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UNIVERSITY OF INFORMATION
TECHNOLOGY AND SCIENCES

Dept. of Computer Science and Engineering (CSE)

Software Engineering and System Analysis Lab [CSE 356]

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1.SRS

Software Requirements Specification (SRS)

Travel Management System (TMS)

1. Introduction

1.1 Purpose

This document outlines the software requirements for the Travel Management System (TMS). The TMS aims to automate and streamline the operations of a travel agency, including travel package management, user inquiries, and bookings, to improve efficiency and customer satisfaction¹.

1.2 Document Conventions

- TMS: Travel Management System
- DB: Database
- UI: User Interface

1.3 Intended Audience and Reading Suggestions

This SRS is intended for:

- Developers: To understand the system's requirements
- Project Managers: To plan and allocate resources
- Stakeholders: To comprehend system capabilities and limitations

1.4 Project Scope

The TMS will provide a secure, web-based platform for customers to browse and inquire about travel packages. Administrators will be able to manage users, packages, and respond to inquiries. The system is designed to enhance operational efficiency and improve the overall customer experience¹.

2. Overall Description

2.1 Product Perspective

TMS is a standalone web application that replaces manual travel agency processes. It interacts with external payment gateways for transactions and may integrate with third-party services for additional features¹.

2.2 Product Features

User Features:

- Browse travel packages by category and subcategory
- Submit inquiries about specific packages
- User registration and profile management

Admin Features:

- User management (add, update, delete)
- Category and subcategory management
- Travel package management
- Advertisement management
- Inquiry management and response¹

3. External Interface Requirements

3.1 User Interfaces

- Homepage: Displays featured travel packages and navigation menus
- Package Listing: Shows packages with filtering options
- Inquiry Form: Allows users to submit questions about packages
- Admin Dashboard: Provides access to management features¹

3.2 Software Interfaces / Technology Stack

- **Frontend:** HTML, CSS, JavaScript, Bootstrap (for responsive and user-friendly UI)
- **Database:** MySQL managed via XAMPP, using SQL language for data management
- **Hosting:** InfinityFree (Infinity Web Hosters) for public deployment
- **Payment Gateway:** Integration with external payment processing services (to be specified as needed)

4. System Features

4.1 User Registration and Authentication

Description and Priority:

Allows users to create accounts and securely log in. High priority.

Functional Requirements:

- The system shall provide a registration form
- The system shall validate user input
- The system shall hash passwords before storing

- The system shall authenticate users at login1

4.2 Package Browsing and Inquiry

- Users can browse packages by category/subcategory
- Users can filter and search package
- Users can submit inquiries about specific packages

4.3 Admin Management

- Admins can add, update, or delete users
- Admins can manage categories, subcategories, and packages
- Admins can manage advertisements
- Admins can view and respond to user inquiries

5. Non-Functional Requirements

5.1 Performance Requirements

- The system shall handle up to 10,000 concurrent users
- Page load time shall not exceed 3 seconds under normal load

5.2 Security Requirements

- User passwords must be hashed before storage
- Input validation must be enforced on all forms
- Only authenticated users can access restricted features

5.3 Usability Requirements

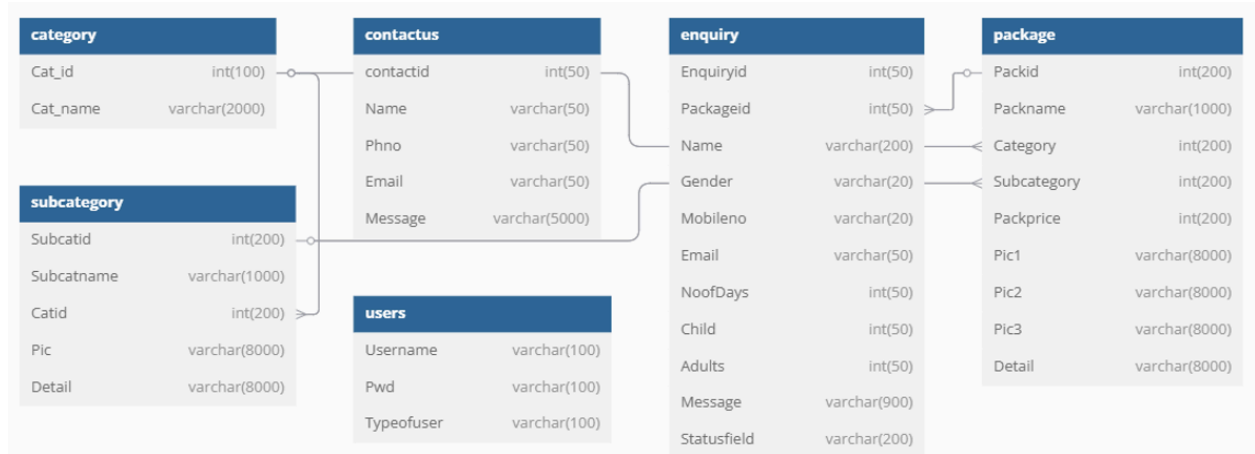
- The UI must be responsive and accessible on both desktop and mobile devices
- Navigation should be intuitive for both users and administrators

