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Temple Management System

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Abstract: This is the era of technology. The technology makes the human life easy. This paper discussed how the technology can be used for advertisement and also for management purpose. Sai Mandir App is an android app which illustrates the same application. The main technology used here is an Android Smart Phone. Android is the very popular operating system for mobile devices. Android is very easy to use and most people use Android devices worldwide. Google Play Store is also the reason for the popularity of Android. It allows the android developers to publish their Android projects and these projects can be download from anywhere in the world. Since the android marketplace is very large, the developer can reach to many people throughout the world as the android users are huge in number.
Keywords: Temple, Management, Advertise, Android, i-Brochure

I. INTRODUCTION

Nagpur is known as Orange City located at the centre of India, the zero-mile monument in city indicating the geographic centre of India. Sai Temple located at Wardha Rd, Nagpur is very famous for a religious purpose in Nagpur City.
Many people come to visit this place throughout India.
Sai Mandir android app represents this temple digitally. This app contains whole information about Lord Sai and Sai Temple, Nagpur. It also helps to manage the rush in the temple. It also handles the money transaction related to donation. To make this app available for public, it is now uploaded to the Google Play Store.

II. RELATED WORK

We studied that first version of this app doesn't provide the facility of payment, GPS location, Token system etc. Hence the popularity of the app was less and fewer people know about the people. Also, we observed that at the time of the festival, there is a rush in the temple because many people visit the temple for the devotional purpose.
So, there should be some system which can handle the rush in the temple so people will face fewer efforts and they can do their religious work at schedules time.
One more difficulty faced by the users is to find the location of the temple as the search engines like Google gives multiple results so the people get confused to find the correct path to reach the temple. We compiled all the issues and started finding the solution to these problems.

III. DEVELOPMENT OF SAI MANDIR APP

A. Planning

The app is to be work like both – Introductory as well as for Management. In order to make it introductory, we needed all the information about the temple, such as its history, list of prayers & their schedule, contact information of trustees, photos etc. We collected this whole information from the temple and used it to develop the android app.
Also, some additional features planned like meditation, using which the user can do meditation. Some other services we searched to develop different modules like - Google map service for finding the location of temple easily, Suitable payment gateway to implement Donation module, Server space for hosting scripting files.
Suitable IDE and software developing an environment to develop the app.
We started developing the app using Eclipse IDE, but for additional features, we shifted from Eclipse to Android Studio. We also introduced Multilanguage support for local residents so the app is more understandable for the general public.
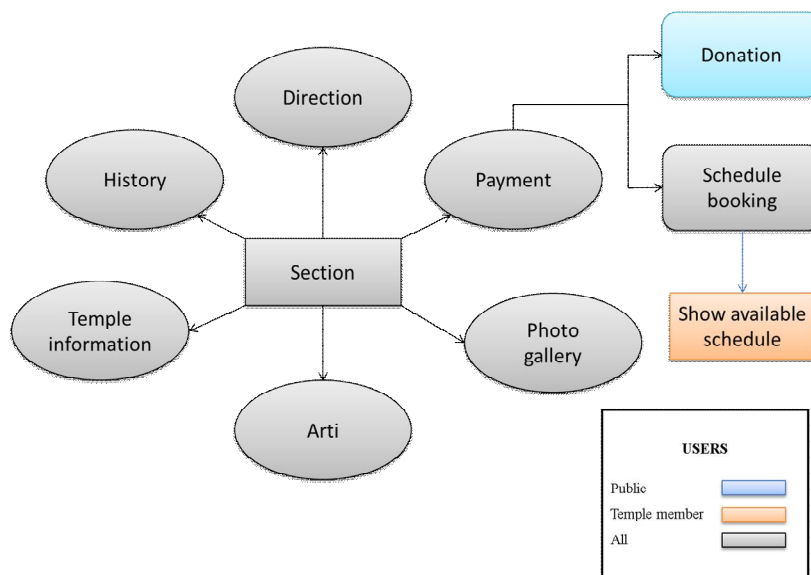
Fig. 1: Basic Structure of Sai Mandir App

B. Modules

As the first version of this app already contained the information about the temple, we need to focus on the main three modules for this app – Donation, Token Generation, and GPS location. Also, we are optimizing the size of the app by implementing the multi-language module through which we will be able to reuse the layout resources of the app. This will reduce the total number of layouts and activities required for the implementation of the app by 50%.

C. Donation

Using this module, people can donate money to the temple which will be useful for further development of temple. This module is implemented using Payment Gateway API. We searched for suitable payment gateway Instamojo. We provided necessary information and created an account and linked the bank account to the Instamojo account. We took API for Android platform and integrated with Sai Mandir App. Figure 2 shows the use of payment gateway as Donation module.
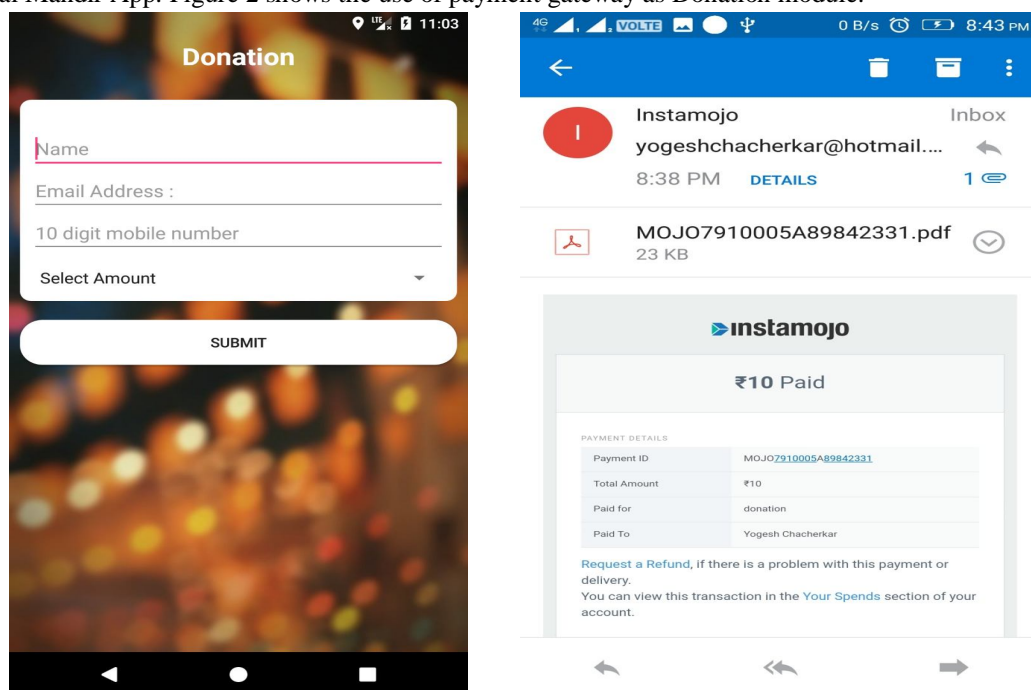

Fig. 2: Donation Module

D. Token Generation

This module is for management purpose. This is specially designed to manage the rush in the temple. People can generate their token for a particular time slot in next three days. A priest will attend the devotee associated with the particular token for a particular time to which the token is valid. This will allow the devotees to visit the temple without rush and systematically. To generate token, the user has to fill his/her details first in the app and then after submitting the details, the user will be taken to the payment gateway page through which user will have to pay Rs.10 to complete the token generation process. This page is opened in the WebView implemented inside the application and all the further operations for the token generation are performed inside this WebView. After the successful payment, the token is generated and the user is presented with the HTML page. The user is supposed to take a screenshot of this page as this screenshot will be further used as a token of the user. The screenshot contains details of the user which includes name, email, and mobile number. Also, the details representing the validity of the token which include the time slot and the date of the token. Fig. 3 shows Token Generation Module.
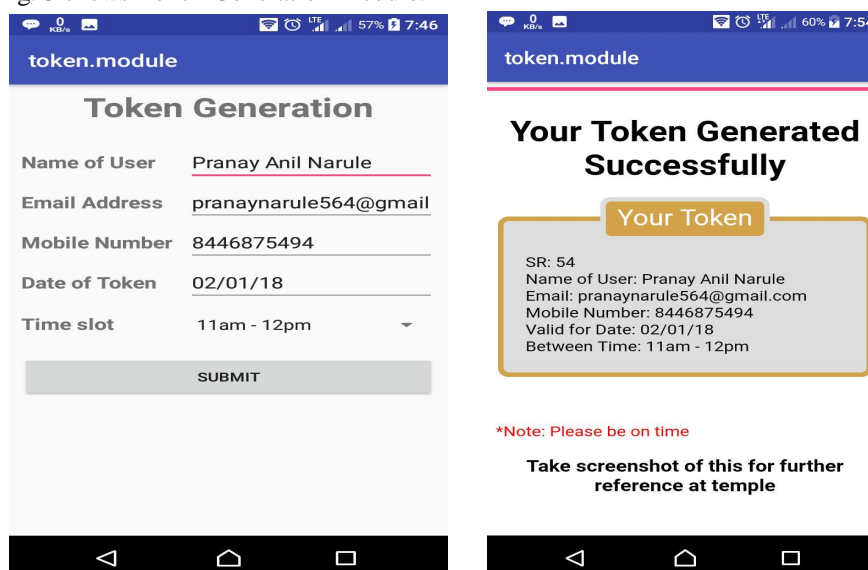

Fig. 3: Token Generation

E. GPS Location

The main motive behind this module is that the users can find the exact location of the temple on google map. The static geographical location is set in the app. When the user opens this module, it will show the exact location of the temple on the google map. The google map link of the Sai Mandir is set in the app. When the user clicks on the map button, the link is opened in the WebView implemented inside the app. The app asks the user for the permission to access GPS. After the GPS is enabled, the user will be able to get directions to the temple from his particular location. This will help the user to find the temple location easily. Fig. 4 shows GPS Location module.
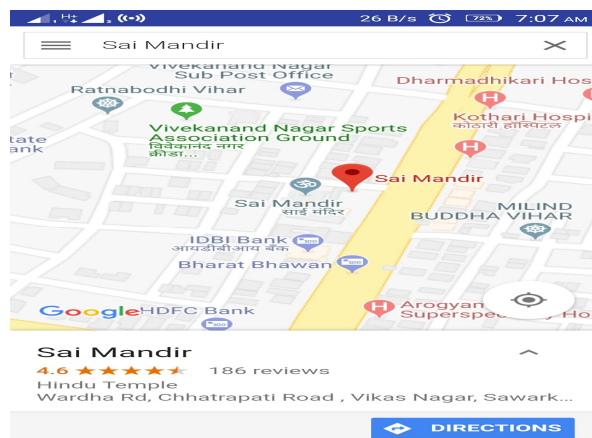

Fig. 4: GPS Location Module

F. Methodology
1) App Development process done on Android Studio with minimum API level 19
2) SMS, GPS and Network Access permission is included in Android Manifest file
3) Merchant key and Salt key is used for money transaction on payment gateway
4) Random hash code URL and 128-bit SSL encryption used for secure transaction

G. System Requirements
1) Java SDK
2) Android Studio / Eclipse IDE
3) PHP Admin tool
4) Payment Gateway provider (Instamojo)
5) Android Phone with API level 19 or higher
6) RAM 1GB

IV.CONCLUSIONS

Digital technology can be used in many ways to improve the outcome of the business. Payment gateway makes the online payment easy hence it is very beneficial for every software developers to integrate it into their project to gain financial support from the community for the future development of the project. Informative app act as an i-Brochure and many companies and organizations can use that for their promotion. This is the best and eco-friendly alternative to traditional paper-based brochures and can be easily distributed to the public. It also supports dynamic nature of contents.

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