PK	menu_id		PK	Meal
				LName			food_category		PK	campus_id		PK	campus_id		FK	campus_id
				Email		PK	campus_id								PK	menu_id
				Password												
				user_Status												
			PK	campus_id												

Link to Database Tables Planning: https://github.com/tguadalupe/UVI-Dining/issues/5

This is our final database tables.

Thalia - MySql Script

```sql
1   DROP DATABASE `uvi_dining`;
2
3   create database if not exists UVI_Dining;
4   use UVI_Dining;
5
6   -- create campus table to insert STT and STX
7   create table Campus(
8     campus_id INT NOT NULL AUTO_INCREMENT,
9     campus_loc VARCHAR(45),
10    PRIMARY KEY(campus_id));
11
12  -- create admins table for staff info
13  create table Admins(
14    admin_id INT NOT NULL AUTO_INCREMENT,
15    FName VARCHAR(45),
16    LName VARCHAR(45),
17    Email VARCHAR(45),
18    Password VARCHAR(45),
19    user_Status VARCHAR(45),
20    campus_id INT NOT NULL,
21    PRIMARY KEY(admin_id,campus_id),
22    FOREIGN KEY (campus_id) references Campus(campus_id),
23    UNIQUE (Email));
24
25  -- create foods table food
26  create table Foods(
27    food_id INT NOT NULL AUTO_INCREMENT,
28    food_name VARCHAR(45) NULL,
29    food_category VARCHAR(45) NULL,
30    campus_id INT NOT NULL,
31    PRIMARY KEY(food_id),
32    FOREIGN KEY (campus_id) references Campus(campus_id),
33    UNIQUE (campus_id,food_name));
34
35  -- create menu table
36  create table Menu(
37    menu_id INT NOT NULL AUTO_INCREMENT,
38    menu_name VARCHAR(45),
39    campus_id INT NOT NULL,
40    PRIMARY KEY(menu_id));
```

```sql
35    -- create menu table
36    create table Menu(
37      menu_id INT NOT NULL AUTO_INCREMENT,
38      menu_name VARCHAR(45),
39      campus_id INT NOT NULL,
40      PRIMARY KEY(menu_id),
41      FOREIGN KEY (campus_id) references Campus(campus_id),
42      UNIQUE (menu_name));
43
44    create table Dish(
45      food_id INT NOT NULL,
46      menu_id INT NOT NULL,
47      campus_id INT NOT NULL,
48      PRIMARY KEY(food_id, menu_id),
49      FOREIGN KEY (campus_id) references Campus(campus_id));
50
51    create table PlanMeal(
52      MDate DATE,
53      Meal VARCHAR(45),
54      campus_id INT NOT NULL,
55      menu_id INT NOT NULL,
56      PRIMARY KEY(MDate,Meal,menu_id),
57      FOREIGN KEY (campus_id) references Campus(campus_id));
58
59    INSERT INTO campus(campus_loc) values('STT'),('STX');
60
```
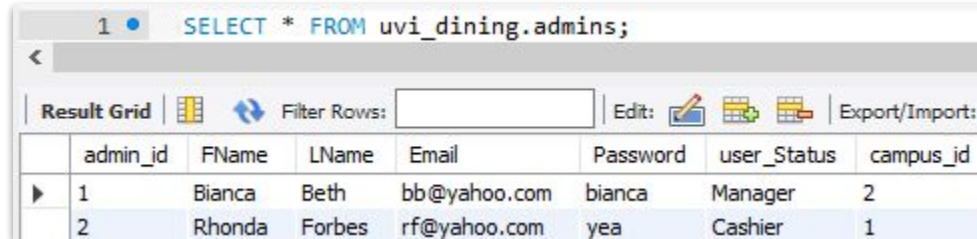
Mysql Script:
- The script contain the creation of the 6 tables: Campus, Admins, Foods, Menu, Dish, PlanMeal.

Thalia - Admins table

```
61    -- Create two staff
62 ●  INSERT INTO admins (FName,LName,Email,Password,user_Status,campus_id) VALUES('Bianca','Beth','bb@yahoo.com','bianca','Manager',2);
63 ●  INSERT INTO admins (FName,LName,Email,Password,user_Status,campus_id) VALUES('Rhonda','Forbes','rf@yahoo.com','yea','Cashier',1);
```

Figure 1 Populating admin tables

```
1 ●    SELECT * FROM uvi_dining.admins;
```

admin_id	FName	LName	Email	Password	user_Status	campus_id
1	Bianca	Beth	bb@yahoo.com	bianca	Manager	2
2	Rhonda	Forbes	rf@yahoo.com	yea	Cashier	1

Figure 2 What's inside the Admins tables

- Here is the Admins tables where I populate the table with a inset command.
- This will be use will be use to insert staff/display staff when they login.

