

# Department of Computer Science

## Project Proposal Fall 25-26

Course Title	Web Technology	Section	T	#Group	15
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### Group Member

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### Project Title:

Tourism Management System

### Short Description:

A tourism management system that helps tourists plan and manage trips efficiently. The system allows tourists to explore destinations, view tour packages, and make bookings. Tour managers handle tour packages, hotel details, and booking approvals. The system is designed for a small team project with two user roles.

## Type of user: 1. User1 & 2. User2

### Common Features (Available to All Users)

- **Authentication**
  1. Login to the system
  2. Logout from the system
  3. User registration
- **Account Management**
  1. Change or reset password
  2. Manage profile information (view, edit, delete)
- **Dashboard**
  1. Access a personalized dashboard after login

### Specific Features by User Type

- **Features of User1 - Tourist**
  1. **Travel Analytics Dashboard** - Real-time interactive charts showing spending by country, monthly trends, and trip statistics with cascading updates.
  2. **Smart Budget Tracker** - Dynamic budget management with real-time remaining balance calculation that updates automatically on every booking.
  3. **Travel Achievements & Gamification** - Badge system that unlocks achievements (Explorer, Adventure Seeker, Budget Master, VIP Traveler, Favourite Collector) based on travel milestones.
- **Features of User2 - Tour Manager**
  1. **Revenue Analytics Dashboard** - Tracks total revenue, average booking value, and 30-day revenue trends from all bookings in real-time.
  2. **Booking Status Overview** - Real-time breakdown of bookings by status (active, cancelled, completed) with recent bookings table showing all details.
  3. **Tourist Growth & Insights** - Monitors tourist demographics including total registrations, new sign-ups in 30 days, and geographic distribution by country.

**N.B: Each user type must have at least 3 distinct features different from the others. Additional features may be added if desired.**