5.4 Reliability and Availability

- The system should be available 99% of the time, excluding scheduled maintenance

6. System Design

6. ER Diagram



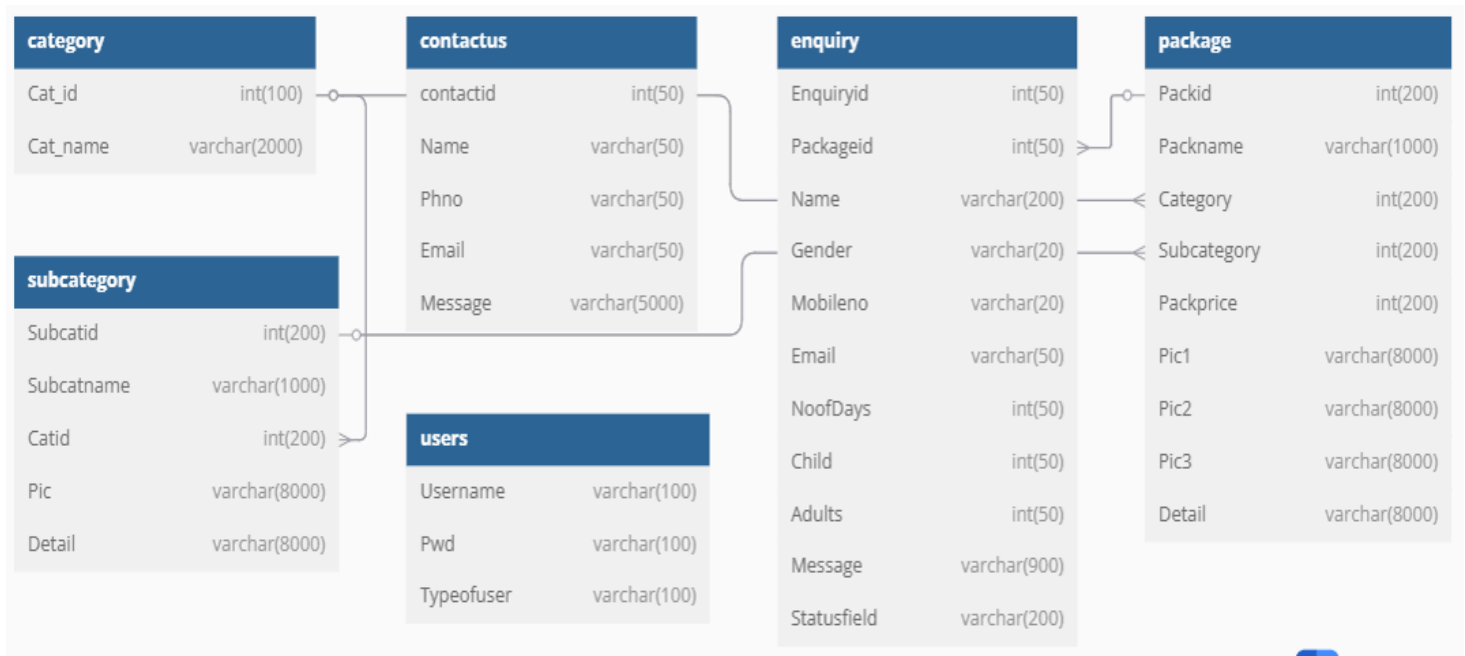
7. Summary Table

Component	Technology Used
Frontend	HTML, CSS, JavaScript, Bootstrap
Database	MySQL (via XAMPP, SQL language)
Hosting	InfinityFree (Infinity Web Hoster)

