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A Sustainable Travel and Tourism System to Enhance the Safety and Security of the Tourist

Sudeepta Paul[1], Badhan Majumdar[2], Ayan Roy[3], Banani Mandal[4], Debjit Dwari[5], Shakshi Kumari[6], Nilanjana Adhikari[7]
[1,2,3,4,5,6,7]*Department of Computer Science and Engineering, Guru Nanak Institute of Technology, Kolkata, West Bengal, India*

Abstract: ***Mobile technology has changed how people travel in India, making it more accessible and convenient. This project explores various travel apps to find key features and challenges they may have. Our app is dedicated to beach destinations and provides a wide range of information about hotels, restaurants, activities, and tour packages. It also includes important emergency contacts and user reviews to help travelers make informed decisions. Additionally, the app delivers disaster alerts and regular weather updates to keep travelers informed. By promoting sustainable tourism, it aims to protect the environment while offering smooth navigation and an improved travel experience.***

Keywords: Real-Time Weather Updates, User-Friendly Interface, Personalized, Instant Disaster Alarms, Emergency Helpline Numbers, Vacation planner

I. INTRODUCTION

Tourism industry has emerged as one of the fastest growing industries in the world and it has been visualized to grow as a rapidly growing sector in respect of job opportunities and income creation. The countries of the world recognize the tourism industry as a mighty component in their social and economic developmental policies. Tourism is regarded to be an eco-friendly means of revitalization of distressed rural and developing people and economies. World tourism can play a very vital role in the establishment of a new international economic strategy which will prove immensely helpful in the reduction of the wide economic disparities between developed and developing nations and to promote stable stimulation of socio-economic development. Many countries like India, Singapore, Philippines, Maldives, Malaysia etc. encourage tourism in a mass sense and have been considered as a major source of It was a vital source of revenue for these countries. Tourism in India has grown phenomenally in the last few years.

Beach tourism is one of the significant elements in tourism industry promotion. Beaches are seen as crucial resources for tourism. Beach tourism is the utilization of the coastal environment with the purpose of attracting tourists. The natural environment such as the beach sand, the waves, and the depth along these areas, Security, views available, and a possibility to establish environmentally friendly cabins are some of the major elements of beach tourism. It may attract several domestic and foreign tourists for any sea and ocean-rich country. The developing economies of several countries and cities across the world rely on the importance of beach tourism for their sustainable developmental process.

India is one of the countries in the world having a wide range of seashores and beautiful beaches each one bringing its own vibe and attractions. But with so many options, it can be tough for travellers to pick the right beach that fits what they want to do. Right now, there's not a great place to find reliable and up-to- date info on stuff like beach conditions, what amenities are available, safety tips, and what activities are best for each spot. This often means people make choices without enough information, leading to not-so-great travel experiences, wasting time, and sometimes even safety issues. For example, a family trying to find a calm, kid-friendly beach might end up at one that's all about the party scene, while thrill- seekers could miss out on awesome spots just because they didn't have enough information. Also, things like water quality and pollution are super important for eco-aware travellers, but that information isn't always easy to find. Our app wants to fill this gap by being a go- to solution that gathers real-time information, user reviews, and expert tips to help travellers make smart choices. It'll have detailed profiles of beach locations, showing important stuff like sand type, water clarity, how crowded it gets, how to get there, and amenities like bathrooms and lifeguards. On top of that, it will share the best activities for every beach, whether it is swimming, sunbathing, surfing, or snorkelling. By including real-time updates on things like weather, tides, and safety alerts, the app makes sure users are prepared and can dodge any surprises.

Shown in Figure 1

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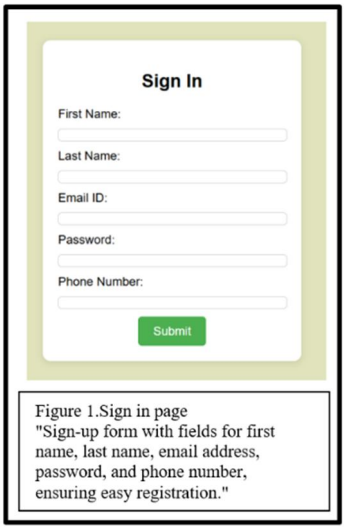

Figure 1.Sign in page
"Sign-up form with fields for first name, last name, email address, password, and phone number, ensuring easy registration."

