**MSE800 Assessment II**

Hengpan He

Wen Liang

Arnold Aristotle Tayag

Project Overview

The Tour Booking Management System will allow users to search, book, and manage tours while providing tour operators with tools to create and manage tour offerings. The system will include various features that enhance user experience and operational efficiency.

Key Features

1. User Registration and Profiles

* Users can create accounts to manage bookings, save favorite tours, and receive personalized recommendations

1. Tour Search and Filter Options

* Users can search for tours based on criteria such as destination, price range, duration, and user ratings

1. Booking Management

* Users can easily book tours, make payments, and receive confirmations.
* Options for group bookings and individual itineraries

1. Tour Operator Dashboard

* A dedicated interface for tour operators to add new tours, manage availability, and view bookings and customer feedback

1. Payment Processing

* Integration with payment gateways to facilitate secure online transactions.

1. Reviews and Ratings

* Users can leave reviews and rate their experiences, helping future customers make informed decisions

1. Customer Support

* Live chat support and a FAQ section to assist users with their queries.

Benefits

* User-Friendly Interface: Intuitive design ensures users can easily navigate the system and find suitable tours
* Streamlined Operations: Helps tour operators manage bookings and customer interactions efficiently
* Cultural Sensitivity: By including tours that focus on local Māori culture and history, the system can respect and promote indigenous perspectives
* Increased Visibility: Operators can showcase their tours to a wider audience, increasing bookings and revenue

Alignment with Assessment Requirements

* Agile Methodology: The project can be developed iteratively & incrementally, with feedback loops from both users and operators to refine features
* Cultural Considerations: Incorporating local cultural elements into tour offerings (e.g., guided cultural experiences) will align with the principles of Te Tiriti o Waitangi, emphasizing partnership and respect for Māori perspectives
* Collaboration: The project will require collaboration among diverse team members, potentially including stakeholders from various cultural backgrounds to ensure inclusivity

Potential Extensions

* Mobile Application: A companion mobile app for users to book and manage tours on the go
* Social Sharing Features: Allow users to share their experiences on social media to promote the tours and attract more customers
* Multilingual Support: The system can support multiple languages, catering to international users
* Calendar Integration: A calendar feature that shows available dates for each tour, allowing users to see availability in real time

This Tour Booking Management System not only meets the requirements of the assessment but also serves as a valuable tool for promoting tourism while respecting and integrating local cultures.

Project Plan

**System Environment**

Backend: Python

Frontend: HTML, CSS, JavaScript (React.js/Vue.js)

Database: SQLite

Hosting: Local server or cloud-based

Tools: Git for version control, Jira for project management

Project Roles

Product Owner / Sponsor: Provides requirements and feedback on the product's functionality.

Agile Facilitator: Oversees project progress, facilitates meetings, and ensures agile practices are followed.

Project Team: Responsible for designing, developing, and testing the system.

Project Roles:

* Product Owner / Business Users / Stakeholders / Sponsor
* Agile Facilitator
* Project Team

Product Backlog

|  |  |  |
| --- | --- | --- |
| Epic / Feature / User Story |  |  |
| User Story 1 | User Management | As a user, I want to register an account to manage my bookings. |
| User Story 2 | User Management | As a user, I want to log in and set my language preference (e.g., Māori). |
| User Story 3 | Tour Management | As an admin, I want to add, update, and delete tour information. |
| User Story 4 | Tour Management | As a user, I want to search and filter tours based on various criteria.  Epic 3: Booking and Payment. |
| User Story 5 | Booking and Payment | As a user, I want to book a tour and make secure payments online. |
| User Story 6 | Booking and Payment | As an admin, I want to view all bookings and manage availability.  Epic 4: Reviews and Support. |
| User Story 7 | Reviews and Support | As a user, I want to leave a review and rate my tour experience. |
| User Story 8 | Reviews and Support | As a user, I want to access customer support through a live chat or FAQ section. |

Sprint Planning

|  |  |  |  |
| --- | --- | --- | --- |
| Sprint | User Story |  |  |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |
| 5 |  |  |  |

Database Tables

1. Users
2. Bookings
3. Payments
4. Reviews
5. Roles
6. The
7. The

Database creation scripts:

create database TourBooking.db;

create table users (

ID int primary key not null,

FNAME char(50) not null,

LNAME char(50) not null,

USERID char(50) not null,

PASSWORD char(50) not null,

ROLE char(10) not null,

ENTERED\_BY char(50) not null,

ENTRY\_DATE text not null

);

insert into users values (1, 'admin', 'admin', 'admin', 'admin@123', 1, 'admin', strftime('%d/%m/%Y', date()));

create table bookings (

ID int primary key not null,

...

ENTERED\_BY char(50) not null,

ENTRY\_DATE text not null

);

create table payments (

ID int primary key not null,

...

ENTERED\_BY char(50) not null,

ENTRY\_DATE text not null

);

create table reviews (

ID int primary key not null,

...

ENTERED\_BY char(50) not null,

ENTRY\_DATE text not null

);

create table roles (

ID int primary key not null,

ROLE\_NAME char(50) not null,

ROLE\_DESC char(50) not null,

ENTERED\_BY char(50) not null,

ENTRY\_DATE text not null

);

insert into roles values (1,'admin', 'admin', 'admin', strftime('%d/%m/%Y', date()));

insert into roles values (2,'user', 'ordinary user', 'admin', strftime('%d/%m/%Y', date()));

insert into roles values (3,'customer', 'customer', 'admin', strftime('%d/%m/%Y', date()));