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Video Demonstration: http://web.engr.oregonstate.edu/~chrijohn/CS496_Final.mp4

(Note: the video above is demonstrating the application ran on my local machine to demonstrate the geolocation actually works since the phone emulator is set to the same location in Washington. Just to cover all my bases, I made this short clip showing it does also run on the phone emulator

http://web.engr.oregonstate.edu/~chrijohn/CS496_2.mp4)

Final Project

API

The API contains access two entities (user accounts and restaurant reviews), which are stored in Azure Tables. User Accounts contains username and password. Restaurant reviews contains the user who created it, restaurant name, address and rating (1-5).

Below are the list of the URLs:

User Accounts:

To view all accounts (GET): <http://resturantreviewsapi20160522100911.azurewebsites.net/api/Accounts>

To view a specific account (GET):

<http://resturantreviewsapi20160522100911.azurewebsites.net/api/Accounts/{username}>

To add an account (POST): <http://resturantreviewsapi20160522100911.azurewebsites.net/api/Accounts>

To edit (or add if not already in db) an account(PUT):

<http://resturantreviewsapi20160522100911.azurewebsites.net/api/Accounts>

To delete specific user account (DELETE):

<http://resturantreviewsapi20160522100911.azurewebsites.net/api/Accounts/{username}>

Restaurant Reviews:

To view all reviews(GET):

<http://resturantreviewsapi20160522100911.azurewebsites.net/api/resturantReviews>

To view all reviews from a specific user (GET):

<http://resturantreviewsapi20160522100911.azurewebsites.net/api/resturantReviews/{username}>

To view a specific review (GET):

<http://resturantreviewsapi20160522100911.azurewebsites.net/api/resturantReviews?username={username}&restName={restName}>

To add a review (POST):

<http://resturantreviewsapi20160522100911.azurewebsites.net/api/resturantReviews>

To edit (or add if not already in db) a review (PUT):

<http://resturantreviewsapi20160522100911.azurewebsites.net/api/resturantReviews>

To delete a review (DELETE):

<http://restaurantreviewsapi20160522100911.azurewebsites.net/api/restaurantReviews>

Account System

I created the account system by hand. The username and password are stored in an Azure Table and accessed via the API (as discussed above). I did not add any security features so displaying the username and password without any encryption on a public API would obviously be horrible from a security perspective. Encrypting the username and passwords would not be impossible, however and would make it passable on the security front.

The Log-in screen is the only screen that is possible to access until a correct username and password are entered. Once the username and password are entered, the username is saved in session storage so it can be accessed by other pages to enter and retrieve that user's reviews. The password is not stored in storage. The username is removed from session storage when the user logs out or closes the application.