II. RELATED WORKS

A. Tourism and Socio-Economic Development: A Study on Kerala's Tourism Potential Kirubashini & P. (2019)

Advantage: The report emphasizes how tourism boosts employment and income worldwide and how India's varied tourism options greatly aid in socioeconomic development. Kerala benefits from tourism that boosts local economies because of its stunning natural surroundings, which draw attention from all over the world. The report emphasizes the possibility of more expansion if the state concentrates on boosting infrastructure and beach cleanliness, two crucial elements that would ultimately improve the tourism experience.

Disadvantage: The study also identifies important issues facing Kerala, such as the requirement for better infrastructure and cleaning. Kerala's capacity to sustain sustainable tourism growth may be impacted by the current dearth of these regions, notwithstanding the state's natural advantages. In order to improve tourism amenities while maintaining environmental preservation, the study recommends that public and private organizations collaborate. This creates a challenging balance between development and conservation.

B. Journal of Vacation Marketing. The Use of Mobile Applications: Impacts of Application Quality and Brand Trust.Albayrak, T., González-Rodríguez, M. R., Caber, M., & Karasakal, S. (2023).

Advantage: Travel apps offer many benefits, making the booking experience highly convenient by allowing users to book flights, accommodations, and activities with just a few taps on their smartphones, thereby saving time and effort. They provide personalized recommendations based on users' preferences and past travel experiences, enhancing the overall booking experience. These apps also have real- time flight delay, cancellations, and more travel information. This enables a user to alter their plans accordingly. More than that, traveling apps give their users some special deals that may not be accessible elsewhere. Travelling becomes really cost- effective due to these applications, which come with intuitive interfaces and user-friendly designs.

Disadvantage: While travel apps have many benefits, there are also several drawbacks. Users might become too reliant on these apps, which may reduce spontaneity and the fun of finding new places. Moreover, while travel apps provide much useful information, they may not always have the latest or most complete information, especially for remote areas. Technical issues, such as bad internet connectivity or app malfunction, can also ruin travel plans and frustrate users. User reviews, although helpful in general, may sometimes be biased, inaccurate, or even fake, which may lead to misinformation. Another concern is privacy, as users may be worried about their personal data being collected and used by these apps. Therefore, although travel apps can greatly enhance the booking experience, there are some potential drawbacks to be aware of.

C. An Elementary Theory of Sustainable Coastal Tourism Joseph and Pakkeerappa (2015)

Advantages: The study emphasizes the importance of sustainable development techniques and the detrimental effects that coastal tourism has on the ecosystem. It increases awareness about striking a balance between tourism expansion and ecological protection by analyzing the harm that tourism causes to biodiversity, beach ecosystems, and coastal landscapes.

Additionally, it provides sustainable solutions to lessen these adverse effects, which can help developers and legislators embrace environmentally favourable procedures. Furthermore, the study's emphasis on preserving intact coastlines and healthy ecosystems offers important insights into the long-term advantages of sustainable tourism.

Disadvantages: The analysis was published in 2015; thus, it doesn't cover more current changes, such as the Environmental Impact Assessment (EIA) 2020, which affects India's coastal conservation laws. Its applicability to the current policy debates is thus limited. Furthermore, the study generalizes the effects of tourism on the ecosystem without exploring data or case studies relevant to a given place, which could have improved the actionability of the conclusions. Although it offers sustainable alternatives, it does not provide comprehensive, step-by-step implementation plans, thus stakeholders are left with general suggestions rather than workable answers.

