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CSE 428

< Class and Structure Diagrams >

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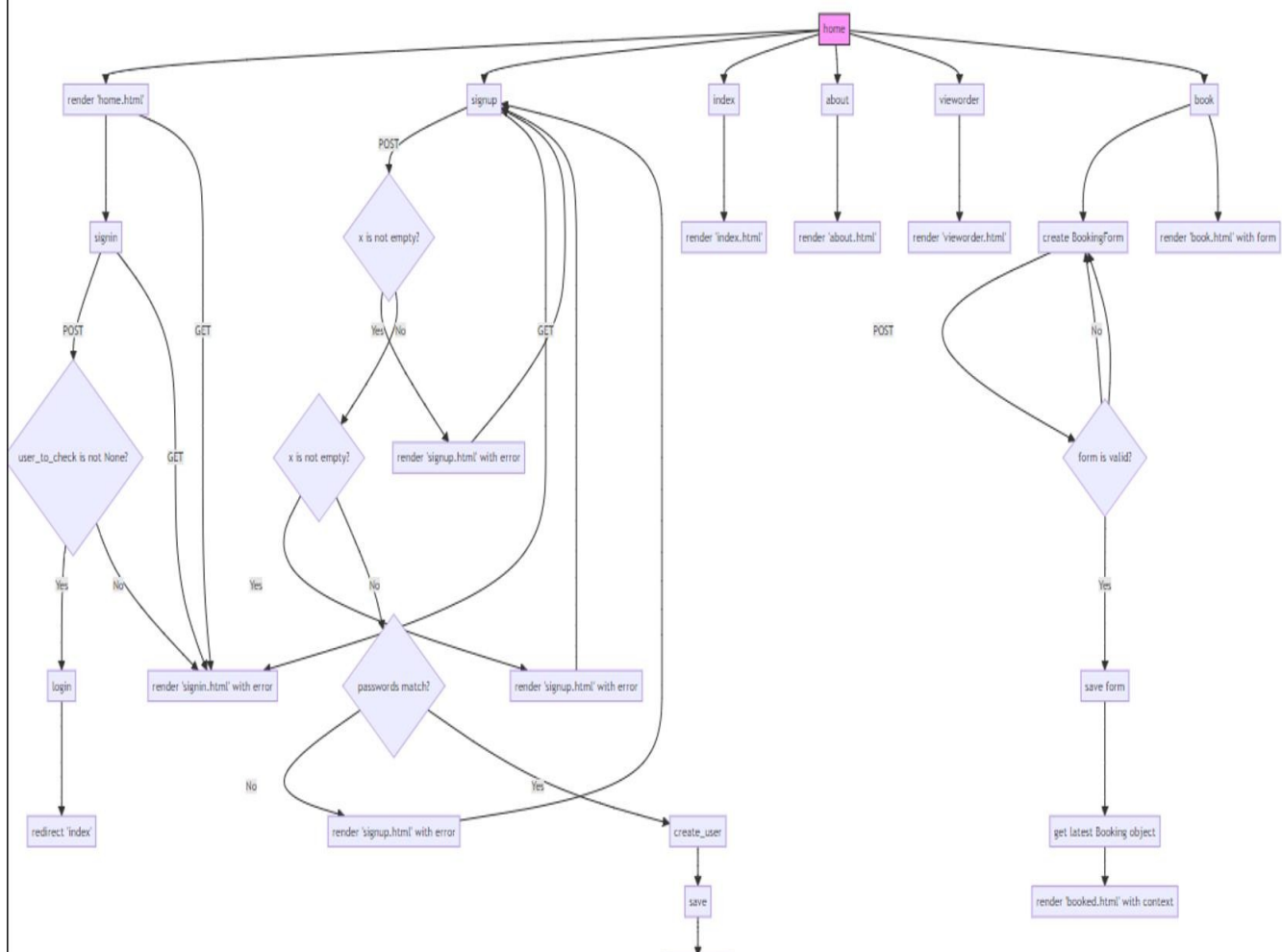
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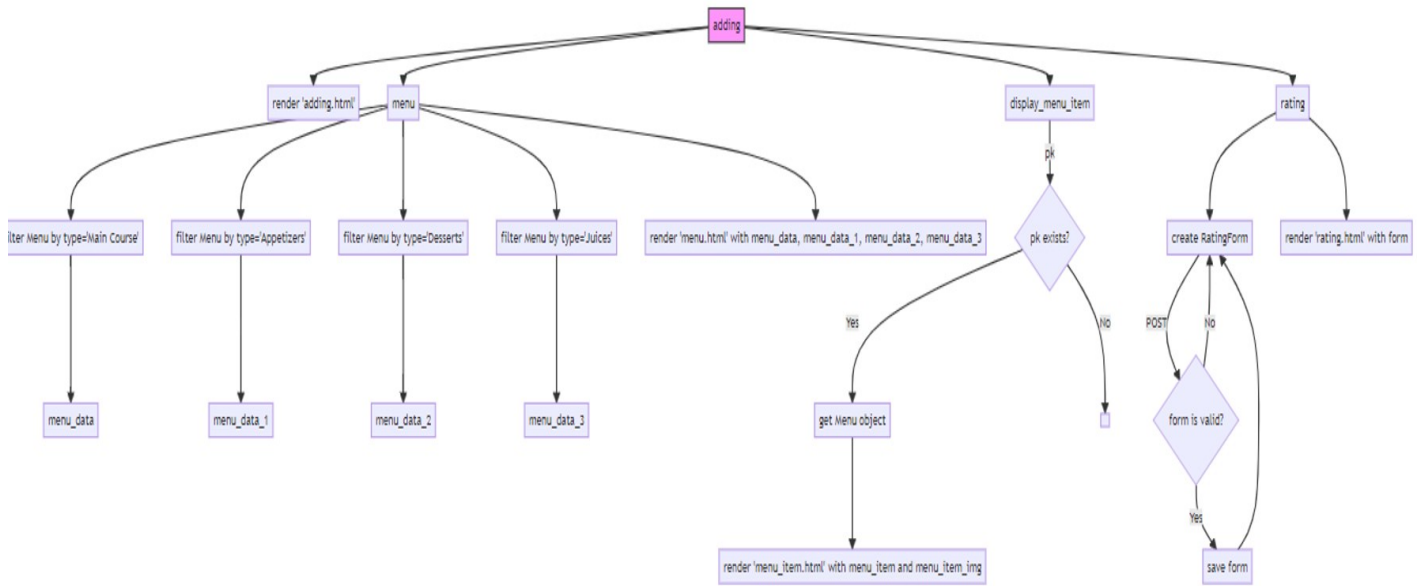
