**Unit 14 Homework: SequelInReverse**

**What It Is**: This is an application that allows users to create an account with a password, and then sign in and log out of their account.

**How It’s Used:** When they user reaches the main page, if they already have an account they will be directed to the login page (/public/js/login.js). If they do not already have an account, they will be directed to a sign up page (/public/js.signup.js).

**Resources:**

* Node.js – used for the server side platform and to install packages
* Passport - used to require the password authentication and login for users. Located in file /config/passport.js
* Sequelize - connects our node folders to MySQL. Located in file /models/index.js.
* Express - provides us with the connection to the database, located in file /server.js

**/config/middleware** – blocks users who aren’t logged in from accessing the site.

**/models/index.js** – connects to the database and imports login data for users

**/models/user.js** – enables password hashing with bcrypt. This helps to make the database more secure.

**/routes/api-routes.js** – includes the routes for logging in, logging out, and displaying data on the client side.

**/routes/html-routes.js** – checks if a user is already logged in or not, and if not brings them to the login or sign up page.

**/package.json** – contains all installed package information as well as the node modules used within the application.

**/server.js** – identifies the required packages, sets up the port and connectivity, creates the express app, uses sessions to keep track of users logins, requires the routes, and synchs the database.

**Ideas for Further Development**:

* To further enhance this application, we can develop a “Forgot Password” feature that would allow a user to reset their password if they need to, which would in turn update the database
* An additional enhancement would be adding a second layer of security by adding account “secret” questions that a user could answer. For example, they could set the answer to “What City Were You Born In?” and then be prompted to answer that question at login.