D. A Review on Coastal Tourism in India Chandravanshi, Neelmani, Mishra, Kumar, and Devi

Advantages: The study by Chandravanshi et al. (2020), *"A Review on Coastal Tourism in India,"* highlights the immense potential of India's coastal tourism, emphasizing the economic and cultural significance of its vast coastline. It provides a historical perspective on the evolution of coastal tourism and its impact on local communities and ecosystems. This information is highly valuable for understanding the balance needed between tourism growth and environmental sustainability. The study also advocates for sustainable tourism practices and better coastal conservation methods, which can serve as a guide for creating eco-friendly tourism strategies. Furthermore, the discussion on policies like the Environmental Impact Assessment (EIA) 2020 adds relevance by addressing the regulatory framework for sustainable development.

Disadvantages: While the study identifies the challenges of unregulated coastal tourism, it lacks detailed case studies or specific region-based data, which could make its recommendation more actionable. It is more difficult to immediately apply the recommended solution such as improving conservation practices to localized situations since they are general and lack specialized implementation methodologies. Furthermore, although policies such as EIA 2020 are mentioned, the report does not thoroughly examine their possible disadvantages or difficulties in enforcing them, leaving space for additional research. This might limit its usefulness for stakeholders looking for practical or region-specific advice. Although the report highlights the difficulties associated with uncontrolled beach tourism, it is devoid of specific case studies and data from a particular region, which would have made its suggestions more useful. Its relevance for stakeholders looking for practical or region-specific advice may be limited as a result.

III. EXPERIMENTAL SETUP

A. Programming Language

1) Home Page:

Language: JavaScript (React Native)

Why: The home page will serve as a common interface across both Android and iOS platforms. React Native is ideal for building this page because it allows you to create a smooth, responsive interface with reusable components like buttons, sliders, and cards for displaying beach recommendations, navigation options, and alerts.

Shown in Figure 2

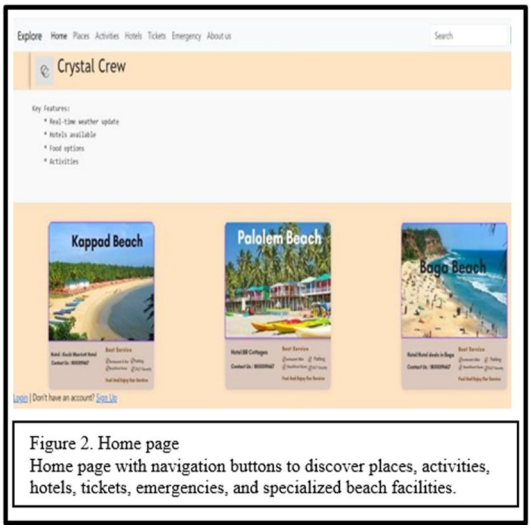

Figure 2. Home page
Home page with navigation buttons to discover places, activities, hotels, tickets, emergencies, and specialized beach facilities.

2) Hotel Booking Page

Language: JavaScript (React Native) for UI + Python for backend (booking system)

Why: Front-end: The UI for the booking system will need to work seamlessly across platforms. JavaScript with React Native will help you display options for hotels, filters, and booking status.

Back-end: Python can manage the database of hotels, availability, and bookings. Libraries like Django or Flask can handle server-side operations, integrating with APIs for secure transactions and booking data.

Version: React Native v0.72.0, Python 3.11.

Shown in figure 3

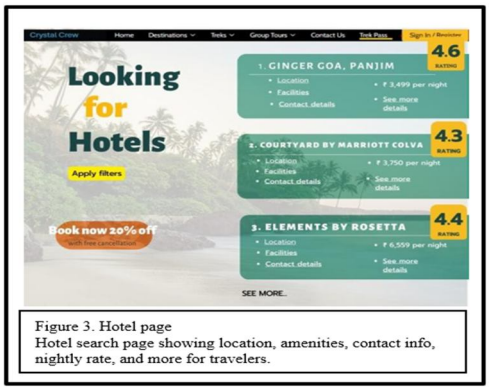

Figure 3. Hotel page
Hotel search page showing location, amenities, contact info, nightly rate, and more for travelers.