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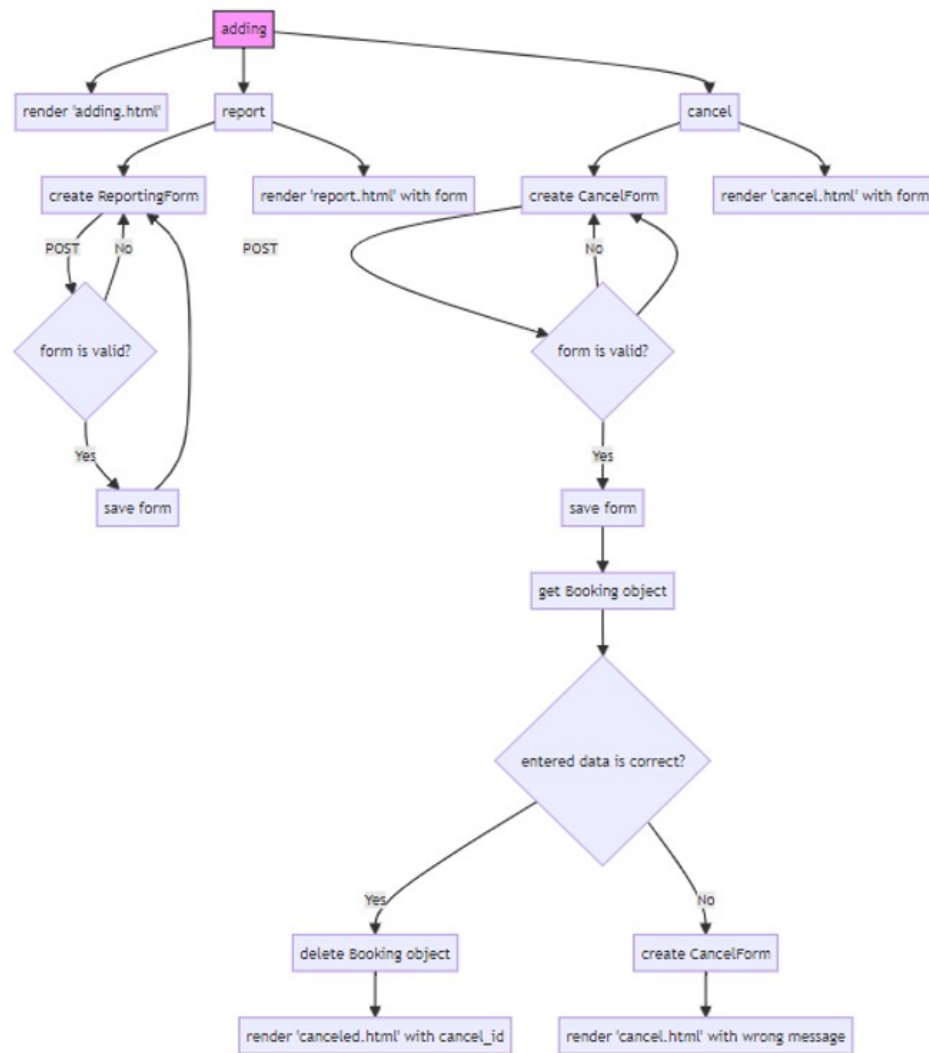
ENG. Ziad Rohayiem

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1. Structure Diagrams:







The chart represents the structure of a table reservation website for a restaurant, detailing how users navigate through various pages and functionalities.