Thalia - Foods table

Figure 1 Populating Foods table

- Here is the Foods table where I populate the table with a inset command.
- This will be use to:
  - display foods to the user when.
  - Let user add foods

Figure 2 What's inside the Foods tables

Thalia - Controller/Model: Login

```
public void Admin_login()
{
    var cmd = Conn.CreateCommand() as MySqlCommand;
    cmd.CommandText = "INSERT INTO admins(FName,LName,Email,Pa
    cmd.Parameters.AddWithValue("@FName", FName);
    cmd.Parameters.AddWithValue("@LName", LName);
    cmd.Parameters.AddWithValue("@Email", Email);
    cmd.Parameters.AddWithValue("@Password", Password);
    cmd.Parameters.AddWithValue("@user_Status", user_Status);
    cmd.Parameters.AddWithValue("@campus_id", campus_id);
    cmd.ExecuteNonQuery();
}
```

Figure 1 Model Class: Login logic for database

```
[HttpPost]
public ActionResult login(logVal model)
{
    var logVal = new logVal()
    {
        Email = model.Email,
        Password = model.Password,

    };
    if (logVal.UserExists())
    {
        Session["FName"] = logVal.FName;
        Session["user_Status"] = logVal.user_Status;
        Session["campus_loc"] = logVal.campus_loc;
        Session["campus_id"] = logVal.campus_id;
        return View("successtest", logVal);
    }
    else
    {
        return View("login");
    };
}
```

Figure 2 Controller Class: Login logic to access names variable for controller

Model:
- Connection from the database.
- Getting variables to be use for the controller.

Controller:
- Call model class
- Get Email & password
- Create if statement
  - It check if the user is in the database or not.

Thalia - Demonstration: Login

Figure 1 Login as the staff "Bianca"

Figure 2 Shows that the staff "Bianca" successfully login &
the database information is display to the staff.

Thalia - Controller/Model:Display Foods

```csharp
//----------Foods----------//
public List<Food> GetFood()
{
    //created list for Foods
    List<Food> foods = new List<Food>();
    var cmd = Conn.CreateCommand() as MySqlCommand;
    cmd.CommandText = "SELECT food_id,food_name, food_category, campus_id FROM foods WHERE campus_id=@campus_id";
    cmd.Parameters.AddWithValue("@campus_id", campus_id);

    using (var dr = cmd.ExecuteReader())
    {
        while (dr.Read()) {
            foods.Add(new Food(int.Parse(dr["food_id"].ToString()), dr["food_name"].ToString(),
                dr["food_category"].ToString(), int.Parse(dr["campus_id"].ToString())));
        }
    }
    return foods;
}
```

Figure 1 Model Class: Display foods logic for database

```csharp
public ActionResult Foods(logVal model)
{
    var l = new logVal();
    l.campus_id = int.Parse(Session["campus_id"].ToString());
    ViewBag.Foods = l.GetFood();
    return View();
}
```

Figure 2 Controller Class: Display foods logic to access names variable for controller

Model:
- Connection from the database.
- Getting variables to be use for the controller.
- Use a while loop to display a list of foods

Controller:
- Call model class
- Get campus_id & Getfoods method

Thalia - Demonstration: Display Foods

NEW FEATURE!

Welcome Bianca !

Campus: STX

Status: Manager

Food not there? Go to: **Add Food** to add a food to the list.

Food id	Foods Name	Categories
12	Bacon	Meat
16	Fish	Meat
13	Meatballs	Meat
14	Milk	Dairy
15	Pizza	Meat

Figure 1 Shows that the foods from St. Croix display to the staff "Bianca"

Thalia - Controller/Model:Add Foods

```
//-----Adding Foods----//
public void InsertFood()
{
    var cmd = Conn.CreateCommand() as MySqlCommand;
    cmd.CommandText = "INSERT INTO Foods(food_name,food_category,campus_id) values(@food_name,@food_category,@campus_id)";
    cmd.Parameters.AddWithValue("@food_name",food_name);
    cmd.Parameters.AddWithValue("@food_category",food_category);
    cmd.Parameters.AddWithValue("@campus_id", campus_id);
    cmd.ExecuteNonQuery();
}
```

Figure 1 Model Class: Add foods logic for database

```
//Adding foods
public ActionResult addFoods()
{
    return View();
}
[HttpPost]
public ActionResult addFoods(logVal model)
{
    var food = new logVal()
    {
        campus_id = int.Parse(Session["campus_id"].ToString()),
        food_name = Request.Form["food_name"],
        food_category = Request.Form["food_category"]
    };
    food.InsertFood();
    return View();
}
```

Figure 2 Controller Class: Add foods logic to access names
variable for controller
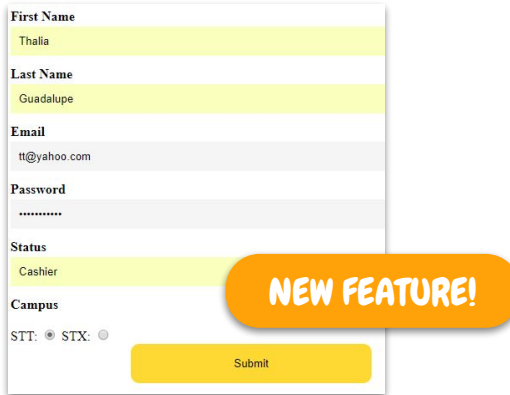
Model:
- Connection from the database.
- Getting variables to be use for the controller.

