MUDining

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ITCS210 - Web Programming

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Introduction

"MUDining" is a restaurant review and recommender website that focuses on the restaurants near Mahidol University (Salaya campus). The main feature of this site is the restaurant recommender system, which will recommend interesting restaurant for the user based on the user's food preferences. The users can also see the list of popular in the area, and they can choose to write their own reviews and rate each restaurant for the other users to see.

Web Accessibility Concerns

The target users surely are people around Salaya campus, especially students and staffs. Our concern of Web Accessibility is for the people who have vision problem, we use colors with high contrast between the text and the background, so that it will be easy to read. Also, the main navigations and the main functionalities are large in size, such as the recommender button, the restaurant pictures, or the review thumbnails, making the website easier to see and used by people with low vision.

Client-Side Components

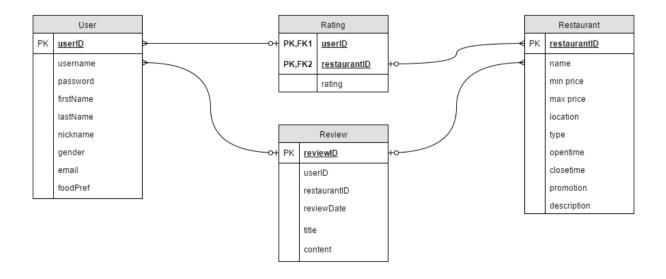
HTML/HTML5	It is used for constructing most elements in our web page. Configurations	
HIML/HIMLS	of elements like input, button, image are made here.	
	It drives web page decoration. The style, animation and transition of	
CSS/CSS3	elements are set here. The interactive recommend button is the	
	featuring example.	

	In order to achieve responsiveness and compatibility, Bootstrap is	
Bootstrap	organizing the display of every web page element, in terms of sizing,	
	spacing and also enhancing the CSS. To picture, search results in	
	Restaurants page are responsive to the change of browser window size –	
	establishing the best layout for the current screen.	
JavaScript	Our website needs it for programming certain elements like the price range	
	slider in Restaurants page and the rating panel in each restaurant page.	
jQuery	Often, events must be achieved on elements so that they can react to	
	the user. For instance, we show the recommendation page after the	
	user click the recommend button. In a complex case, we even use it to	
	highlight the menu based on which page that the user located to.	

Server-Side Component

We use PHP for almost all pages as the method to access the database for retrieving and storing the data. For example, we fetch data from the restaurant database to show in the restaurants.php and fetch the data from the user database to authenticate the user login to the website.

Database Structure



Operation	Related DB(s)	Purpose	Explanation
Insert	User	Register	After registration, entered user
			information will be inserted into the user
			database.
	Review	Write review	A user can write a review for each
			restaurant
	User	Log in	A login request satisfies when the user
Select			database contains its data.
Select	User	Edit profile	A user can edit its profile e.g. change food
			preferences.
	User/Review	Edit review	A review can be altered if its maker is the
			current user.
	Restaurant	Search	A user can search for restaurants using a
			query and filters we provided in
			Restaurants page.
	User/Restaurant	Recommend	Restaurants will be selectively chosen
Select			based on criteria we have set regarding
			information we know about restaurants
			and/or users.
	Review	Show	A user can view all restaurants reviews
			shown in Reviews page.
	Rating	View	All ratings of a restaurant are fetched to
			calculate their average, then display in
			each restaurant page.
Update	Rating/User	Show/Rate	A restaurant page displays current rating
			value of a user if logged in.

Operation	Related DB(s)	Purpose	Explanation
Update	Rating	Re-rate	It also allows a user to change the rating
			value of any rated restaurant.
Delete	Review/User	Remove	A user can delete any review made.
	Rating	Remove	A user can remove own rating.