3) Weather Update Page

Language: JavaScript (React Native) for UI + Python for real-time data processing

Why:

Front-end: JavaScript with React Native will allow you to build a visually appealing and interactive weather update page, displaying current weather conditions in a user- friendly format.

Back-end: Python can be used to fetch and process weather data from APIs (such as INCOIS or other meteorological sources), using libraries like requests to pull data and pandas for data processing.

Version: React Native v0.72.0, Python 3.11

4) Information of Beach Page

Language: JavaScript (React Native) for UI + Python for fetching and processing real-time beach data

Why: Front-end: JavaScript with React Native will ensure a dynamic and responsive interface, showing users key details about the beach, such as safety levels, amenities, and crowd density.

Back-end: Python can handle the retrieval of information from external sources, process the data, and send it to the app. APIs and web scraping can be useful here for live updates.

Version: React Native v0.72.0, Python 3.11.

Shown in Figure 6

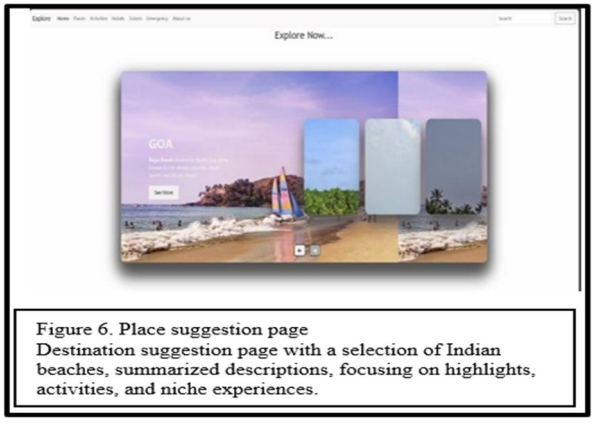

Figure 6. Place suggestion page
Destination suggestion page with a selection of Indian beaches, summarized descriptions, focusing on highlights, activities, and niche experiences.

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5) Transaction Page

Language: JavaScript (React Native) for UI + Kotlin/Swift for platform-specific security + Python for backend.
Why: Front-end: React Native will handle the front-end UI for the transaction process, but platform-specific code (Swift for iOS and Kotlin for Android) may be needed to integrate with native payment systems (e.g., Apple Pay, Google Pay).
Back-end: Python will be used for processing transactions securely, handling user data, and communicating with payment gateways. Libraries like Stripe, PayPal SDK, or Razor pay can be integrated for secure transactions.
Version: React Native v0.72.0, Python 3.11, Swift 5.8, Kotlin 1.9.0

B. Frameworks

1) Frontend Framework

React Native is perfect for developing our mobile interface on both Android and iOS from a single codebase. It simplifies development and provides a uniform user experience.
Cross-platform efficiency: Single codebase for every device.
Interactive maps: Use react-native-maps to display live beach data.
Navigation & UI: Employ react-navigation and refined UI libraries such as React Native Elements.
Live updates: Hot reloading allows us to see the changes in real time.
Web compatibility: We're able to deploy our mobile UI to desktop browsers using React Native Web.

2) Backend Framework

Django takes care of our app's backend functionality and data movement. It manages real-time suitability scores, beach metadata, user accounts, and so on.
Secure API endpoints: Delivers data for ocean alerts, beach reviews, and preferences
Authentication & user data: Safeguards sensitive user information while providing admin tools
Salable structure: Accommodates expanding data as our app grows in more regions.

3) Data Management & API Integration

Axios: Handles secure API communication between Django and React Native.
Context API or Redux: Manages global state throughout our app, such as login sessions, alerts, or beach filters.

4) Geospatial & Visualization Tools

Map box or Google Maps API: Drive dynamic visualization of beaches with coloured markers indicating real-time suitability.
GeoJSON & coordinates: Assist us in determining distances from user location to coastal locations.