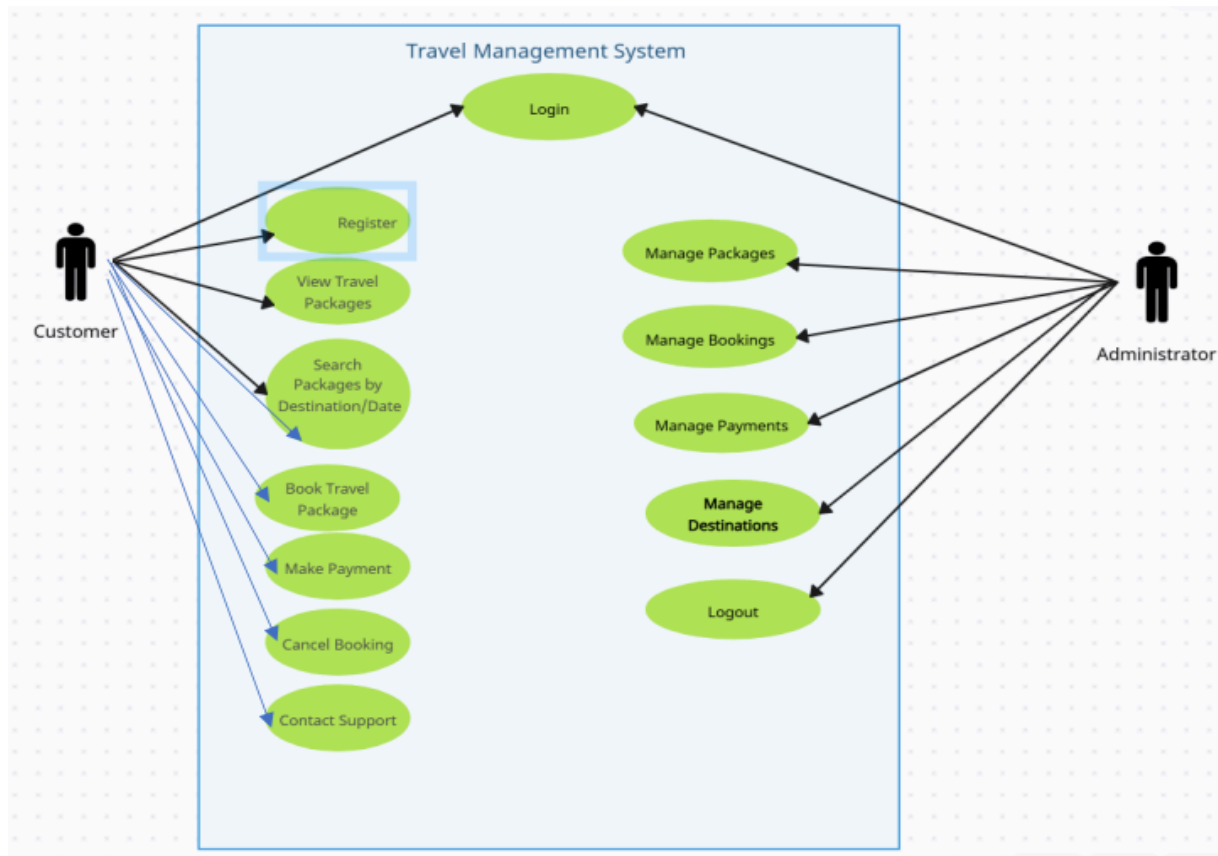
8. Conclusion

This SRS provides a comprehensive blueprint for the development of the Travel Management System. The system is designed to automate travel agency operations, improve customer experience, and provide robust management tools for administrators. By leveraging modern web technologies and secure data management practices, TMS will streamline travel-related processes and support scalability for future growth.

