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| **Bangabandhu Sheikh Mujibur Rahman Science and Technology University**  **Department of Computer Science and Engineering** | | |
| **Software Development Project Proposal** | | |
| **Project Title:** TourEase**:** Navigating Bangladesh - Your Ultimate Online Travel Companion. | | Type: Web Application and Mobile Application |
| Student Information:   |  |  | | --- | --- | | Name | Md Abu Bokor | | ID No. | 18CSE056 | | Session | 2018-19 | | Supervisor Information:   |  |  | | --- | --- | | Name | Dr. Syful Islam | | Designation | Assistant Professor | | |
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| **Introduction:**  Bangladesh boasts numerous captivating tourist destinations, drawing millions of visitors worldwide annually. Regrettably, many tourists remain unaware of suitable accommodations and reliable guidance upon arriving at these locales[1]. Consequently, they frequently encounter difficulties in securing lodging and coordinating their trips. An online platform has the potential to rectify these issues, benefiting tourists, hotels, and guides alike. | | |
| **Goals/Statement of Purposes:**  Our project seeks to transform Bangladeshi tourism through an online platform, streamlining accommodation booking, providing reliable local guidance, and promoting sustainable practices. We aim to empower tourists, boost local economies, and enhance overall experiences while fostering partnerships. With user-friendly interfaces and continuous enhancements, we aspire to elevate travel in Bangladesh, showcasing its beauty and culture. | | |
| **Deliverables/Objectives:**  The project's objectives include building a user-friendly website and mobile application,partnering with accommodations and local businesses, setting up easy booking, offering reliable destination info, enabling user reviews, and encouraging sustainable tourism and community involvement. | | |
| **Success Criteria/ Highlight the Benefits:**  The project's success will be measured by simplified travel experiences, seamless bookings, boosted local economies, empowered communities, and increased transparency through user reviews. It aims to enhance tourism revenue, preserve heritage, provide educational value through local guides, and continuously improve based on user feedback. | | |
| **Methods/Approach**:  We'll follow an Agile method comprising planning, design, development sprints, data integration, user testing, partnerships, and continuous enhancement. Using the MERN stack, we'll create a user-friendly interface and backend functionalities. | | |
| **Technology Stack/ Resources**:  The project will leverage the MERN stack and Flutter for its development:  **Frontend**: Utilizing React to create an intuitive user interface and Flutter for mobile application  **Backend**: Employing Express.js and Node.js to handle server-side operations.  **Database**: Utilizing MongoDB and Firebase to store and manage data efficiently. | | |
| **Risks and Dependencies**  **Risks**: Challenges in building features, using the MERN stack, and finding accurate data might cause delays. Getting people to use the platform and partnering with hotels could be tough.  **Dependencies**: We need accurate data from outside sources. Partnerships with hotels and local businesses are important. Feedback from users will guide us. | | |
| **Timeline/ Expected Schedule**:   |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Activity Information | 08 09 10 11 12 01 02 03 04 05 06 07 | | | | | | | | | | | | | Activity-1 Project Initiation and Planning |  |  |  |  |  |  |  |  |  |  |  |  | | Activity-2 Design and Prototype |  |  |  |  |  |  |  |  |  |  |  |  | | Activity-3 Backend Development |  |  |  |  |  |  |  |  |  |  |  |  | | Activity-4 Frontend Development |  |  |  |  |  |  |  |  |  |  |  |  | | Activity-5 Continuous Testing and Optimization |  |  |  |  |  |  |  |  |  |  |  |  | | | |
| **References**: [1] Md Kashedul Wahab, Tuhin, and Md Tofael Hossain Majumder. "An appraisal of tourism industry development in Bangladesh." European Journal of Business and Management 3, no. 3 (2011). | | |