CS306 - Final Project Report
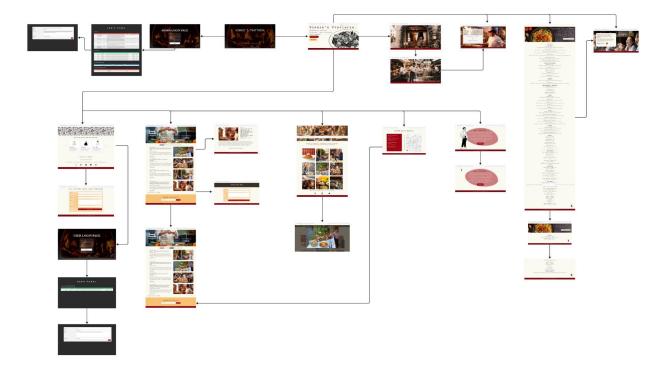## **Vinnie's Trattoria**

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1. Project Overview

This project is an improved version of the previous class, where the improvements come in the form of new pages, the usage of PHP & MYSQL, Bootstrap, Jquery & Jquery UI, AJAX & JSON, and more JAVASCRIPT. The idea remains the same, however, everything has a new look and there are a lot of improvements. So, to begin with, head over to localhost/CS306/index.php. This page is the main page of the project and contains an admin route or a user route to visit the restaurant page. It also calls through AJAX a PHP file to create the database and insert a SQL file.

Here is where the project starts. Below (& in the zipped folder) I have provided a Flowchart that depicts routes one can choose to go on and what happens if you click on different links.

*(FIGMA flowchart is provided insidde the folder in a pdf format for easier navigation and detail checking)

2. Table description

This project contains a total of 7 tables:

1. Blog -- ID-Title-Author-Content-Date_Created-Image_URL -- Contains information about the blogs added to the website. 4 entries are already provided.
2. Reviews -- ID-Name-Email-Review-Image_URL -- Contains information about the review added to the website. 8 entries are already provided.
3. Job_app_files -- ID-Name-Data-Created -- Contains the files of job applicants that have applied to become part of the team. Contains one example entry and it is in the form of a BLOB datatype.
4. Newsletter -- ID-Email- Contains the emails of people that have subscribed to the newsletter.
5. Menu -ID-Name-Description-Price-Category -- Contains menu items available at the restaurant. The data is added through AJAX & JSON as the items are inside a menu CSV file in the same directory. The PHP file that does the upload is called the home.html page. *(If you click on the menu page and nothing shows up, go back to home.html and everything should work properly.)
6. Users - ID-Username-Password -- Contains login credentials for the admin to access the admin panel.
7. User review - A JOIN table contains the email of the user that left a review and a password credential so they can enter the user panel where information of the current user id and their reviews are displayed.

While most of the tables are created in the beginning, data is being added to them at every step and page of the website either through PHP or AJAX & JSON parsing.

3. Code Organization and Project functionalities

Below is a representation of the project directory and a small explanation for each page.

- Index.php - The main page, can direct to the home page or admin login.
  - CSS
    - general.css - simple css for header and navbar that are created with JS
  - JavaScript
    - gallery.js - JS script that makes images full-size and can navigate through the gallery.html page images.
    - header.js - creates a bootstrap collapsable navbar element for HTML pages
    - phpheader.js - creates a bootstrap collapsable navbar element for PHP pages
    - phpheadernest.js - creates a bootstrap collapsable navbar element for PHP pages inside another directory, same as option above however the href links need to have another "../" to access the right files
  - DBCREATE
    - dbcreate.php - creates the database if it doesn't exist and inserts the SQL file below into the database
    - 306.sql - creates and populates tables
  - DBMS
    - db.php - makes a connection with the database
    - dbconfig.php - contains information about the database
  - PHP
    - BLOGPHP
      - blog_index.php - the main page for the blog part of the website, displays every blog inside the database with PHP and Bootstrap as well as contains multiple sorting algorithms to display the blog entries in different sorting based on columns. Has a link that takes you to add a blog or read more about a certain blog. Also contains a newsletter form.
      - blog.php - displays individual blog entries through PHP and Bootstrap.
      - add.php - form that lets you add a blog through php.
    - REVIEWPHP

- ● reviews.php - A main page about the reviews on the website. Displays each review entry in a carousel slider. Has a link to add a review and one that takes you to a user login in case you want to edit or delete a blog.
- ● add_review.php - contains a form to add a review into the database through PHP, will ask for email and password as well to add into user-review table.
- ● userlogin.php - user login form that takes the credentials in the user-review table. Creates a session id that is used in the user panel.
- ● user_panel.php - Contains only reviews where the user's session id (used to get an email from user-review) matches the reviews of the same email. Has the option to edit or delete the reviews only made by the user.
- ● user_edit.php - a form used to edit reviews. Calls upon user_update.php that insert the new data and updates the old data.
- ● user_update.php - used to update the data in the review table.
- ● user_delete.php - used to delete reviews.
- ■ MENUPHP
  - ● menu.php - the main menu page that contains every menu item, displayed with PHP, and the menu category serves as a header for items with the same category. Has a live search function with AJAX and also a simple use of JQUERY that I encourage you to check by yourself.
  - ● menu.csv - CSV file that contains the menu items.
  - ● menuitemns.php - Gets menu items from the menu table and displays them within bootstrap div containers.
  - ● import.php - used to import the menu.csv to the menu table with AJAX & JSON parsing. *(commented out, however there is an option to download the menu.json file)
  - ● search.php - fetches menu items that contain the words provided in the search input whether it's part of name, description, or category.
- ■ ADMIN
  - ● admin.php - admin login page.
  - ● admin_panel.php - contains every table inside the database and actions such as delete, edit, or download.
  - ● admin_edit.php - used to edit blog entries.
  - ● admin_update.php - used to update the entry edited.

- ● admin_delete.php - used to delete the item selected.
  - ■ JOBFILE
    - ● add_file.php - used in the hiring.php page to insert the cv. pfd file into the blob data type.
    - ● get_file.php - used to download the job application file in the admin panel.
  - ■ hiring.php - Simple hiring page that has a JQUERY UI drag and drop option where user can upload their cv.
  - ■ newsletter.php - used to insert the subscription email into the database.
- ○ HTML
  - ■ home.html - landing page of the website. Contains a button to go to the menu or about us pages.
  - ■ about_us.html - Bootstrap carousel that displays different pictures as well as has a link to take users to the hire page.
  - ■ delivery.html - html page containing simple information about delivery options.
  - ■ gallery.html - gallery page which contains pictures of the restaurant, can view them in full screen and navigate through them.
  - ■ contact.html - contains information about open hours, location, and a link to socials and newsletter.
  - ■ credits.html - contains information about me, a link to download the design flowchart, and also a way for me to display my JQUERY effects skills. Has different js effects that hide, animate, make borders, slide, blur, encrypt decrypt, and many more.
- ○ IMAGES - contains every image used in this project.
- ○ FLOWCHART - contains the design flowchart pdf.

Even though I have shortly mentioned here and there the functionalities used in the project, there are still many more that I encourage you to discover. From simple CRUD operations to table joins, SESSION creation and usage, AJAX functions and LIVE SEARCH algorithms, JSON parsing and dynamic display, JQUERY UI and JQUERY functions and JQUERY effects, ERROR TRAPING and VALIDATION methods, from simple JS hide and show functions to complex SORTING algorithms, this project has them all.

I have spent a long time doing this project, I hope you enjoy it as much as I do.   - Oni Luca