2.ER Diagram



3. USE CASE



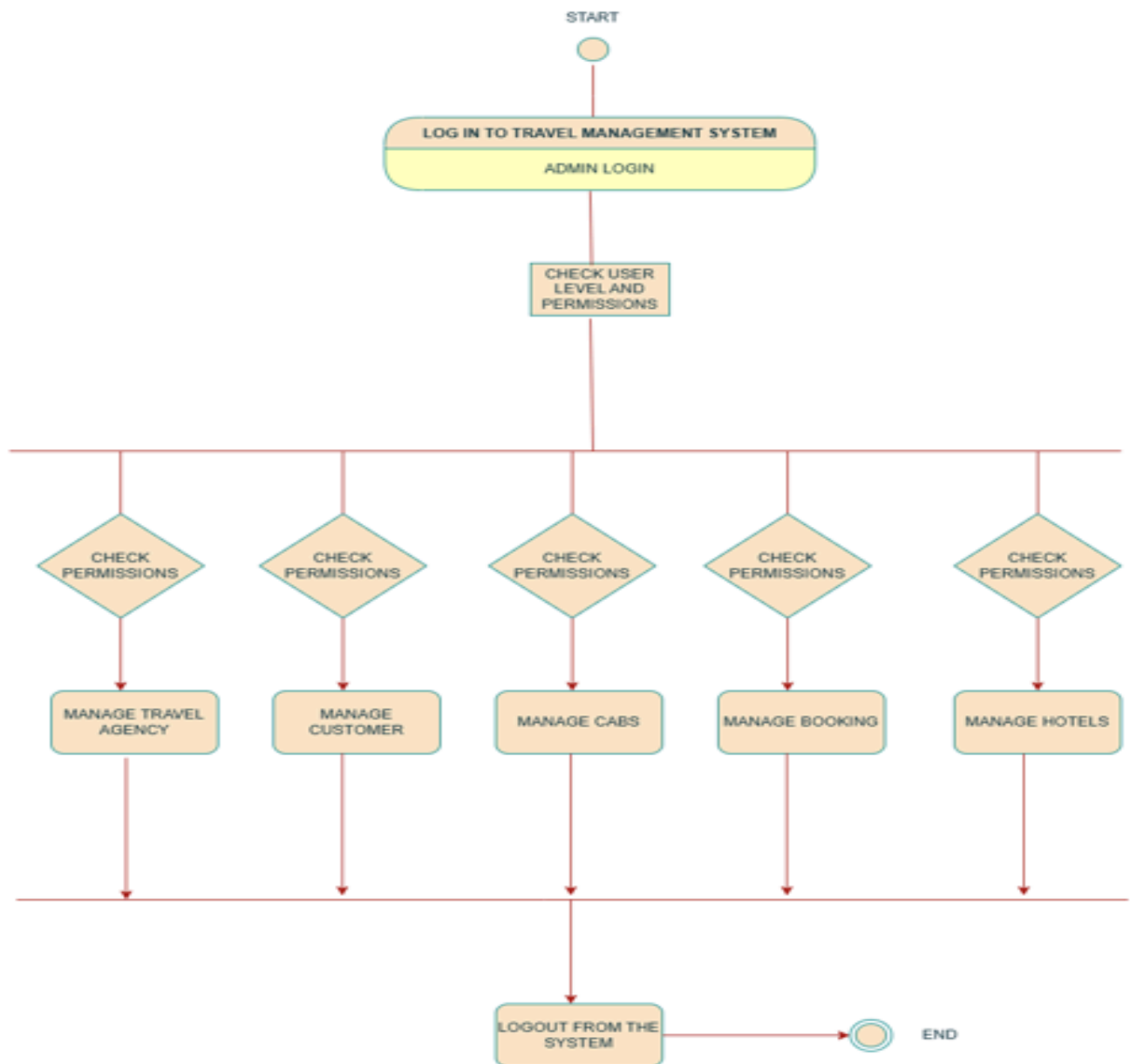
Admin Use Cases:

- Login
- Manage Packages
 - Add Travel Packages
 - Update Travel Packages
 - Delete Travel Packages
- Manage Bookings
 - View Customer Bookings
 - Approve / Reject Bookings
- Manage Payments
 - View Payment Transactions
 - Refund / Cancel Payment
 - Revenue Reports
- Manage Destinations
 - Add/Edit/Delete Destinations
 - Logout