5) Cloud & Infrastructure

Firebase Cloud Messaging: Facilitate alert notices when a local beach is rendered unsafe
MongoDB or PostgreSQL: Cache real-time data (such as environmental measurements) and structured user data
AWS/Azure cloud services: Deploy our backend, APIs, and real-time processing

C. Cloud Service

1) Scalability and Adaptability in Our Travel App:

Cloud environments enable our app to scale immediately to meet user demand—particularly handy during holiday travel periods or unexpected increases in usage due to environmental warnings. Whether there are thousands of users verifying beach advisability or viewing weather information, the cloud delivers seamless performance without lag.
We can dynamically provision resources to process real-time map rendering, alert pushes, and real-time data ingestion.
New functionality—such as a new suitability filter or community feature—can be rolled out quickly without downtime.

2) Data Storage and Smart Management:

Our app manipulates varied and sensitive data, including user locations, preferences, environmental information, and community reports. Cloud storage safely stores this data and makes it readily available at any time.
Cloud-hosted databases (such as MongoDB Atlas or Firebase) enable encrypted storage of ocean safety indicators, user profiles, and reviews.

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Cloud analytics capabilities can assist us in examining user behaviour—such as which beaches get the most searches or what conditions are most important—so we can make refinements.

3) Real-Time Push and Seamless Integration:

Our application relies on current, real-time data about coast conditions, environmental appropriateness, and notifications. Cloud services enable this by enabling API interactions and real-time data streaming.

We can incorporate INCOIS APIs and geolocation services to provide real-time accurate oceanic and weather information.

By using cloud messaging (such as Firebase Cloud Messaging), we provide real-time instant notifications when a local beach is unsafe due to tide, jellyfish presence, or pollution levels.

4) Improved and Customized User Experience:

With cloud-based AI and ML capabilities, our application can adapt recommendations specifically to individual users—if they like adventurous beaches, secluded spots, or family destinations.

Cloud-based ML tools can process browsing habits, ratings, and review history to recommend more appropriate destinations.

Offline-first design enables critical data (such as remembered beaches or alerts) to be available even when there is no internet.

5) Cost-Efficiency and Trustworthy Deployment:

Our infrastructure remains affordable due to the pay-as-you-go system of cloud platforms. We pay only for what our application uses, which means we scale without wasting money on it.

Cloud-hosted continuous integration and deployment (CI/CD) pipelines make our release cycles easier.

Failovers, monitoring tools, and backups guarantee uptime even during peak load times or outages.

Standard Cloud Models We Utilize

IaaS (Infrastructure as a Service): Provides us with compute power that is scalable and secure storage space for environmental data and map tiles.

PaaS (Platform as a Service): Enables us to build, test, and host our Django backend and Node.js services without having to deal with infrastructure.

SaaS (Software as a Service): Integrated solutions for analytics, customer support, and email support simplify how we fix and enhance our app.

Shown in Figure 5

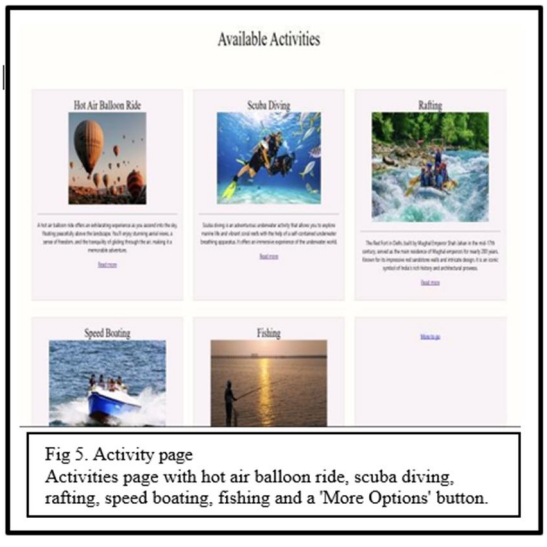

Fig 5. Activity page
Activities page with hot air balloon ride, scuba diving, rafting, speed boating, fishing and a 'More Options' button.

