CSE300 Software Engineering
Project Report

Travoyager
A Travel Recommendation System

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Team Details

- **Team Number:** 7
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Abstract

Introduction

Hodophiles are the people who love to travel to new places, get to know different people and live everlasting experiences. These people often travel to random different places as their hobby or their routine. Most of the people in our country love to travel to multiple places at a time either for rest and relaxation purposes or tourist places.

Motivation

While people love travelling, planning for a trip can be a tedious task and one has to plan for the destination, mode of travel, hotel accommodation, what places to visit, how many days to spend etc. all in a decided budget. People may require to flip through numerous pages of brochures of travel agencies looking for the perfect plan for their trip. Many times the travel agencies packages seem costly to many people due to which they change their plans of travelling and decide to go on their own. Sometimes travelling on one's own self can be a difficult task for finding hotels, restaurants, places to visit etc. We aim to create our own one-stop solution to all the travel arrangement problems.

Plan

Travoyager is a software where users can plan their trip according to their budget, number of people and generate an itinerary based on the age range of the people in the group. Using this itinerary one can get recommendations of hotels to stay in, restaurants to dine in, tourist spots to visit, route and medium of transportation etc; all at their favourable budget range.

Features

- Choice of some predefined travel plans for well-known destinations.
- Recommendations for choosing their travel preferences.
- Selection of dates, place, stay, transport, budget and other information to develop an itinerary.
- Customisable itinerary based on needs and preferences.

Model Selection

Introduction

The word Model comes from the Latin word namely *Modulus* meaning a measure, rule or pattern to be followed. Preparing a process model for a project is one of the fundamental steps in software engineering. A process model is used to represent the flow of the activities in which the development of the software will take place.

Model chosen

- Scrum Model

The reason to choose this model

- This model is very quick and efficient in terms of smooth and speedy delivery of the project.
- It is very flexible and adaptive as per the developer needs and thus properly satisfying the requirements of an uncertain environment.
- It is very helpful when there is a need for addition of new functionality within the current interface.
- It focuses on providing clear vision to the teams through the idea of scrum meetings.
- It works on the idea of adopting feedback from the project related customers and its stakeholders, thereby reducing the risk of project failure.
- Through daily scrum meetings, the contribution of every member can be noted in an effective manner.
- It helps in dividing the work into small and easy sprints which can be managed effectively by developers.

The reason not to choose other models

- **Waterfall model**
    - This model is mainly based on sequential project development ideas.
    - If an error occurs, then it becomes difficult to go back and change it.
    - It needs a lot of time for documentation for the developers.
    - It provides a high amount of risk and uncertainty to the developers and it is not suitable for complex models.

- **V model**
    - It is not flexible and a rigid solution to implement as a model
    - It is not suitable for projects which have high chances of changing.
    - If there is a change midway, then the whole process needs to be done again.

- **Spiral model**
    - It is the most complex process model and needs a great amount of management skills of the developer to work with it.
    - It can turn out to be an expensive one for projects which have small or low risks.
    - It needs an excessive amount of documentation as it has a number of intermediate stages.
    - There are chances of it leading to an indefinite spiral.

- **Incremental model**
    - It requires a high budget for developing the project.
    - It focuses on having iterative plan based project development.
    - It is useful for projects which have a complete pre-defined requirements prepared.