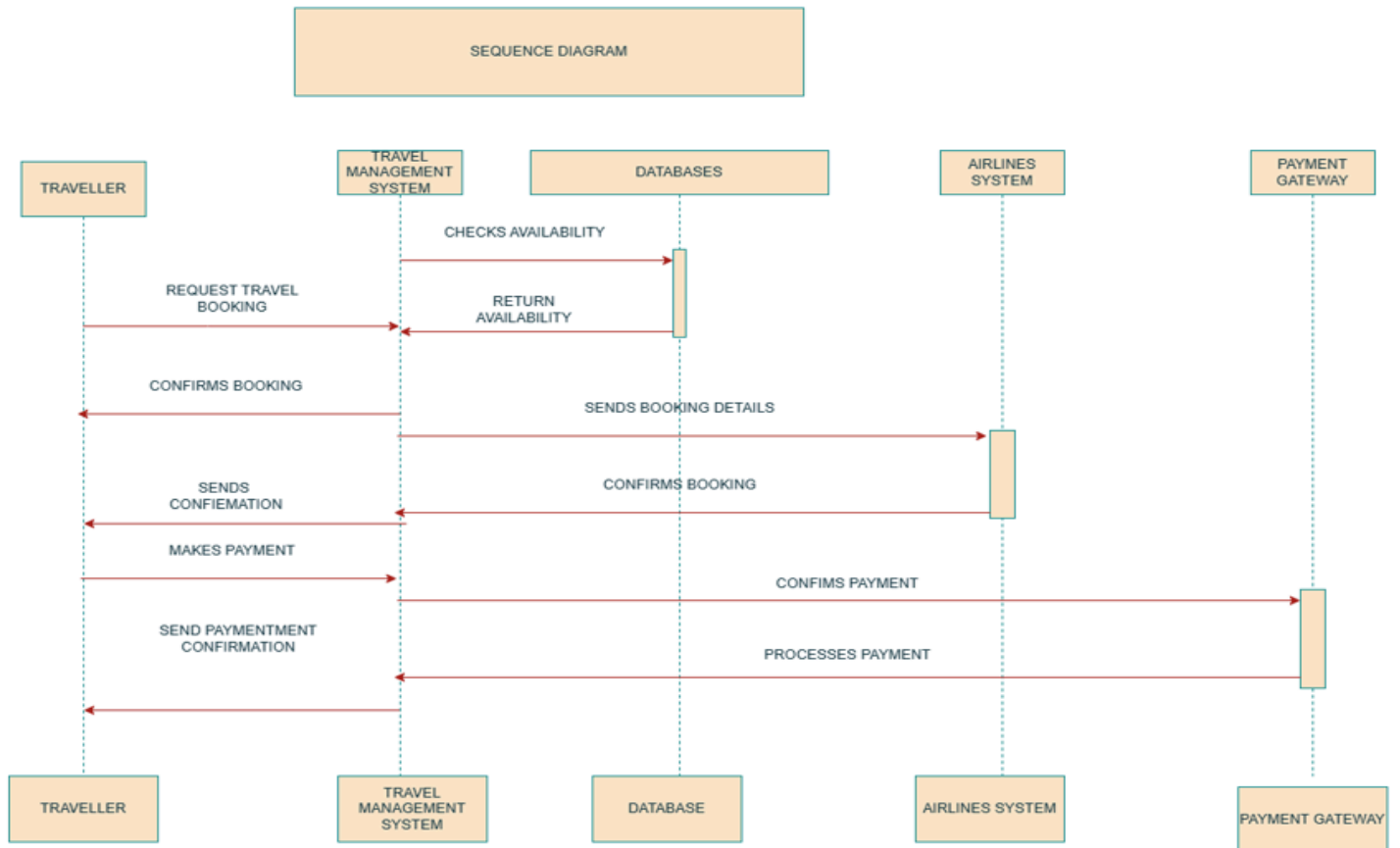
Customer Use Cases:

- Register / Sign Up
- Login
- View Travel Packages
- Search Packages by Destination/Date
- Book Travel Package
- Make Payment
- View Booking History
- Cancel Booking
- Contact Support