D. Data Base

1) MongoDB 8.0 – Document Store NoSQL:

- Quarriable Encryption: Secure client-side encryption with searchable encrypted fields.
- Faster Reads and Writes: Enhances read speed by 36% and collective write speed by 56%.
- Time-Series Optimization: Optimizes time-series data handling by 200%, ideal for real-time environment logs.

- High-Performance Allocation: Provides 50x faster allocation of data and vector-based data support.
- Demand Resilience: Efficient handling of concurrent workloads and query timeout limits and workload resets.
- App Benefits: The app is created to handle dynamic environment and safety-related data in a competent manner so that users get current information regarding coastal conditions. The architecture allows for the processing of intricate and nested data structures like stratified alerts, variable water quality reports, and multiple weather indicators so that all similar factors are articulated with accuracy. Geospatial functionalities form the backbone of the system, facilitating real-time visualization of beach suitability via location-based mapping and color-coded risk areas. Above all, it integrates secure querying mechanisms to safeguard sensitive data, like pollution levels or hazard alerts, to maintain confidentiality of data while ensuring access for authorized analyses

2) MySQL – Relational SQL Database:

- Advanced SQL Queries: CTEs, window functions, and JSON_TABLE() enable advanced data operations.
- Indexing Improvements: Hidden and descending indexes accelerate sorting and filtering.
- Semi-Structured Data: Integration with JSON and document store provides flexibility as SQL-NoSQL hybrid.
- Secure Transactions: Offers ACID compliance, OpenSSL encryption, and role controls based on SQL.
- High Availability: Inno DB Cluster and Cluster Set provide uptime and disaster recovery with simple replication.
- Benefits of the App: MySQL is best suited to manage structured data in the app and thus is suitable for managing user profiles, account settings, and system preferences with reliability and clarity. Its transactional integrity ensures efficient processing of login procedures, user-specific configurations, and activity tracking, enabling the app to provide a consistent and secure user experience. Furthermore, MySQL's native Geographic Information System (GIS) support boosts the app's capability to execute structured location-related queries—making possible efficient filtering, search, and service provision based on a user's geographical specifications.

Shown in Figure 4

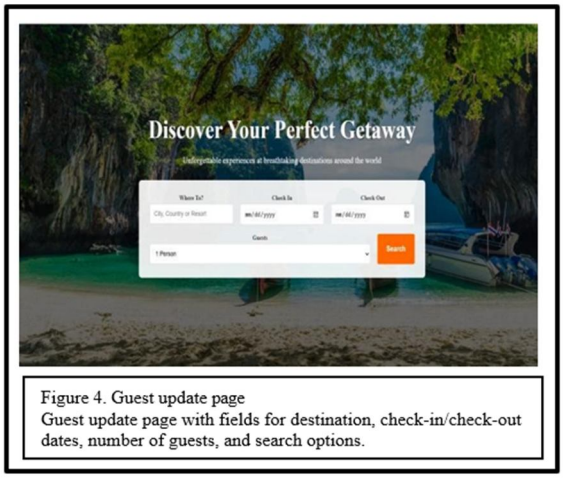

Figure 4. Guest update page
Guest update page with fields for destination, check-in/check-out dates, number of guests, and search options.

IV. PROPOSED METHODOLOGY

A. Purpose and Vision

The app is crafted as an all-round digital sidekick for Indian coastal tourism. It enables users to make educated, secure, and customized decisions when choosing beaches for leisure. By combining real-time information, user content, and smart filtering, the app transforms the experience of planning a coastal holiday.

B. User Experience and Interface

When the app is launched, the user is presented with an interactive geospatial map of India with all known and supported beaches represented as dynamic markers. The markers are color-coded to indicate their current suitability status (e.g., green for suitable, red for caution, grey for unavailable data).

Users can use enhanced filters, such as:

- Proximity to current location.
- Popularity or crowd density.
- Recreational options (e.g., swimming, surfing, sunbathing, nature walks).
- Facilities (e.g., presence of clean toilets, restaurants, lifeguards, parking lots).
- Every beach marker points to a comprehensive profile page, featuring:
- High-definition images.
- Current weather forecasts.
- Water temperature and quality ratings.
- Computer-generated suitability indicators.
- Crowd-contributed user reviews, updates, and safety ratings.