At the entry point, the home node renders the home.html page, welcoming users to the website. From here, the index node serves as a central hub, guiding users to several essential pages. These include index.html for general information, about.html for details about the restaurant, and vieworder.html, which uses the Booking Form to allow users to view their existing reservations.

When users want to make a new reservation, they are directed to book.html, which renders the booked.html page after processing the booking details. If users need to sign in, they are redirected through adding.html. The menu.html path is dedicated to showcasing the restaurant's menu, filtering and displaying menu data across pages like main_data_1, main_data_2, and main_data_3. Additionally, users can view specific menu items via menu_item.html, which includes images and descriptions of each dish.

For managing reservations, the cancel.html path allows users to cancel their bookings through the Cancel Form, subsequently rendering the canceled.html page. Other features include rating.html for submitting reviews using the Rating Form and report.html for reporting issues through the Reporting Form:

1. Home Node

"home": Starting point of the application.

Navigates to "index", "about", "vieworder", or "book" pages.

2. Authentication and Sign-Up Process

- "signup":
 - GET request renders "signup.html".
 - POST request checks form fields:
 - If form is not valid (e.g., missing fields), renders "signup.html" with an error message.

- If passwords do not match, renders "signup.html" with an error message.
- If form is valid, creates a user account, saves the form data, and redirects to "signin".
- "signin":
 - GET request renders "signin.html".
 - POST request validates user credentials:
 - If credentials are invalid, renders "signin.html" with an error message.
 - If credentials are valid, logs the user in and redirects to "index".

3. Booking Process

- "book":
 - Renders "book.html" with a booking form.
 - POST request processes the form:
 - If form is not valid (e.g., missing fields), re-renders "book.html" with the form and an error message
 - If form is valid, saves the booking, retrieves the latest booking object, and redirects to "booked" page.

4. View Order Process

"vieworder":

Renders "vieworder.html" with a Booking Form to view existing reservations.

5. Navigation To Pages

"index"

-Renders "index.html".

"about"

Renders "about.html".

6. Other Features

"menu"

- Renders "menu.html" to display the restaurant's menu.
- Sub-paths (e.g., "main_data_1", "main_data_2", "main_data_3") for filtering and displaying menu data.

- "display_menu_item":

- Renders "menu_item.html" to display specific menu items with images and descriptions.

- "cancel":

- Renders "cancel.html" for users to cancel their bookings.
- Uses "CancelForm" to process cancellation requests.
- - Renders "canceled.html" after a successful cancellation.

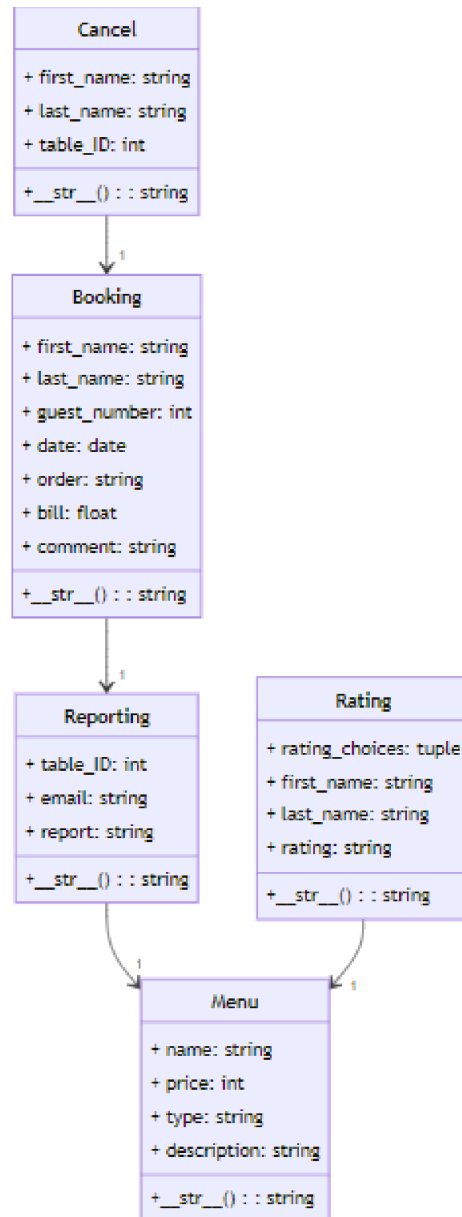
- "rating":

- Renders "rating.html" for users to submit reviews.
- Uses "RatingForm" to process review submissions.

- "report":

- Renders "report.html" for users to report issues.
- Uses "ReportingForm" to process issue reports

2. Class Diagram:



3.ER Diagram:

