

**PROJECT PROPOSAL**

**ON**

**Travel and tour SUBMITTED TO**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



# Submitted To: Submitted By:

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**Annexure I (For Project Proposal for FSE)**

### **1. Project Statement:**

In today’s digital era, the travel and tourism industry is rapidly evolving, with customers seeking seamless and efficient online solutions for trip planning and booking. This project proposes the development of a **Travel and Tour System** using the **MERN stack (MongoDB, Express.js, React.js, Node.js)** to provide a comprehensive platform for users to explore destinations, book tours, and manage itineraries effortlessly. The system will offer real-time booking availability, personalized recommendations, secure payment integration, and an interactive dashboard for both users and administrators. The primary objective is to **enhance the travel booking experience by providing a one-stop digital solution** for travelers and service providers.

### **2. Approximate duration (in hours) to complete the project:**

Approx **400 hours** (80 hours per team member)

### **3. Proposed Project In-Charge:**

* **Samar (2210992234)**

### **5. Check Points:**

**a. Does the project statement result in a product? If yes, what type of product?**  
-- Yes, the project will result in a **web-based travel booking platform** that allows users to search for destinations, make bookings, and manage travel plans online.

**b. If it is a product, can a prototype be made? If not, what can be produced that our teachers can evaluate?**  
-- Yes, a **prototype of the website** will be developed and deployed for evaluation by teachers.

**c. Does the project statement use multiple concepts to achieve the outcome? (yes/no)**  
-- Yes, the project integrates multiple concepts including **web development, database management, user authentication, and online payment processing.**

**d. Does it have enough for our team members to do a sufficient amount of work? (yes/no)**  
-- Yes, the project involves multiple components such as frontend UI/UX, backend logic, database management, and deployment, ensuring an adequate workload for each team member.

### **6. Technical Nodes**

| **Subject / Area / Topic** | **Technical Nodes** |
| --- | --- |
| Backend | Express.js, Node.js |
| Frontend | HTML, CSS, JavaScript, React.js |
| User Authentication | JSON Web Tokens (JWT) |
| Database Management | MongoDB, MySQL |
| Version Control | Git and GitHub |
| Deployment | Amazon Web Services (AWS), Vercel, Heroku |

### **7. Prerequisites (in terms of knowledge, concepts, and material) for doing the project:**

* Strong **logic building** and **problem-solving skills**
* Understanding of **web development frameworks** and **database management**
* Familiarity with **frontend and backend technologies** listed above
* **Desktops/laptops with stable internet connectivity**

### **8. Material that may be required to make the project and where it might be available:**

1. **Desktops/Laptops** – Required for coding, design, and testing
2. **Internet Connectivity** – Essential for research, coding, and deployment
3. **MERN Stack** – Available as open-source technologies
4. **Online Resources** – Documentation, tutorials, and reference materials

### **9. What could be the total cost of the project?**

**$6000** (400 hours \* $15 per hour)

### **10. Resources available to us:**

1. Wikipedia
2. Stack Overflow and other open-source platforms
3. Online tutorials and guides
4. MongoDB Atlas for cloud database management
5. Node.js official documentation
6. Visual Studio Code (VS Code) for development
7. MDN Web Docs for frontend reference
8. Geeks for Geeks for algorithm and coding concepts
9. YouTube tutorials for project implementation guidance