SOLUTION PROPOSAL AND RECOMMENDATION

PROJECT: DISCOVER TSHWANE

TEAM: TSHWANE TECH TRANSFORMERS

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1. Introduction

The Discover Tshwane project, developed by Tshwane Tech Transformers during a 3-day hackathon, aims to create a centralized system for accessing and managing cultural, heritage, recreational, and museum facilities in Tshwane. This document outlines the recommended solutions based on the identified requirements, evaluation, and analysis.

2. REQUIREMENTS SUMMARY

Improve

Improve Accessibility: Facilitate easier access to information about cultural, heritage, and recreational facilities.

Enhance

Enhance User Engagement: Provide features that allow users to book events, engage with the community, and take virtual tours.

Generate

Commercialization: Generate revenue through subscriptions, hosting commissions, and USSD rates.

3. EVALUATION AND ANALYSIS

CURRENT CHALLENGES: DIFFICULTY ACCESSING AND MANAGING INFORMATION ABOUT CULTURAL, HERITAGE, AND RECREATIONAL FACILITIES.

DESIRED OUTCOMES: A CENTRALIZED, USER-FRIENDLY PLATFORM THAT CONSOLIDATES INFORMATION, ALLOWS FOR BOOKINGS, AND ENHANCES COMMUNITY ENGAGEMENT.

4. RECOMMENDED SOLUTION

4.1 Centralized Information Platform

- **Description**: Develop a platform that consolidates information about cultural, heritage, and recreational facilities in Tshwane.
- **Features**:
  - Detailed descriptions of facilities.
  - Up-to-date event information.
  - Search and filter options for easy navigation.
- **Benefits**: Improved accessibility and user experience.

4.2 Real-Time Booking System

- **Description**: Implement a booking system that allows users to book events and facilities in real-time.
- **Features**:
  - Real-time availability and booking.
  - Confirmation and notification system.
- **Benefits**: Streamlined booking process and increased user convenience.

4.3 Community Engagement Tools

- **Description**: Create tools for users to interact with the community and participate in events.
- **Features**:
  - Forums and discussion boards.
  - Event participation and feedback mechanisms.
- **Benefits**: Enhanced community engagement and user interaction.

4.4 Virtual Tours

- **Description**: Offer high-quality virtual tours of cultural and heritage sites.
- **Features**:
  - Interactive virtual tours.
  - High-quality visuals and immersive experiences.
- **Benefits**: Increased accessibility to cultural and heritage sites, especially for remote users.

5. NON-FUNCTIONAL REQUIREMENTS

5.1 Performance

Requirement: The system should perform efficiently under moderate traffic volumes.

Recommendation: Optimize the platform for performance to ensure a smooth user experience.

5.2 Security

Requirement: Ensure basic data privacy and protection for all users.

Recommendation: Implement security measures to protect user data and maintain privacy.

5.3 Scalability

Requirement: The system should be scalable to accommodate future growth.

Recommendation: Design the platform with scalability in mind to support additional features and increased user base.

5.4 Reliability

Requirement: Ensure the system is stable and has minimal downtime.

Recommendation: Focus on system reliability and implement measures to minimize downtime.

6. COMMERCIALIZATION STRATEGY

Subscriptions: Offer subscription plans for premium features and services.

Hosting Commission: Charge a commission for hosting events and activities on the platform.

USSD Rates: Implement USSD-based services with associated charges.

7. CONCLUSION

The Discover Tshwane project aims to create a centralized, user-friendly platform that enhances access to cultural, heritage, and recreational facilities in Tshwane. By implementing the recommended solutions, the project seeks to improve user engagement, provide a valuable resource for the community, and generate sustainable revenue.