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| **Requirement #** | **User Stories** | **Test Data** | **Expected**  **Output** | **Actual**  **Output** |
| 1 (DB) - User Info | New Hiker | -add new user into DB | User ID:  246810  User phone-  7078155460  User email-  [testemail@gmail.com](mailto:testemail@gmail.com)  User password-  Testpassword3 | 1 row created.  \*Num rows will increase by 1.  \*attributes will be  (user\_id, ‘7078155460’, [testeamil@gmail.com](mailto:testeamil@gmail.com), \*\*\*\*\*\*\*\*\*\*\*\*\*). |
| 1 (DB) -  User Info | Returning hiker info | -pull user data to confirm log info  Return selected users ID. | User input:  246810  Email-  [testemail@gmail.com](mailto:testemail@gmail.com)  User password-  \*\*\*\*\*\*\*\*\*\*\*\*\*  (Testpassword3) | 1 row selected.  Return:  246810 |
| 1 (DB) -  Trail Info | All trail names by region | -pull all trail data from DB ‘grouped by’ region | Select trail\_name, region\_name  From Trail t, Region r  Where t.TRegion = t.trail\_id and r.TRegion = r.region\_id | \*\*\* still filling database will more trails  Regions will be:  'Prairie Creek Redwood State Park', 'Patrick's Point State Park', 'McKinleyville', 'King Range National Conservation Area', 'Eureka', 'Headwaters Preserve', 'Redwood National Park', 'Arcata', 'Blue Lake', 'Six Rivers National Forest' |
| 1 (DB) -  User Info | Delete user’s account | -delete the user data and trail suggestions | Delete data with user email:  testemail@gmail.com | 1 row deleted.  \*Num rows in Users will decrease by 1  \*user will not be able to be found in any of the rows of the database |
| 2 – expert system | An unexperienced hiker would like to go to hiking with her dog for an hour. | experience(novice).  petAdventure(1).  timeOutside(1). | list of trails that:  1. allows dogs  2. is less than 3 miles  3. has a trail difficulty of ‘beginner’ |  |
| 2 – expert system | A moderately experienced hiker wants to go to the beach to hike for 3 hours. | experience(moderate).  timeOutside(3).  location(beach).  activity(hiking). | list of trails that:  1.is between 3 and 4 miles  2. has a trail difficulty of ‘easy’ or ‘moderate’  3. is located in a beach location |  |
| 2 – expert system | An experienced hiker wants to go on a 5-hour hike in the forest with a nice place to have a picnic. | experience(expert).  timeOutside(5).  activity(picnic).  activity(hiking). | list of trails that:  1.is longer than 6 miles  2. has a trail difficulty of ‘moderate’ or ‘experienced’  3. has picnicking as an activity |  |
| 2 – expert system | A novice hiker wants to go hiking on a rainy day in November. | temperature(45).  forecast(rain).  activity(hiking).  experience(novice). | Suggest the user stay inside today because it is raining, the temp is less than 50, and they are novice. |  |
| 2 – expert system | An experienced hiker wants to go hiking on a rainy day in October with their dog for 2 hours. | petAdventure(1).  activity(hiking).  experience(expert).  temperature(49).  forecast(rain). | list of trails that:  1.is between 2 and 4 miles  2.has a trail difficulty of ‘moderate’ or ‘experienced’ |  |