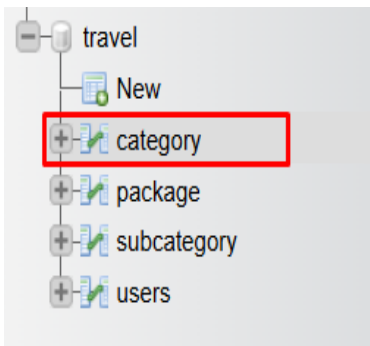
4. Activity Diagram



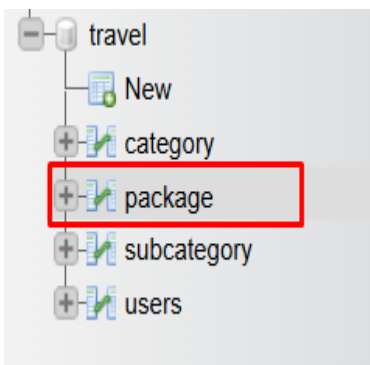
5. Sequence Diagram



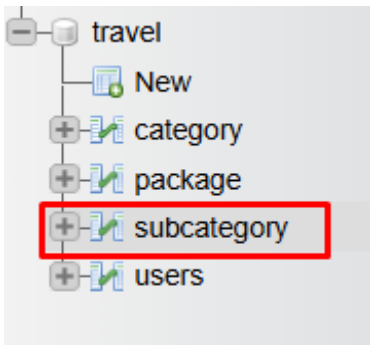
6.Database File



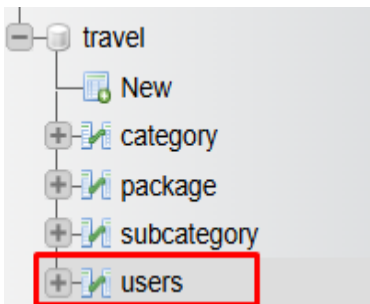
					Cat_id	Cat_name
<input type="checkbox"/>					1	Family Tours
<input type="checkbox"/>					2	Religious Tours
<input type="checkbox"/>					3	Adventure Tours
<input type="checkbox"/>					4	Special Event Tours
<input type="checkbox"/>					5	National Parks
<input type="checkbox"/>					6	Themed Vacations
<input type="checkbox"/>					7	Small Group Tours



					Packid	Packname	Category	Subcategory	Packprice	Pic1	Pic2	Pic3	Detail
<input type="checkbox"/>					1	Christmas Adventure in Lapland	1	1	20000	24.jpg	26.jpg	25.jpg	What better way to celebrate Christmas than to spe...
<input type="checkbox"/>					2	Agra Family Tour	1	2	10000	30.jpg	31.jpg	4.jpg	A fun-filled holiday with your family is the best ...
<input type="checkbox"/>					3	Holidays in Italy	1	5	20000	38.jpg	39.jpg	37.jpg	Enjoy golden beaches, sparkling seas, beautiful co...
<input type="checkbox"/>					4	Main attraction in Thailand	1	4	400000	42.jpg	41.jpg	40.jpg	Fascinating cultures, a nation that adores childre...
<input type="checkbox"/>					5	Holidays in Vancouver	1	3	400000	34.jpg	36.jpg	33.jpg	The lakes and mountains of Jasper, Banff and Yoho...
<input type="checkbox"/>					6	Haridwar	2	6	3000	43.jpg	44.jpg	45.jpg	Haridwar means the 'Gateway to the abode of the go...
<input type="checkbox"/>					7	Tivoli	2	7	500000	48.jpg	47.jpg	46.jpg	Villa d'Este, in the town of Tivoli east of Rome, ...
<input type="checkbox"/>					8	Austria Trip	2	8	300000	50.jpg	49.jpg	51.jpg	Austria is a land of craggy Alps and elaborate bar...



					Subcatid	Subcatname	Catid	Pic	Detail
<input type="checkbox"/>					1	Family holiday in Lapland	1	1.jpg	A brilliant balance of cosy winter cottage accommo...
<input type="checkbox"/>					2	Family holiday to India	1	4.jpg	This relaxing holiday manages all of the organisat...
<input type="checkbox"/>					3	Canada family holiday	1	6.jpg	Our only big Canadian adventure holiday for famili...
<input type="checkbox"/>					4	Family holiday in Thailand	1	131.jpg	This is a real family adventure taking in every fa...
<input type="checkbox"/>					5	Family holiday in Italy	1	8.jpg	World-famous volcanoes, shimmering coastal towns a...