Controller:
- Call model class
- Get campus_id, food_name, & food_category.

Thalia - Demonstration: Display Foods

Figure 1 Shows that the Staff can add foods to the list of Foods.

Figure 2 Shows that the Staff successfully added a food that they wanted in the Food table list.

Thalia - Controller/Model: Add user

```
public bool UserExists()
{
    var cmd = Conn.CreateCommand() as MySqlCommand;
    cmd.CommandText = "SELECT FName,user_Status,campus_loc, campus.campus_id FROM admins" +
        " join campus on campus.campus_id = admins.campus_id WHERE Email=@Email AND Password=@Password";
    cmd.Parameters.AddWithValue("@Email", Email);
    cmd.Parameters.AddWithValue("@Password", Password);
    // try
    using (var userDataReader = cmd.ExecuteReader())
    {
        if (userDataReader.Read())
        {
            FName = userDataReader["FName"].ToString();
            user_Status = userDataReader["user_Status"].ToString();
            campus_loc = userDataReader["campus_loc"].ToString();
            campus_id = int.Parse(userDataReader["campus_id"].ToString());
            return true;
        }
    }
    return false;
}
```

Figure 1 Model Class: Add user logic for database.

```
[HttpPost]
public ActionResult SignUp(logVal model)
{
    var worknuh = new logVal()
    {
        FName = Request.Form["FName"],
        LName = Request.Form["LName"],
        Email = Request.Form["Email"],
        Password = Request.Form["Password"],
        user_Status = Request.Form["user_Status"],
        campus_id = int.Parse(Request.Form["campus"])
    };
    worknuh.Admin_login();
    return View();
}
```

Figure 2 Controller Class: Add user logic to access names variable for controller

Model:
- Connection from the database.
- Getting variables to be use for the controller.
- Create if statement to read in data.

Controller:
- Call model class
- Get FName, LName, Email, Password, user_Status, campus_id

Thalia - Demonstration: Adding staff members

First Name

Thalia

Last Name

Guadalupe

Email

tt@yahoo.com

Password

....

Status

Cashier

Campus

STT: ○ STX: ○

Submit

NEW FEATURE!

Figure 1 Shows that the Staff can add a staff.

	admin_id	FName	LName	Email	Password	user_Status	campus_id
	1	Bianca	Beth	bb@yahoo.com	bianca	Manager	2
	2	Rhonda	Forbes	rf@yahoo.com	yea	Cashier	1
	3	Professor	Kentopp	kentopp@yahoo.com	123@Godisgood	Professor	2
▶	4	Thalia	Guadalupe	tt@yahoo.com	123@Pokemon	Cashier	1

Figure 2 Shows that the Staff successfully added a staff member to the database.

Thalia - Mysql: SQL Queries test

```
126    -- list all menus and what they contain
127 •  select m.menu_name , f.food_name
128    from Menu m join Dish d on d.menu_id = m.menu_id and d.campus_id = m.campus_id
129    join Foods f on f.food_id = d.food_id and f.campus_id = d.campus_id;
```

Figure 1 SQL queries that select and from menu and join the dish table to get the menu_name, food_name, food_id & campus_id

menu_name	food_name
▶ Menu for Monday	Milk
Menu for Monday	Rice
Menu for Monday	Orange
Menu for Tuesday	Apple
Menu for Tuesday	Rice
Menu for Wednesday	Sprite
Menu for Wednesday	Rice

Figure 2 SQL queries result when query ran. Shows that the food name is associated to the name of the menu_name.

	food_id	menu_id	campus_id
▶	7	1	1
	8	2	1
	9	3	1
	10	1	1
	10	2	1
	10	3	1
	11	1	1
	12	2	1

Figure 3 SQL queries result when query ran for Dish table

	menu_id	menu_name	campus_id
▶	1	Menu for Monday	1
	2	Menu for Tuesday	1
	3	Menu for Wednesday	1

Figure 4 SQL queries result when query ran for Menu table

Purpose:
To test if our database can let a user select foods item and give it a name to create a meal combo.

