

**Assignment -1**

**Statement of Work**

**CSE 307: System Analysis and Design**

**Section: 03 (Spring 2024)**

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**“Tour Makers”-an Information System**

**Project Goal and Objectives**

**Project Goal:**

To create an easy-to-use software system for managing and organizing “Tour Makers” software is a step toward offering travelers to Bangladesh a comprehensive and user-friendly solution. By offering details on well-liked tourist spots, it seeks to help people plan their itinerary.

local customs, lodging possibilities, transit options, and cultural sites. The software seeks to improve the trip experience overall and make traveling through Bangladesh simpler and more pleasurable.

**Objectives:**

* To Develop a Tour Makers Information System software with a user-friendly interface, making it easy for users to navigate and access vehicle information.
* To Offer consumers a smooth and customized experience should be the main objective of the software. Featuring such as real-time updates, multilingual support, interactive maps, and social media platform integration for experience sharing are possible inclusions.
* To allow features for users with disabilities should be included in the program. Adhering to accessibility guidelines, offering alternatives for image captions, and allowing customizations for color contrast and font size are all ways to make something more accessible.
* The customers should be able to easily schedule tours online and make payments using a safe and intuitive platform that the software offers. Support for many currencies and integration with well-known payment gateways should be offered.
* The program need to facilitate smooth communication between tour operators, tour guides, and tourists.
* Customer data security and privacy has to be given top priority in the software.
* Even without an internet connection, users should be able to access key features and information through the program.

**History leading to project request**

The Tour Makers software project is an innovative initiative aimed at revolutionizing the tourism industry in Bangladesh. Developed with the purpose of providing tourists with a comprehensive and user-friendly platform, this software is designed to offer an enhanced and personalized travel experience.

The project began with a collaborative effort between experienced tour guides, software developers, and tourism experts. Their collective goal was to create a digital solution that would simplify the process of exploring Bangladesh's rich cultural heritage, historical landmarks, and natural wonders.

The software encompasses a wide range of features and functionalities. It provides users with detailed information about popular tourist destinations, including historical background, geographical significance, and local customs. It also offers interactive maps, allowing travelers to plan their itineraries and navigate through unfamiliar areas effortlessly.

The software's clever recommendation mechanism is one of its best features. The application creates customized schedules based on users' past activities and preferences, making sure that every visitor may maximize their time in Bangladesh. Furthermore, the software offers up-to-date information on local events, transportation choices, and weather, enabling travelers to modify their plans as necessary.

The Tour Makers software project required a great deal of study, careful planning, and testing during its development. Accurate and current information was gathered by the team through close collaboration with local communities and tourism authorities. In order to continuously enhance the software's functionality and usability, they also included user feedback.

In conclusion, the Tour Makers software project has successfully combined the expertise of tour guides and software developers to create a cutting-edge solution for travelers. With its user-friendly interface, personalized recommendations, and real-time updates, the software has redefined the way people explore and appreciate the beauty of Bangladesh.

**Identify Problem, Solutions & Opportunities**

**Problems:**

* Lack of Information: Tourists often struggled to access comprehensive and reliable information about tourist destinations, historical landmarks, and local customs in Bangladesh.
* Language Barrier: Many tourists faced difficulties due to the language barrier, as English proficiency levels varied among locals. This hindered effective communication and created a gap in providing necessary information.
* Safety and Security Concerns: Ensuring the safety and security of tourists is a crucial responsibility for tour guides. However, in certain areas, there may be concerns related to crime, political instability, or natural disasters, which can pose risks and challenges for tour guides in ensuring a safe environment for visitors. identifying traffic offenders.

**Solutions:**

* The software project collated accurate and detailed information about tourist destinations, historical landmarks, and local customs. It offered a centralized platform where tourists could access all the necessary information, enabling them to plan their itineraries effectively and make informed decision.
* The software was designed with a multilingual interface, offering language options beyond English. This would allow tourists who were not proficient in English to access information in their preferred language, ensuring a better understanding of the content providing Voice Assistants & Translation Service.
* The Tour Makers software can provide essential safety information to tourists. It can include guidelines on general safety precautions, local laws and regulations, and emergency contact numbers. This empowers tourists with the necessary knowledge to stay safe during their travel.

**Opportunities:**

* By overcoming the language barrier, the software significantly improved the overall visitor experience. It allowed tourists to access information in their native language, making them feel more comfortable and engaged during their travel. This, in turn, increased their satisfaction and likelihood of recommending the software and visiting Bangladesh again.
* Breaking the language barrier opened up Bangladesh's tourism industry to a wider range of international visitors. With information available in multiple languages, tourists who were previously deterred by the language barrier could now explore the country confidently. This created opportunities for increased tourism demand, leading to economic growth and job creation.
* By addressing safety and security concerns, the Tour Makers software can build trust among tourists. Positive experiences and a reputation for prioritizing safety can lead to repeat visits and positive word-of-mouth recommendations, attracting more tourists to the country. The project can facilitate training programs and certifications for tour guides to ensure that they are knowledgeable about safety protocols and can provide guidance to tourists. This enhances the professionalism of tour guides and instills confidence in tourists regarding their safety.

**Product Description**

1. **Product Summary:**

The Tour Makers software project is a user-friendly digital solution designed to enhance the travel experience in Bangladesh. It provides comprehensive information about tourist destinations, interactive maps for easy navigation, personalized recommendations, and real-time updates on weather and local events. With a focus on safety and security, the software ensures tourists have access to essential information and assistance. By offering reliable transportation options and secure accommodation suggestions, the project aims to promote tourism, boost the economy, and establish Bangladesh as a preferred travel destination.

1. **Product Stakeholders**

* Tourists: The primary stakeholders are the tourists themselves, who will use the software to enhance their travel experience, access information, plan itineraries, and receive personalized recommendations.
* Software Developers: The software developers are responsible for designing, developing, and maintaining the Tour Guide Bangladesh platform. They ensure the software is user-friendly, functional, and capable of delivering the desired features and functionalities.
* Transportation Services: Transportation services, including taxis, car rentals, and local transport providers, are stakeholders in the project. By partnering with reliable transportation services, the software ensures that tourists can travel safely and conveniently within Bangladesh.

**Hardware & Software Details**

**• Components:**

1. Hardware components:

* Smart phone
* Laptop or desktop computer
* Active Internet connection

1. Software components:

* XAMPP for Windows v8.1.2 with Control Panel v3.3.0 and PHP v8.1.2
* Android Studio
* Visual Studio code

**• Architecture:**

1. Hardware architecture:

* A laptop or desktop computer with at least 8 GB RAM and 128 GB SSD and Intel Core i5 processors
* A smart phone with enough memory and processing power
* A stable and reliable Internet connection with at least speed of 10 MBPS

1. Software architecture:

* Windows 11 v21H2 (at least Windows 10)
* Android version 8.0 (Oreo) or above with Google Play Services

**Software key technical features**

* accessible from anywhere with an android mobile phone
* user-friendly
* users’ data integrity is maintained
* flexible as the system is able to handle future changes
* handle a large number of customers and transactions
* strong security measures in place, such as encryption, to protect user information