

User Requirements Specification (URS)

for

Weather Web Application

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Functions:

1. **Login:** This function will take in user credentials and verify them in a database
 - a. Input: Username, password
 - b. Output: Successful login, failure to login
2. **Logout:** This function will allow users to log out.
 - a. Input: Click
 - b. Output:
3. **Search:** This function will allow users to look up weather in locations specified in a search field. This field will operate on zip code or address.
 - a. Input: zip code, city and state (Depending on the user)
 - b. Output: Weather for
4. **Create User:** This function will allow users to be created and stored in the database
 - a. Input: Username (email), password, password verification
 - b. Output: Email verification
5. **Verify Password:** This function will check passwords against themselves and make sure they meet the criteria for the passwords.
 - a. Input: Password, password verification
 - b. Output: Pass, fail
6. **Change Password:** This function allows users to change their password using their email.
 - a. Input: Username, email
 - b. Output: Email with generated password
7. **Add Location:** Allows users to add locations to their profile.
 - a. Input: Username, location
 - b. Output: Success, failure
8. **Hourly Forecast:** Pulls relevant information from database to display for user for hourly forecast
 - a. Input: Location
 - b. Output: Humidity, temperature (high/low/current), weather description, precipitation, wind, wind direction
9. **Weekly Forecast:** Pulls relevant information from database to display for user
 - a. Input: Location
 - b. Output: Humidity, temperature (high/low/current), weather description, precipitation, wind, wind direction