Thalia - GitHub: Post Issue: Login

Issue with login #1

Closed tguadalupe opened this issue 23 days ago · 1 comment

tguadalupe commented 23 days ago

Input value from the user is not being compared to the database values.

😕 1

tguadalupe commented 21 days ago

Issue solved!

👍 1

Issue:
- My user input value was not comparing if user is in the database.

Resolved:
- If statement was not correct.
- Comparing variable to itself instead of the user input

Link to Issue Form: https://github.com/tguadalupe/UVI-Dining/issues/1

Thalia - GitHub: Post Issue: SignUp Issue

Sign Up Issue: An unhandled exception occurred while processing the request. #2

Closed tguadalupe opened this issue 21 days ago · 8 comments

tguadalupe commented 21 days ago — Owner

Try to input campus location info to campus table. However, I came across this error:

MySqlException: Cannot add or update a child row: a foreign key constraint fails (`uvi_dining` . `admins` , CONSTRAINT `admins_ibfk_1` FOREIGN KEY (`campus_id`) REFERENCES `campus` (`campus_id`))

tguadalupe added the **bug** label 21 days ago

tguadalupe self-assigned this 21 days ago

PinkDots commented 21 days ago — Collaborator

I wonder , maybe we need a different sql query.

tguadalupe commented 21 days ago · edited ▾ — Owner

@PinkDots
I was wondering the same thing.
Here's what I currently have in the LogValidator.cs Model:

```
cmd.CommandText = "INSERT INTO campus(campus_id,campus_loc) values (@campus_id,@campus_loc)";
        cmd.Parameters.AddWithValue("@campus_id", campus_id);
        cmd.Parameters.AddWithValue("@campus_loc", campus_loc);

        //var cmd1 = Conn.CreateCommand() as MySqlCommand;
        cmd.CommandText = "INSERT INTO admins(FName,LName,Email,Password,user_Status,campus_id)
        cmd.Parameters.AddWithValue("@FName", FName);
        cmd.Parameters.AddWithValue("@LName", LName);
```

Issue:
- Attempt to insert campus option for user to pick which campus their are from.

Resolved:
- Campus table was missing insert values for STT.
- It must have populated value for campus.

Link to Issue Form: https://github.com/tguadalupe/UVI-Dining/issues/2

Rhonda - View Welcome Page

Home   Menu   Contact   About Us

St. Thomas   St. Croix

Sign in   Location   Hours of Operation
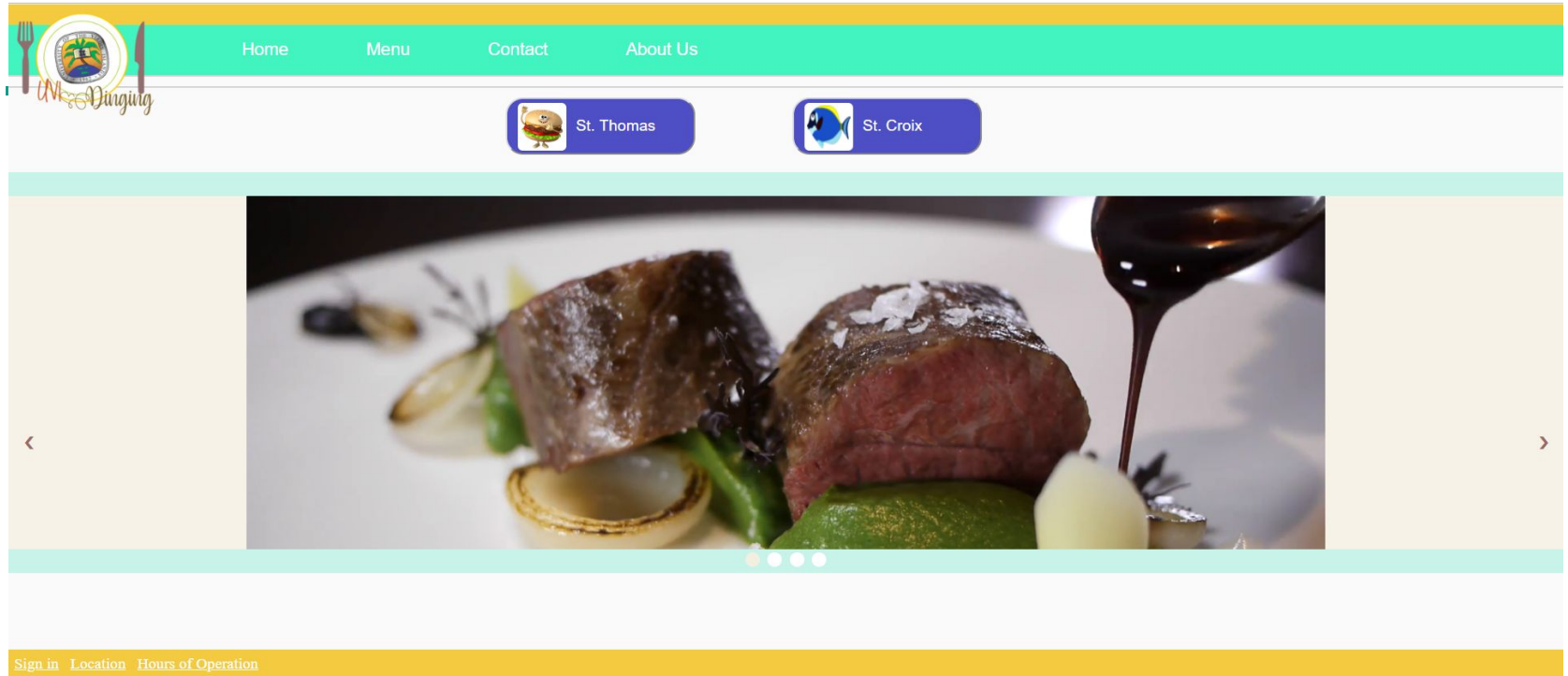
This is the welcome page.