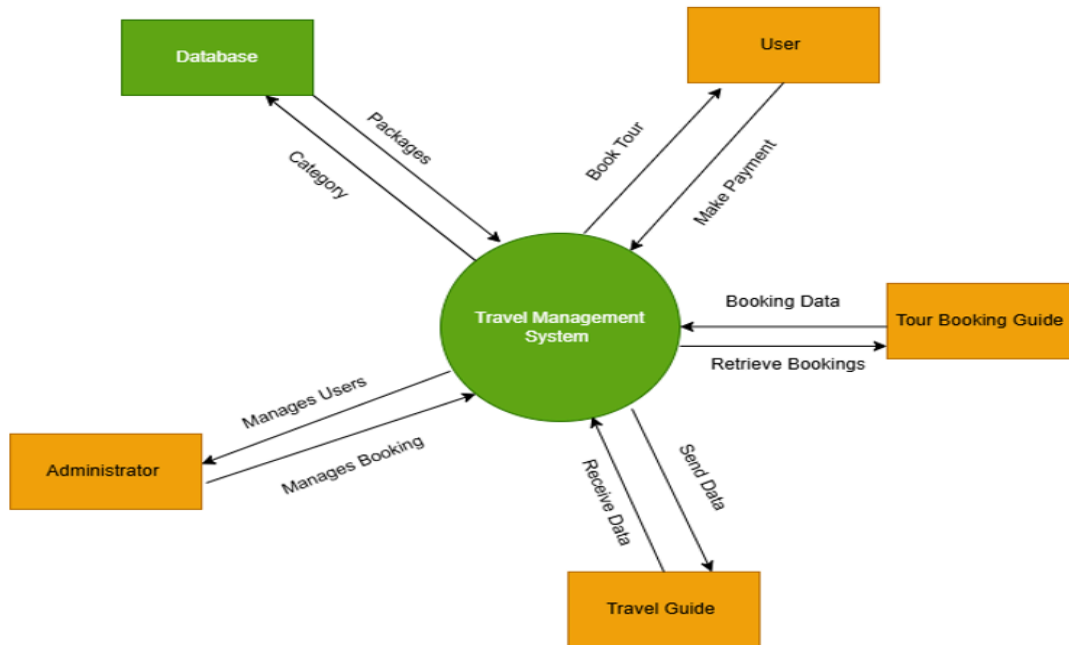


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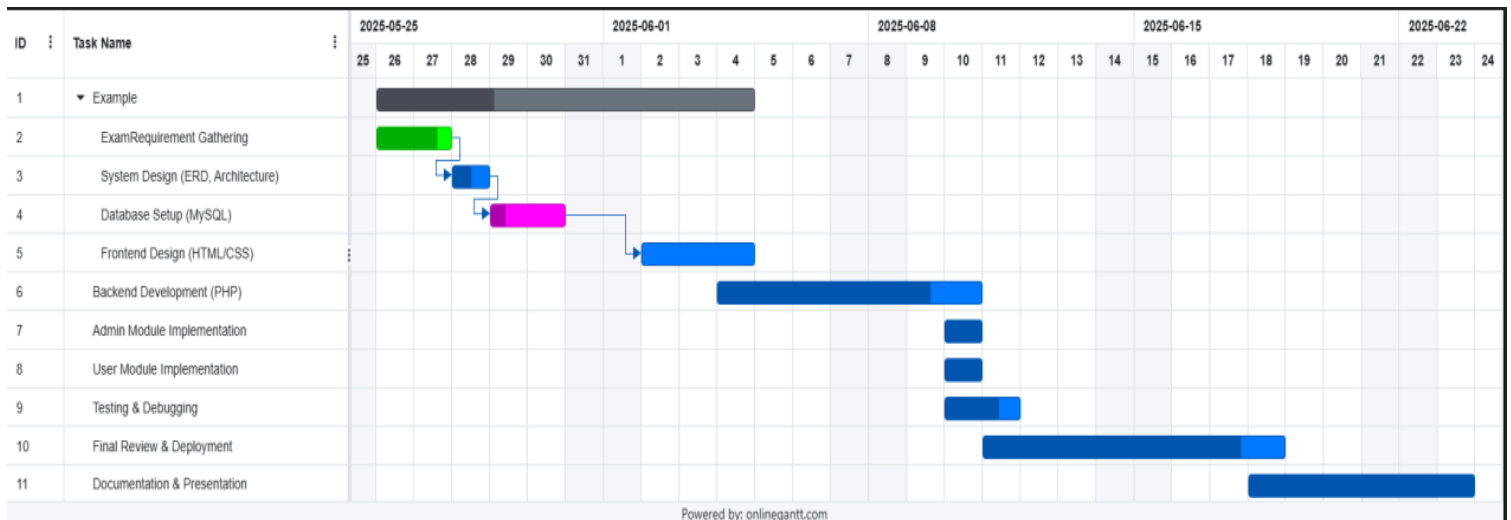
Extra options

