Christopher Jackson SWDV691 Week 2 Design: Service Layer(s)

Endpoint Design: RESTful principles. For this application I will be using a RESTful API design because of the main verbs needed to communicate data: GET, POST, PUT, and DELTE.

Service Endpoints:

User

POST (/user): Add a new user.

Parameters:

- Username * required
- FirstName * required
- LastName * required
- EmailAddress * required
- o Phone
- Location

i.e., Tyler goes to the website to create an account.

```
Request:
           "username": "tylerscott",
           "firstName": "Tyler",
           "lastName": "Scott",
           "emailAddress": "thomasanderson@fakenews.com"
Response: 405 – username already taken
           "userId": 9222968140497396000,
           "username": "tylerscott",
           "firstName": "Tyler",
           "lastName": "Scott",
           "emailAddress": "thomasanderson@fakenews.com"
      }
Request:
           "username": "",
           "firstName": "Tyler",
           "lastName": "Scott",
           "emailAddress": "thomasanderson@fakenews.com"
Response: 405 – username missing
            "userId": 9222968140497396000,
           "username": "tylerscott",
           "firstName": "Tyler",
           "lastName": "Scott",
            "emailAddress": "thomasanderson@fakenews.com"
     }
```

PUT (/user): Update an existing user.

Parameters:

- Username
- o FirstName
- LastName

- EmailAddress o Phone Location i.e., Tyler goes to the website to update the email address on his account. Request: { "username": "tylerscott", "emailAddress": "thomasscott@fakenews.com" Response: 200 - ok { "userld": 9222968140497396000, "username": "tylerscott", "firstName": "Tyler", "lastName": "Scott", "emailAddress ": " thomasscott@fakenews.com " } Request: "username": "tylerscott123456789", "emailAddress": "thomasscott@fakenews.com" Response: 400 – invalid username supplied "errorMessage": "Invalid username supplied"

Request:

```
Request:
             "username": "tyl",
             "emailAddress": "thomasscott@fakenews.com"
 Response: 400 – username input validation
             "errorMessage": "Username not enough characters"
GET (/user/{userId}): Find user by ID.
 Parameters:
    UserId * required
 i.e., Tyler goes to the website but does not remember his username.
 Request:
       {
             "userId": "9222968140497396000",
 Response: 200 - ok
             "userld": 9222968140497396000,
             "username": "tylerscott",
             "firstName": "Tyler",
             "lastName": "Scott",
             "emailAddress": "thomasscott@fakenews.com"
       }
 Request:
             "userId": "92226000",
 Response: 400 – Invalid ID supplied
             "errorMessage": "Invalid ID supplied",
```

```
Request:
              "userId": "9222968140497396000",
   Response: 404 – Username not found
              "errorMessage": "Username not found"

    POST (/user/{userId}): Update an existing user with form data.

   Parameters:
      UserId * required
  i.e., Tyler goes to the website to update the email address on his account.
   Request:
         {
               "userId": 9222968140497396000,
              "emailAddress": "thomasscott@fakenews.com"
  Response: 200 - ok
              "userld": 9222968140497396000,
              "username": "tylerscott",
              "firstName": "Tyler",
              "lastName": "Scott",
              "emailAddress": "thomasscott@fakenews.com"
         }
  Request:
              "userId": 90,
              "emailAddress": "thomasscott@fakenews.com"
  Response: 400 – invalid input
              "errorMessage": "Invalid username supplied"
```

• DELETE (/user/{userId}): Deletes a user.

```
Parameters:
  UserId * required
i.e., Tyler goes to the website to delete his account.
Request:
     {
           "userId": 9222968140497396000,
           "emailAddress": "thomasscott@fakenews.com"
Response: 200 - ok
           "userId":,
           "username": ""
           "firstName": "",
           "lastName": "",
            "emailAddress": ""
      }
Request:
           "userId": 90,
           "emailAddress": "thomasscott@fakenews.com"
Response: 400 – invalid input
           "errorMessage": "Invalid username supplied"
Request:
            "userId": 909222968140497396000
           "emailAddress": "thomasscott@fakenews.com"
Response: 400 – account not found
           "errorMessage": "Account not found"
      }
```

Post

POST (/post): Add a new post.

Similar to user but replace with post.

Parameters:

- UserId * required
- Likes
- Comments
- Saves
- o TravelExpenses
- LodgingExpenses
- Rating
- o Review

PUT (/post): Update an existing post.

Similar to user but replace with post.

Parameters:

- UserId * required
- Likes
- Comments
- Saves
- o TravelExpenses
- LodgingExpenses
- Rating
- o Review

GET (/post/{postId}): Find post by ID.

Similar to user but replace with post.

Parameters:

- PostId * required
- UserId
- Likes
- Comments
- Saves
- o TravelExpenses
- LodgingExpenses
- Rating

o Review

POST (/post/{postId}): Update an existing post with form data.

Similar to user but replace with post.

Parameters:

- PostId * required
- UserId
- Likes
- Comments
- Saves
- TravelExpenses
- LodgingExpenses
- Rating
- o Review

DELETE (/post/{postId}): Deletes a post.

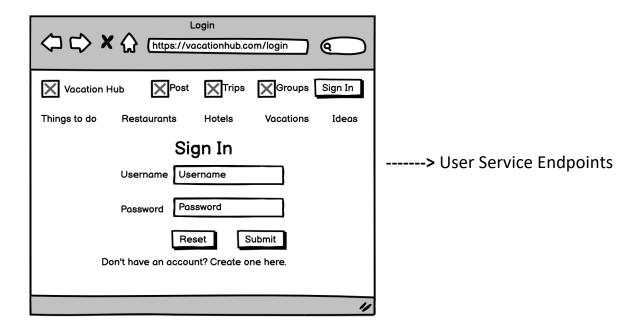
Similar to user but replace with post.

Parameters:

- PostId * required
- UserId
- Likes
- Comments
- Saves
- o TravelExpenses
- LodgingExpenses
- Rating
- o Review

Diagrams:

Create a User



Create a Post

