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| **Requirement #** | **User Stories** | **Test Data** | **Expected**  **Output** | **Actual**  **Output** |
| 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’ |  |
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