

# Lab – AngularJS

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The goal of this assignment is to give you some experience working with AngularJS to build web applications. You will also gain experience using AJAX, and Web APIs with AngularJS.

## Requirements:

1. You may need to create a simple Restaurant Web API.
  - a. The Web API needs Get and Post methods to allow storing new restaurants in the database, storing reviews for these restaurants, and finding restaurants based on specific search criteria.
  - b. The Web API must perform all database operations.
2. Create an AngularJS Web Application that uses your Restaurant Web API.
  - a. Create a set of simple .html pages for this AngularJS web application.
  - b. Create a page to allow the user add a restaurant to the database. The page must allow the user to enter information about a restaurant, validate the input, and use AngularJS & AJAX to call the Web API to add the restaurant to the database.
    - i. Display a message regarding the result of the operation.
  - c. Create a search page to allow the user to search for restaurants and view information about them. You need to allow the user a few different ways to search for and find restaurants.
    - i. The web application will use AngularJS and AJAX to call your Web API to perform the search in your database and return a list of restaurants. Then, you need to display the list of restaurants in the web page.
    - ii. Allow the user to search for a restaurant by name or the first few letters of a name, and use AngularJS & AJAX to call the Web API to perform the search.
    - iii. Allow the user to search for a restaurant by location and cuisine. For example, the user wants to find all the Italian restaurants in Philadelphia, PA.
    - iv. Allow the user to search for a restaurant by location and ratings. For example, the user wants to find all 5 star restaurants in Philadelphia, PA.
    - v. Display the result of these searches using a dynamic data display and not just simple text. The display must include the restaurant's name, address, phone, quality rating (0 to 5 stars), price rating (0 to \$\$\$\$), an image for the restaurants, and type of cuisine (Seafood, Italian, Indian, Asian, Middle-Eastern, etc...).
  - d. Allow the user to create a review for a restaurant and add it to database. This review should contain ratings for the food quality, price, and a written comment.
  - e. Create a page to allow the user to select a restaurant and delete it from the database.
  - f. Style the page and make it look professional and attractive. Make sure to style the display of the restaurants. You can write the CSS yourself or use Bootstrap or any other CSS framework tool to help in styling the site.

3. Remember to add a section to the labs.html page created in Lab 1 for this lab.
  - a. Include a description of what you learned, what elements you liked/disliked, and a link to the page you created for this Lab.