Table

User ID	Destination	Departure Date	Return Date	Total Cost	Rating (1-5)
12345	Andaman Nicobar Island	20-10-2023	27-10-2023	$1,500	4
67890	Kerala	05-11-2023	12-11-2023	$2,200	5
13579	Puri	15-12-2023	22-12-2023	$1,800	4.5
24680	Goa	10-01-2024	17-01-2024	$1,200	4
98765	Pondicherry	01-02-2024	08-02-2024	$1,900	4.8

Table 1. Structured Storage of Coastal Travel

C. Real-Time Safety & Environmental Updates

The app uses APIs from INCOIS (Indian National Centre for Ocean Information Services) to consume oceanographic data in real time.

The data includes:

- Wave height, swell surge, and tidal regime
- Wind speed and ocean currents
- Tsunami or storm surge warning
- Water pollution level
- There is an ongoing background process that constantly checks these parameters and passes them through a suitability algorithm. This algorithm arrives at:
- Whether a beach is safe for use at the current time.
- The confidence of that determination.
- The cause of any alert or advisory (e.g., high density of jellyfish or rip current alert).
- Users will immediately receive notifications if warnings are triggered for beaches in the vicinity of their immediate GPS location or for any beach that they've identified as a favourite.

D. Community Involvement and Participation

To encourage responsible tourism and real-time cooperation, the app features a community-based contribution framework:

- Users can contribute cleanliness status, jellyfish, or crowded areas.
- Visitors can post items about nearby events like beach yoga, food festivals, or clean-up activities.
- Ratings and reviews assist others in assessing experiences beyond environmental considerations.
- This makes the site new, localized, and socially aware.

E. Personalization and Smart Recommendations

The app monitors user search patterns and tastes to enhance recommendations. For example:

If a user consistently visits distant or less-visited beaches, the app will point out similar locations in off-the-beaten-path coastal states.

- For thrill-lovers, the system can recommend places with surfing or boating facilities.
- Recommendations learn over time as user behaviour changes, forming a smart discovery engine.

F. Social Sharing and Features

To incorporate a human element, the app includes social connectivity features:

The app allows users to share beach activities with friends and family via the app or through integrated messaging.

- Social feeds show photo moments, beach advice, or group meetups for fellow travellers in the vicinity.
- This builds a sense of travel community and forms memories together.

G. Technical Backbone and Cloud Services

- The app uses cloud-native infrastructure, which allows:
- Real-time processing and ingestion of data.
- Large user volume deployment with elastic scaling for peak travel periods
- Quarriable encryption for secure storage (similar to that used in MongoDB)
- Smooth push notification features and GPS tracking
- API-based integration for weather services, map providers, and INCOIS
- Low latency and high availability in the cloud, essential for emergency alerts or alternative plan changes at the last moment.

V. CONCLUSIONS

In summary, your ultimate beach getaway companion is our beach travel app. With facilities such as alarm reminders, up-to-date updates, easy booking facilities, emergency services, and a variety of activities, we make your beach vacation nothing less than extraordinary. Our app is here to take care of your every convenience, from dawn till dusk, so that you may sit back and enjoy the sun, sand, and surf with confidence. Set sail on your beach getaway feeling secure, knowing that our app has all the resources you require for a safe, enjoyable, and memorable vacation. Plunge into the ultimate beach vacation experience with our app on your side!

VI. ACKNOWLEDGEMENTS

We would also like to thank all the people involved in the creation of this beach vacation travel app. Special thanks to our committed team of developers, designers, and testers for their sleepless nights and innovative thinking. We thank our beta testers and first users as well for their input, which has been so helpful in shaping our app. In addition, we would like to thank our friends, families, and partners for their support and encouragement. Your unshakeable faith in our vision has been our motivation. Finally, thank you to our users for entrusting us with your beach vacation plans. We hope our app enriches your beach experiences and makes your vacations simply unforgettable.

