PROJECT SYNOPSIS REPORT

ON

**< TRAVEL-EASE >**

SUBMITTED

TO

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FOR

Back End Engineering(22CS026)

Submitted By

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# Index

Sr. no Topic Page No

1. Problem Statement 1
2. Title of project 1
3. Objective & Key Learning’s 2-3
4. Options available to execute the project 3-4
5. Advantages/ Disadvantages 4
6. References 5

**Travel Ease: Simplifying Your Journeys**

Travel Ease is an innovative online travel agency that aims to revolutionize the way travellers plan and book their trips. Our mission is to provide a seamless and personalized travel experience, offering a wide range of services and options to cater to different travel motivations and skills.

**Problem Statement**

In the travel industry, traveller’s often face challenges in finding and booking tours, accommodations, and transportation on services efficiently. The lack of a unified platform leads to fragmented information on, inefficient booking processes, and reduced user satisfaction. The Travel-Ease platform aims to address these issues by providing an integrated platform that enhances communication, resource access, and management for travellers.

**Title:**

**Travel Ease: Simplifying Your Journeys**

**Objectives**

**Primary Objectives**

* **Convenience**: Make travel easy and convenient for users
* **Variety**: Offer a range of travel options and services to cater to different travel motivations and skills

**Secondary Objectives**

* **Personalization**: Provide personalized travel recommendations to users.
* **Streamline Booking**: Streamline the booking process to make it quick and hassle-free.
* **Information Hub**: Serve as a one-stop information hub for travel-related information and resources
* **Customer Support**: Offer excellent customer support to ensure a smooth and enjoyable travel experience

**Long-term Objectives**

* **Establish Leadership**: Establish Travel-Ease as a leading online travel agency
* **Expand Services**: Continuously expand and improve services to meet the evolving needs of customers
* **Build Community**: Build a community of travellers who share experiences and recommendations with each other

**Technical Approach**

We are considering three options to execute the project:

**Option 1: Monolithic Architecture**

Pros

* Simplified development and maintenance
* Faster deployment
* Easier to manage a single codebase

Cons

* Limited scalability
* Potential performance bottlenecks
* Increased complexity

**Option 2: Microservices Architecture**

Pros

* Improved scalability
* Enhanced fault tolerance
* Increased flexibility

Cons

* Increased complexity
* Higher development overhead
* Potential communication challenges

**Option 3: Containerization using Docker**

Pros

* Improved scalability
* Simplified deployment and management
* Increased flexibility

Cons

* Additional overhead
* Potential performance issues
* Increased complexity

**Microservices Architecture is the best approach due to its:**

* **Scalability**
* **Flexibility**
* **Fault Tolerance**
* **Easier Maintenance**
* **Improved Development Velocity**

**References:**

**Websites:**

* **W3Schools**: A website for learning web development, including HTML, CSS, JavaScript, and more.
* **Bootstrap**: A popular front-end framework for building responsive websites.
* **WordPress**: A content management system (CMS) for building and managing websites.
* **The MERN Stack**: A Comprehensive Guide" (FreeCodeCamp)