This is the first page all users will see.

Rhonda - Welcome Page Slideshow

‹ ›

This is the welcome page slideshow.

Slideshow is auto and manual.

Rhonda - Welcome Page Navigation Bars
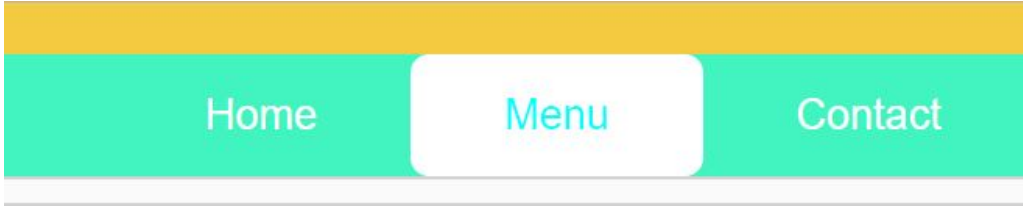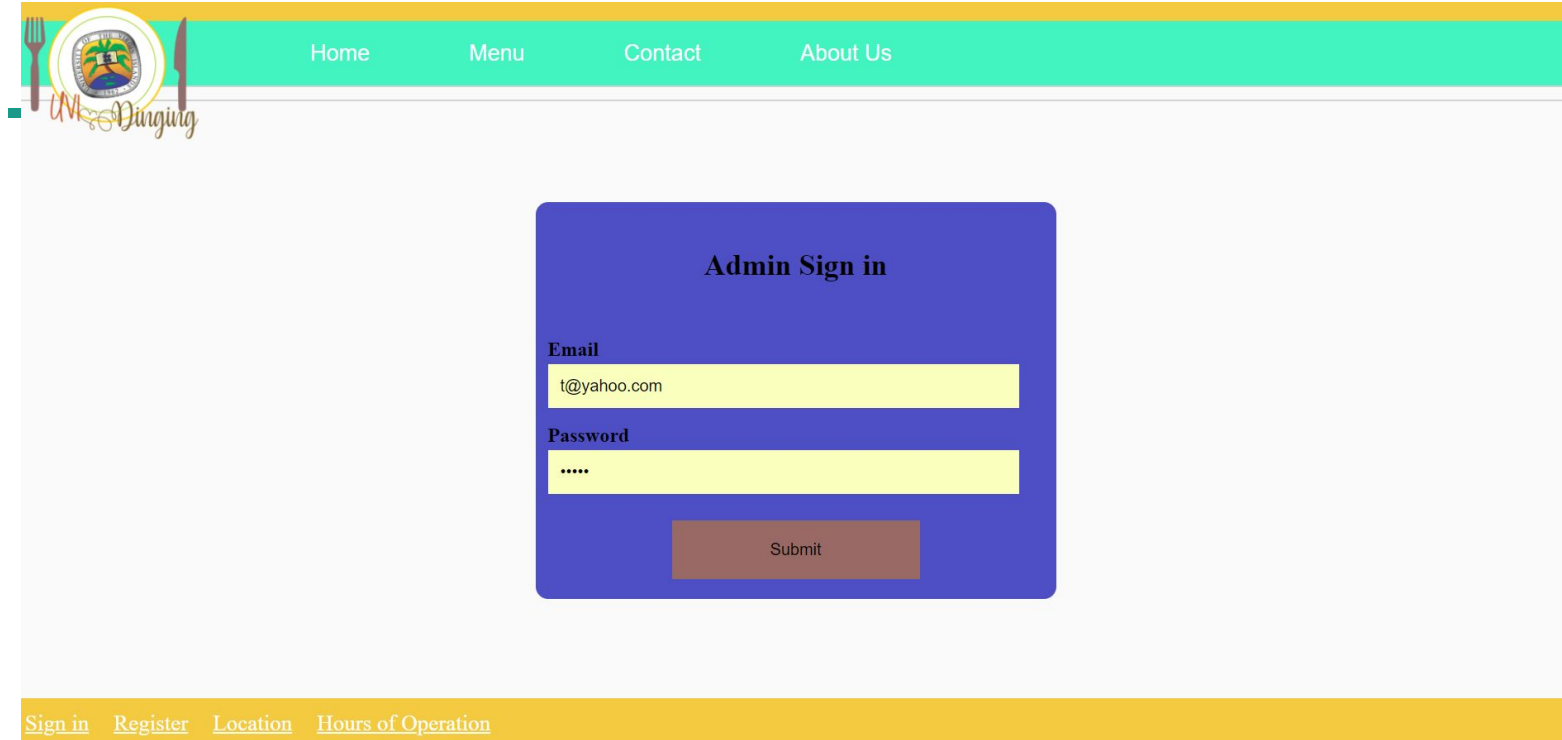
This is the welcome page features.

