

Meal - Want a meal

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App summary and feature description:

Many restaurant don't provide an app for the customer's convenient usage. This app is designed for customers of a restaurant to check the menu, make reservations, check restaurant's location and direction, log into account or register a new account.

This app post and fetch data from a database server via php files, so that data are sent and get directly from the server, which makes sense for usage in reality.

The app is embedded in a tab bar controller with four main view controllers.

The "Menu" view displays the dishes with name, price and image. User can browser the dishes the restaurant. For further implementation, an order function can be added so that the user can make an order to the restaurant.

The "Reservation" view utilizes date picker, text fields and buttons for the function of making reservation. No time in the past is allowed for choosing. Guest name, contact phone number are all not allowed to be empty. Number of people is set as "2" by default. Once all parameters are set, hit the "Make a reservation" button and request will be sent to the server. Duplicate requests are not allowed.

In the "Location" view, there is map kit view. The restaurant is added as an annotation. Hit "Direction" button, the app will ask to catch the user's current location and then calculate routes for automobile. Number of routes will be printed on console, while the first route will display on the map view.

In the "Account" view, users can log in or register a new account. For new user, hit "Register" and a register view will show. Once a new account is registered, the user is sent back to the login view. If the user already has an account, press "I have an account, go back to log in". Enter phone and password to log in, once logged in, the current user info will be stored to User Defaults. A greeting, the user's account, and a log out button will show up. Tap "Log out" button, the user will be logged out. And those three label/button will be hidden. There is an info button on the right, hit it once, an instruction text view will show up, hit it again, the text view will disappear.

All requests like getting the direction, making reservations, logging in and registering are sent to a database server. Response and sent back as JSON and then parsed. In order to process the requests, Internet connection is needed, otherwise, an alert will show up. Other possible errors, like empty data for request and error in parsing will also call an alert.

This app is set for iPhone with portrait orientation.