

AICVS Guidancescape

Travel Management System using Java Programming

Maithili Karlekar

Mentor- Vaishnavi Madhekar

29th May, 2021



Introduction

Nowadays there are lots of options available to choose from where to travel, which travel agency is better etc. So before finalizing the travel agency we need to consider some parameters to help the user to figure out the best travel agencies satisfying the user's requirements. In my project 'Travel management system using Java programming' I have used basic Java programming to filter out the travel agencies available. The simple user friendly interface will show the filters available and according to that it will display the details of the corresponding travel agencies.

Motivation

For our semester 2 of the second year, we were learning about Java programming for the subject 'object oriented programming'. That was very interesting. I always wanted to work on an application based Java program so I decided to choose that as my project.

I chose a travel management system for my project as it had many parameters like price, locations, ratings etc. So I can go on modifying the project and make additions to that as I'll go on learning more about Java.

Objectives

1. Create an user interface to search the desired information about travel agencies from the dataset available.
2. Filter out agencies as per your requirement.
3. Use different methods, classes of Java.



Approach

I created two separate classes for properties of travel agencies and for user interface.

1. Class AgencyProp

In this class I declared the properties of the travel agencies like ratings, locations etc. Created getters and setters for them. Also I added methods for filtering the data according to the location, price, ratings.

2. Class User

Here I entered the dataset for the travel agencies manually. And created a menu of filters available for searching the travel agency as the main method of the program.

Experiments and results

1. I tried to make a separate class for the dataset of the travel agencies but it was becoming tedious to pass the whole dataset into the methods so I added the dataset into the same class of the User.
2. I have used static methods for the filters as we are not creating any separate objects of the class AgencyProp class.
3. I am also working on the GUI approach of the same project. I have created the basic JFrame for the interface, soon will be adding the other attributes.



Conclusion

1. Using Java as a programming language it is easier to create a user interface.
2. Java allows you to use many in-built classes which makes the coding part easier.
3. This project helps us to computerize the different filters that can be applied to sort out the travel agencies as per the requirements.
4. With some more additions in the project we can use this for the actual dataset of travel companies.

References

1. Book- Head First Java by Sierra and Bates
2. <https://www.codewithc.com/travel-management-system-project-java/>