Top navigation and bottom navigation bars have

hover feature.

Rhonda - Sign in Page

Admin Sign in

Email

t@yahoo.com

Password

•••••

Submit

This is the sign in page.

This is the page the staff will sign in to.

Rhonda - Sign in Page Form

This is the sign in page.

Users have to enter an email address and password.

Rhonda - Admin Page

NEW FEATURE!

WELCOME,

CAMPUS: STATUS:

⌂ Home

Add User

⏻ Log Out

+ Food

+ Add Food

This is the admin page

Cafeteria workers will see this page after signing in.
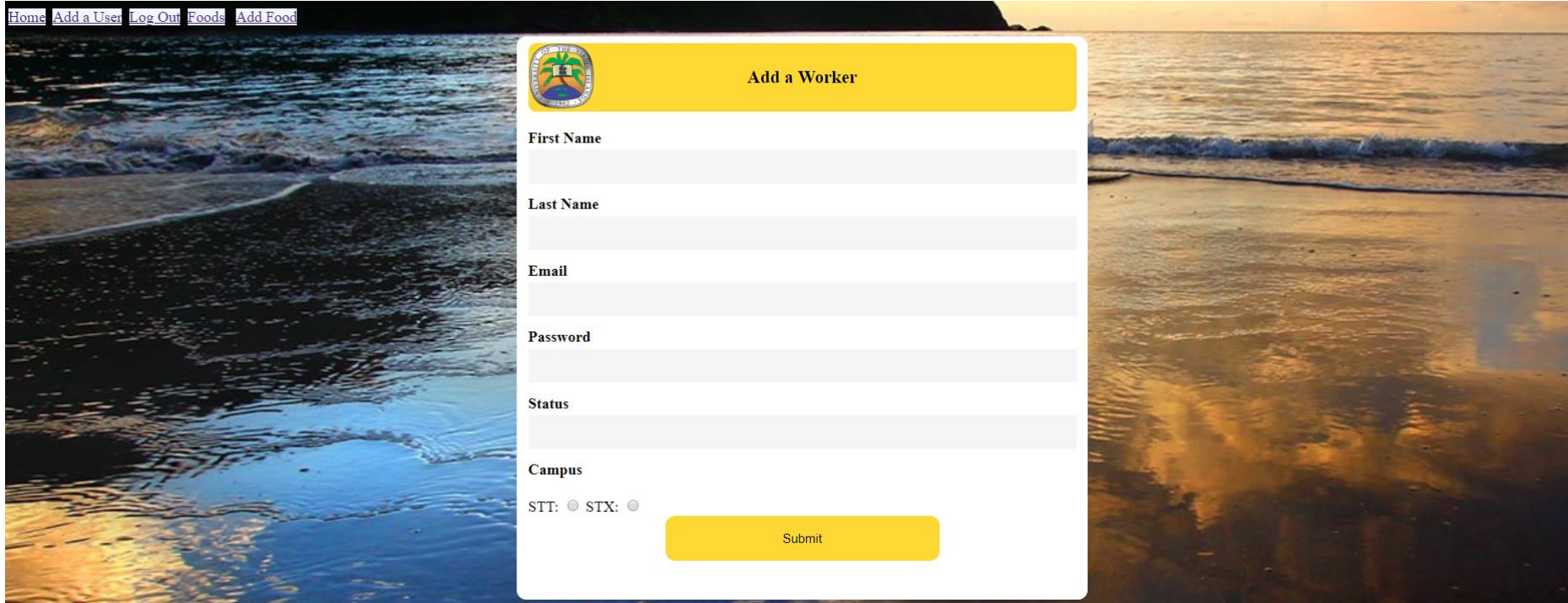
Rhonda - Admin Page Navigation Bar

NEW FEATURE!