Code link: https://github.com/Sudeeptapaul/travel-site

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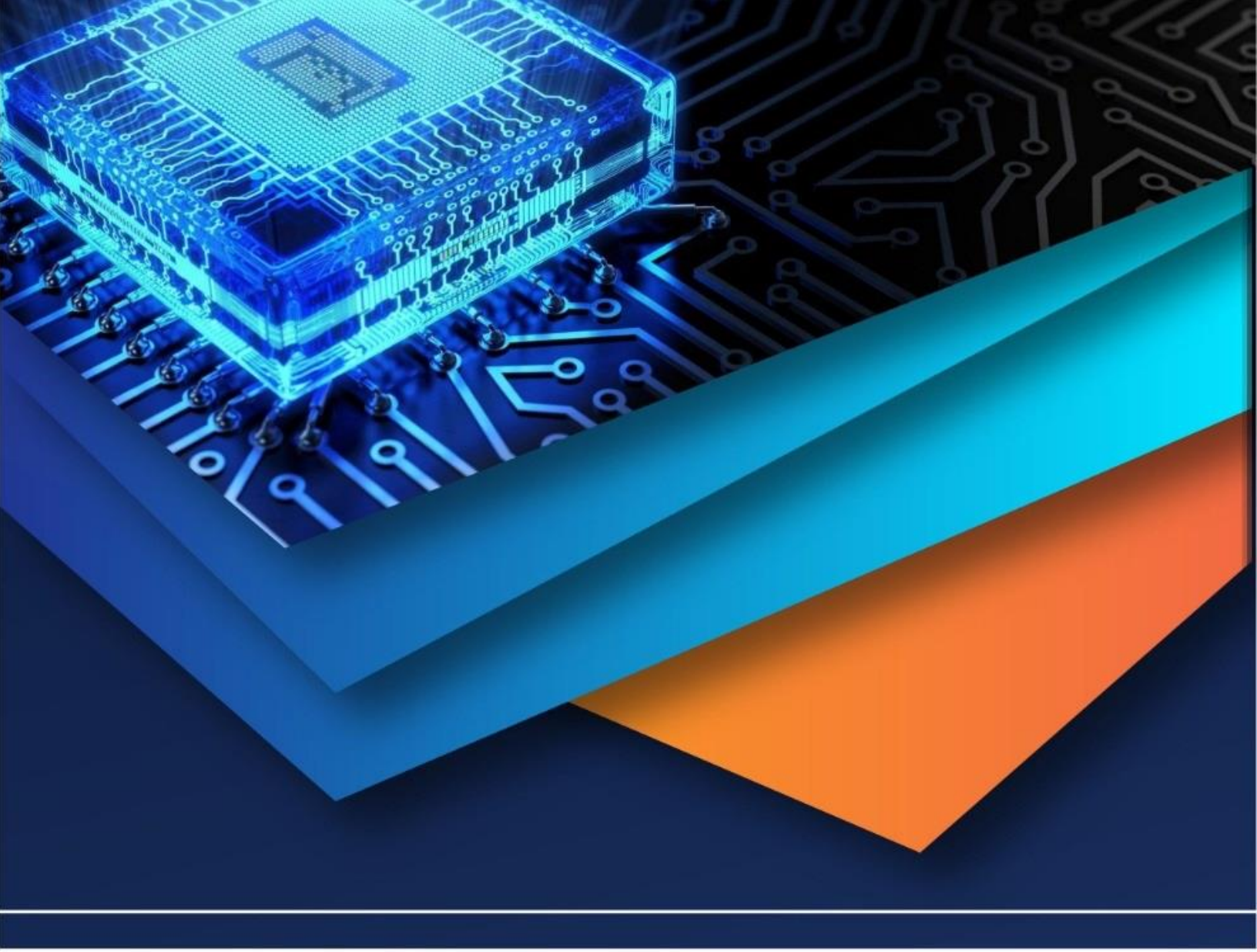

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