**Find Your Home - Product Backlog - Team 12**

# Team Members: Jack Krueckeberg, McKenzie Patterson, James Goldberg, Jason Bodzy, Quinn Bello, and Nick Adair

# Problem Statement:

The current issue with finding a city to live in is accounting for all the differences of each city. There are many sources of information; however, they are spread out across the web and not easily agglomerated by users.

# Background Information:

# 

# User Authentication System:

**Functional:**

1. **User Story:**  As a user, I want to be able to register an account in order to save my preferences for the future.
   1. **Tasks:**
      1. Design a password restoration page
      2. Implement a registration form that takes a username, email, password, etc
      3. Implement a way to validate the username/password
      4. Store user details in a database
2. **User Story:** As a user, I want to be able to sign in so that I can access my previously saved preferences.
   1. **Tasks:**
      1. Design the Login page
      2. Implement a login method form to take email/username and password
      3. Check for user authentication
      4. Provide incorrect login feedback/limit the amount of login attempts
3. **User Story:** As a user, I want to be able to ensure that I have signed out and know my account is secure.
   1. **Tasks:**
      1. Implement a signout button to return to the login page
      2. Clear user's preferences and data when signed out

**Non-Functional:**

# Browse City Preferences:

**Functional:**

1. **User Story:**  As a user, I want to select city preferences so that I can find cities that match my desires.
   1. **Tasks:**
      1. Design a list view of the available preferences to choose from/filter through
      2. Implement a system that weighs the importance of each specific preference
      3. Implement a system that ranks the cities in the database by the selected user preferences
2. **User Story:** As a user, I want to view city data such as diversity, cost of living, job opportunities, etc., in order to make informed decisions.
   1. **Tasks:**
      1. Design a page that displays detailed information for each city
      2. Collate and display the various data points about the city in an easy-to-read format
3. **User Story:** As a user, I want to be able to add cities that I like to a favorites list to later revisit.
   1. **Tasks:**
      1. Implement an “Add to Favorites” button within the city information page
      2. Store what cities the specific user favorited on their profile
      3. Display the list of favorited cities under the user’s profile
4. **User Story:** As a user, I want to be able to view pictures and maps of the cities to help visualize the type of environment I would be living in.
   1. **Tasks:**
      1. Integrate an image gallery view within the city information pages
      2. Integrate an API to display an interactive map of the city within the city information pages

**Non-Functional:**

# Backend Development:

**Functional:**

1. **User Story:** As a developer, I need a backend server to store the city information, user profiles, and preferences.
   1. **Tasks:**
      1. Setup a server using either ASP.NET or NodeJS
      2. Design and implement a relational database
      3. Create APIs to fetch and store the required data

**Non-Functional:**

# User Interface:

**Functional:**

1. **User Story:** As a user, I want an easy-to-use and visually appealing user interface so that I can navigate that application easily and without confusion.
   1. **Tasks:**
      1. Design a consistent and intuitive user interface
      2. Implement responsive designs that will adjust for use on different devices
      3. Test UI with potential users to gather feedback on responsiveness and overall design

**Non-Functional:**