WELCOME,

CAMPUS: STATUS:

🏠 Home

Add User

⏻ Log Out
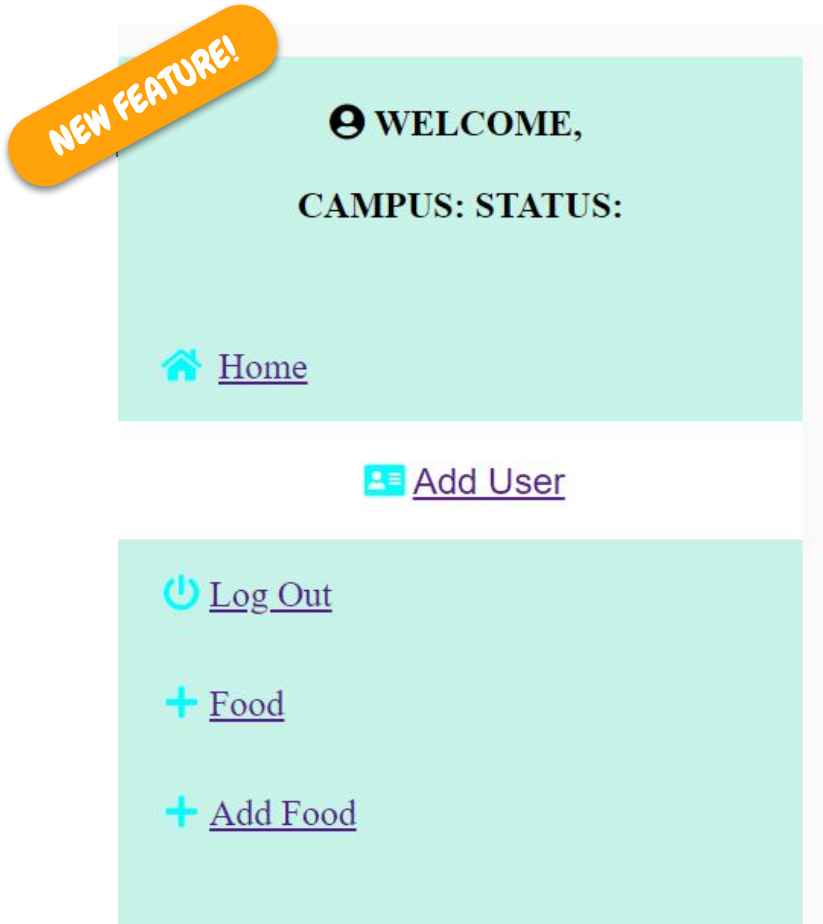
＋ Food

＋ Add Food

Admin page navigation bar.

Has hover feature.

Rhonda - Add Worker Page

Add a Worker

First Name

Last Name

Email

Password

Status

Campus

STT: ⚪ STX: ⚪

Submit

Add worker page.

Where cafeteria workers can add coworkers.

Rhonda - Add Worker Page Form

Add a Worker

First Name

| |

⚠ Please fill out this field.

Last Name

Add worker page.

Where cafeteria workers can add coworkers.

Email

skies|

⚠ Please include an '@' in the email address. 'skies' is missing an '@'.

Password

•••••••

Rhonda - Other Pages Template

NEW FEATURE!

