

Spring #1 Backlog

***Project 2 builds on and adds more sophisticated features to project 1. All requirements for project 1 are included in and hold for project 2 unless they directly contradict with the features requested for project 2.*

1. Web application must be secure and protect confidentiality of a user's ImHungry data

- a. Create a MySQL table with a following structure
 - i. Users -> username, string, password, SHA256 hash data type, id, primary key
- b. Add a sign-in page to the Web Application, SignInView.jsp. SignInView will contain a single text input for the username and a single secure text input for the password. It will redirect to SignInController if both are not empty. SignInView contains a link to sign up if not a user.
- c. SignInController will validate the two to make sure username / password is valid combination in database (username exists, password matches) using DatabaseModel. If validated, redirect to SearchPageView. If not validated, redirect back to SignInView.
- d. On ResultsPageView.jsp, add a sign-out link that redirects to SignInView.jsp.
- e. DatabaseModel will directly access our mysql database and do the following
 - i. Find user by username, validate password, return true or false depending on if valid sign in
 - ii. Check if a user exists in DB by username only
 - iii. Insert new user into database if one does not exist
- f. Add a sign-up page to the web application. SignUpView.jsp. SignUpView will contain 3 text boxes centered on the page. 1. Enter username. 2. Enter password, secure. 3. Enter password again.
- g. Create a SignUpController that will call DatabaseModel to insert the user after validating the parameters are not empty. SignUpView contains a link to SignInView if already a user.

2. Allow for pagination of results returned by the search (Alex)

- a. <https://mdbootstrap.com/docs/jquery/tables/pagination/>
 - i. Above link shows demo of dynamic pagination (works without reloading the page b/c it uses javascript)
 - ii. Note this component uses a framework called Material Bootstrap
- b. For results object taken in from the Servlet

3. User interfaces must look modern and be attractive (Kayla)

- a. Make the background a dark gray and the text a white so it looks like night/dark mode
- b. Comic sans font

- c. Add a table hover so the blocks representing each restaurant/recipe look more clickable and are more interactive
- 4. **Set the radius of the restaurants search** (Cindy- backend, Kayla- frontend, Lazlo-testing)
 - a. Next to the search limit, put a text box for radius. Radius should be number > 0 .
Task A: Modify the JSP SearchPageView to have the text box specified above.
 - b. Link into SearchPageController (Edit SearchPageController to Redirect with the radius from text box, and give default of 1 mile), ResultsPageController (Give ResponseModel checkParameters a radius input), ResponseModel, YelpRequestModel (Give YelpRequestModel a member var private double and checkParameters an additional input double for radius).