Username	Pwd	Typeofuser
mahmud	1234	Admin

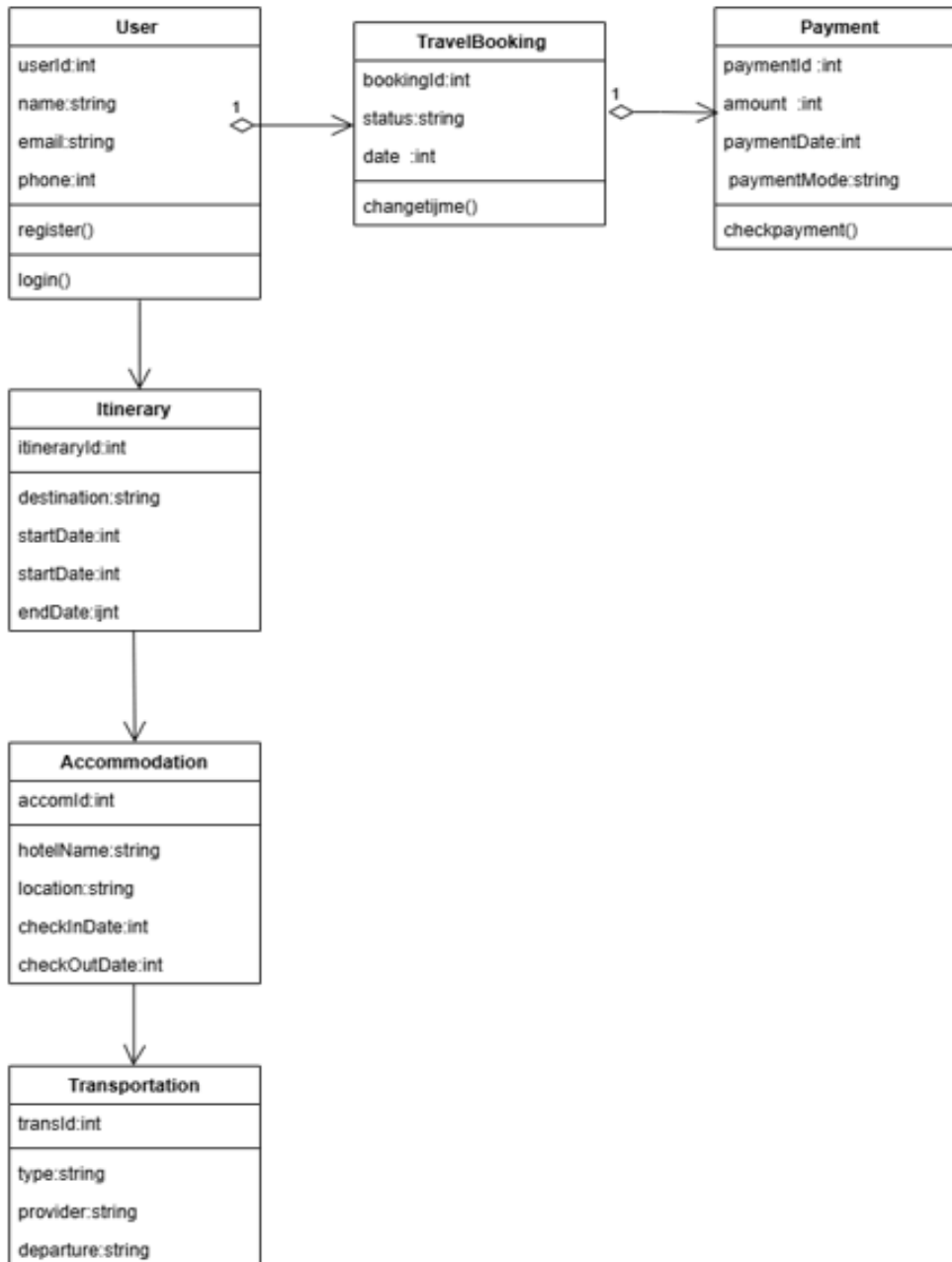
7.Data Flow Diagram



8.Gantt Chart



9. Class Diagram



10. Budget Details

Category	Estimated Cost	Notes
1. Development Costs		
- Frontend Development	6,000	HTML, CSS, JavaScript, responsive UI
- Backend Development	6,000	PHP/MySQL, admin panel, dynamic content
- Database Design	5,000	Schema design, relational mapping
- API Integration (optional)	5,000	Payment, maps, email, etc.
Subtotal (Development) - 22,000		
2. UI/UX Design	4,000	Wireframes, visuals, user flow
3. Graphic Assets	2,000	Logos, banners, category images
4. Testing & QA	4,000	Manual testing, bug fixing
5. Hosting & Domain	3,000	Shared hosting + domain for 1 year
6. Project Management	3,000	Communication, scheduling, coordination
7. Documentation	2,000	Technical + user documentation
8. Contingency (10%)	2,000	Buffer for unexpected expenses
Total Estimated Budget: 42,000		

11. Testing Report