

Trip Recommender System

Applied AI – Project 1

Codename: ezio_auditore

Abstract

Trip recommender is an expert system built on Java Expert System Shell (JESS) that provides recommendation on various places to visit in and around Karnataka, India based on user inputs such the number of travel days, distance, type of place, number of attractions, etc.

Features

The system takes in the following parameters to recommend a suitable place:

- Number of trip days (one day trip, etc.)
- Type of place you would like to visit (trekking, religious, etc.)
- Distance you wish to travel (in kms)
- Number of attractions you would visit at the place

Rules and description

Rule	What it does
List-places	Lists all the places that matches with the user inputs
No-places-found	Displays appropriate message when there are no matching places
Exit-recommender	Exits the system with a message
Ask-question-by-id	Gets inputs from users
Welcome-user	Prints the welcome message
Input-number-of-days	Requests user for number of days input
Input-place-type	Requests user for the type of place
Input-place-distance	Requests the user to input the distance of the trip
Input-number-of-attractions	Requests user to input the number of attractions
Info-data (facts)	Set of rules to get inputs from the user
Places-data	Set of rules of different place with combinations of all inputs

Usage Instructions

Running on eclipse

- Add the ezio_auditore.clp file to the src folder of the jess enabled eclipse project **or** copy the contents of the file to a .clp file in the eclipse project and run the file.

Running on Jess

- Place ezio_auditore_project1.clp file in the bin folder of jess.
- Run the command **jess ezio_auditore.clp**

Sample inputs and outputs

```
*****
-----TRIP RECOMMENDATION SYSTEM-----
*****

Welcome to the Trip Recommendation System.
Please give us some data.
We'll recommend a few places which you can visit in and around Karnataka, India.

*****
*****

Please select the maximum trip duration(in days) - (eg: 2):
    1. 1
    2. 2
    3. 5
    4. 7
    1

Please select the trip type - (eg: Trekking):
    1. Trekking
    2. Scenic
    3. Religious
    Trekking
```

Please select the maximum distance you wish to travel(in kms) - (eg: 300):

1. 100

2. 300|

3. 500

4. 750

100

Specify the maximum number of attractions you wish to visit - (eg: 5):

1. 3

2. 5

3. 10

4. 20

3

Place Name: Makalidurga

Number of days: 1

Place Category: Trekking

Max Distance: 100

Number of attractions: 3

Place Name: Savandurga

Number of days: 1

Place Category: Trekking

Max Distance: 100

Number of attractions: 3

Please select the maximum trip duration(in days) - (eg: 2):

1. 1
2. 2
3. 5
4. 7

2

Please select the trip type - (eg: Trekking):

1. Trekking
2. Scenic
3. Religious

Scenic

Please select the maximum distance you wish to travel(in kms) - (eg: 300):

1. 100
2. 300
3. 500
4. 750

300

Specify the maximum number of attractions you wish to visit - (eg: 5):

1. 3
2. 5
3. 10
4. 20

5

Place Name: Gandikota

Number of days: 2

Place Category: Scenic

Max Distance: 300

Number of attractions: 5

Please select the maximum trip duration(in days) - (eg: 2):

- 1. 1
- 2. 2
- 3. 5
- 4. 7
- 5

Please select the trip type - (eg: Trekking):

- 1. Trekking
- 2. Scenic
- 3. Religious
- Religious

Please select the maximum distance you wish to travel(in kms) - (eg: 300):

- 1. 100
- 2. 300
- 3. 500
- 4. 750
- 100

Specify the maximum number of attractions you wish to visit - (eg: 5):

- 1. 3
- 2. 5
- 3. 10
- 4. 20
- 20

Sorry. We dont have any places based on the inputs entered by you.
Please try again with different inputs.

Thank you for using our recommender system.