Home   Menu   Contact   About Us

Sign in   Register   Location   Hours of Operation
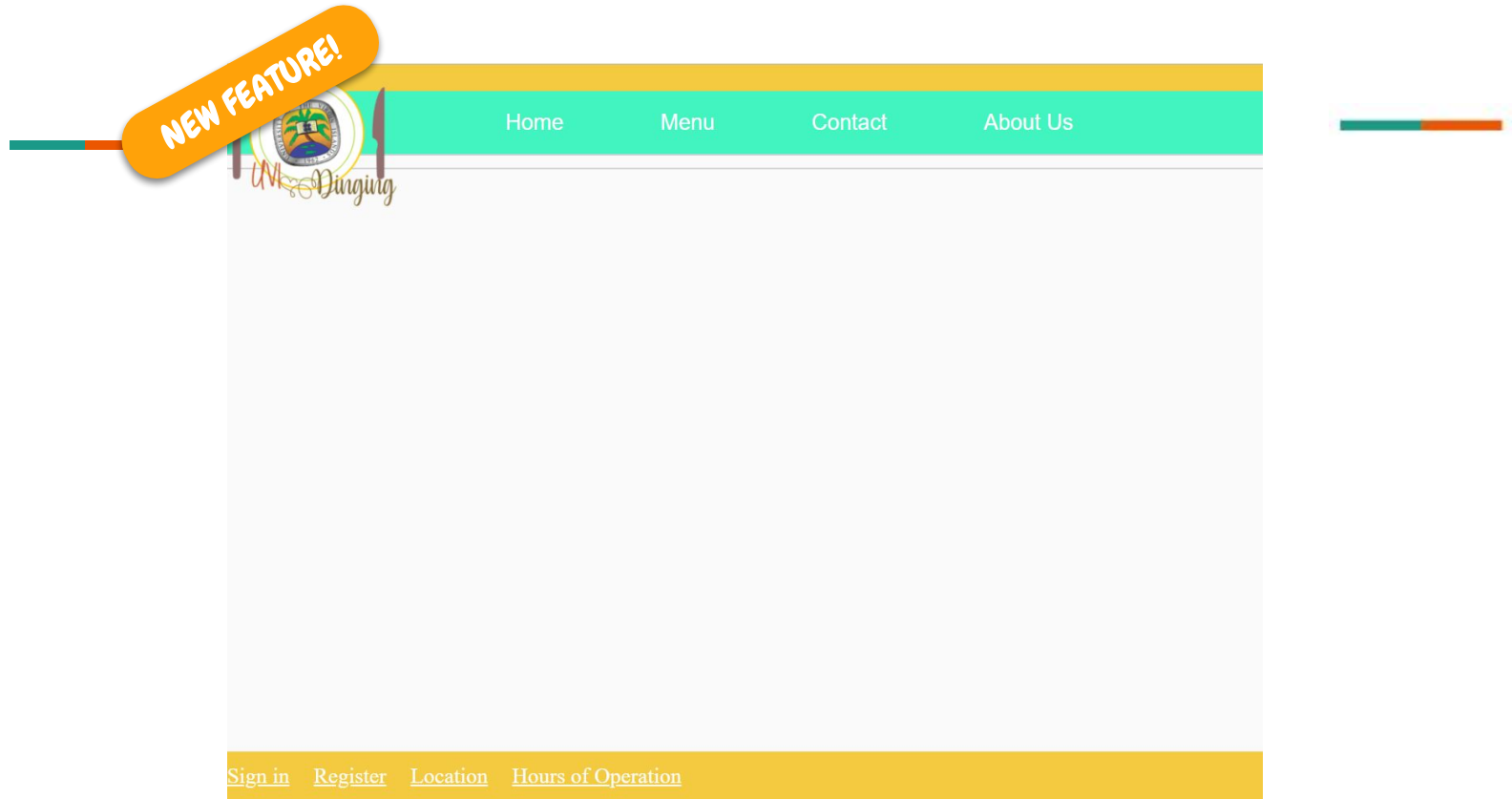
Template of other webpages.

Rhonda - GitHub Repository

This is our github repository.

It has the problems we encountered and our project.

Rhonda - View Errors

Welcome page and food page view errors.

Here is the screenshot of me posting my errors on github.

PinkDots commented 8 hours ago — Collaborator

styling food pages causes the program to not work.

campus id error

tguadalupe commented 3 hours ago — Owner

Can you paste the code to the area that might cause the issue? We can debug it live together on blackboard collaborate.

PinkDots commented 21 days ago — Collaborator

Slideshow not working properly.
Stx and Stt Menu buttons not aligned right.

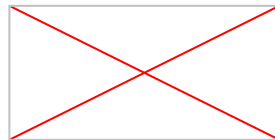**tguadalupe** commented 21 days ago • edited ▼ — Owner

@PinkDots
What's the issue with the slideshow?

Is the stx and stt menu buttons at the top or bottom?

Link to Issue Form:
https://github.com/tguadalupe/UVI-Dining/issues/3

https://github.com/tguadalupe/UVI-Dining/issues/6

Rhonda - Other Github Errors

tguadalupe commented 21 days ago   Owner +☺ ⋯

Try to input campus location info to campus table. However, I came across this error:

MySqlException: Cannot add or update a child row: a foreign key constraint fails (`uvi_dining` . `admins` ,
CONSTRAINT `admins_ibfk_1` FOREIGN KEY (`campus_id`) REFERENCES `campus` (`campus_id`))

🏷 **tguadalupe** added the **bug** label 21 days ago

👤 **tguadalupe** self-assigned this 21 days ago
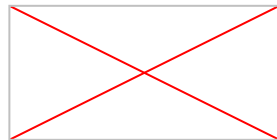
PinkDots commented 21 days ago   Collaborator +☺ ⋯

I wonder , maybe we need a different sql query.

This is a picture of errors Thalia encountered

Link to Issue Form:
https://github.com/tguadalupe/UVI-Dining/issues/2

Group - Project download link

If you want to see our project or play with it you can
download our project from github.
Thank you

Project link:
https://github.com/tguadalupe/UVI-Dining