WWW.IJRPR.COM

International Journal of Research Publication and Reviews

Journal homepage: www.ijrpr.com ISSN 2582-7421

Wedding Rings

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DOI: https://doi.org/10.55248/gengpi.4.923.49601

ABSTRACT-

A Wedding is a memorable and most valuable turning point in anyone life. In the past, weddings were more traditional and simple but now it has evolved and become more complicated. Nowadays people live a busy life style by working and people are used to it. people can't change their day today life easily even though, they have to celebrate their life events balancing all their work. On the other hand, wedding service providers find difficulties promoting their service to their customers. As a solution research team has proposed an android mobile application called "Wedding rings" In this application Users can manage and plan their weddings easily. The system capable of partition the budget into different categories of the wedding and find the suitable wedding service providers according to their budget and their desired location. To display wedding services Customers must register with the system and then only they can get vendor details. the system has supplied benefit to the vendors too. Vendors can market their service to registered users and both parties can discuss problems and information from the chat field. Android, Firebase, Google maps technologies were used to build the app.

Keywords- **Wedding Planner**, **budget calculator, best root, chat, advertising, GPS**

I. INTRODUCTION

Now a days wedding couples spend so much money and time on making the 'dream day' perfect and memorable. Therefore, planning a wedding can be one of the most fun stressful and time consuming period in anyone's life. There are two main different parties who find difficulties while planning a wedding, they are wedding service providers and the wedding couple. Wedding couple worries about Finding wedding service providers who will suit for their budget and location. Also Wedding service providers find difficulties while promoting their business and finding customers. Based on the above things, research team created some research questions.

- How to build and intelligent search function and an algorithm to find venders?
- How to build mobile device tracking GPS system?
- How to build Two versions of the app in customer mode and seller mode?
- How to Identify Customer needs?
- How to develop a chat system to communicate between customers and vendors?

The main objectives were to find the service providers for customers, it was automated through this app with a single button click. When they entered their location and budget app offer relevant registered services providers and their services. App can also show the distance to the service providers services location and the best route to the certain location. Service providers can promote their own business and professional affairs by adding advertisements. Also users and vendors can communicate each other for discuss problems and needs & allocate time for meetups.

II. Literature Review

A Survey on A Web Based Hall Booking Management System

Swati Dekate and the team have proposed this web portal. This research team has proposed a web portal for searching wedding hall or Lawn to access the computers. With the busy life style most people don't have time to visit each and every wedding halls or lawns and see if the place is good or bad. If the customers can't find products and services easily, they have to spend more time and money, sometimes they have to spend one or two months. Proposed system has designed to overcome the above situations. This system is a web-based project between potential customers or providers who sell bridal products and services. With the help of this web portal user can easily get the area wise listing of wedding halls and lawns with detailed information as well as the availability of the same for particular date. If there is a new owner who owns a hall or lawn can insert his details in to web

portal and system as a new member. In this web portal user can edit information and update date of booking and etc. Proposed system has five modules. They are user module, owner module, booking module, non-member module and member module. There are some extra functions in Member module such as The budget planner and promotions for the members. Customer can get proper estimation of budget, there is package facility which will be helpful for easily guess estimate of wedding budget and Provides packages such as travelling packages, live music, photography. K-nearest Neighbour Algorithm is used to do classification and registration in this app. [7]

Mobile App for a GPS-Based Location-Specific Communication System

This research paper is about an android based communication application which is called Ninja Messenger, which was done by Riya Banerjee and Yugo Takeuchi.in this research paper first part it talks about how ordinary text message services work and main problem they focus on is in order to communicate via text, one must have the receiver's contact information, such as their phone number or email address. Therefore, messages cannot be sent to an indefinite number of people as a solution they propose an android base app which can communicate nearby people using GPS technology. This app has 3 main features they are Shuriken mode which allow user to send a message to another user who is in their direct line of sight by pointing the mobile device in the direction of the intended receiver this method can use to chat with a stranger without providing personal info. Noroshi mode which allows user to send same message simultaneously to the users who in same radios which will helpful to chat in a class room or an office. Makibishi mode in this mode, after the message is typed, the sender directs his or her mobile device at the ground and receiver will receive it. Android studio has used to build this app and main language used for coding is java with xml which was designed to build GUI. [1]

Location Based Personal Task Reminder System Using GPS Technology

This paper based on location-based task reminder system. This system will reminds the user about the location when he/she enters within alert range of the predefined location and it is an android based system The main objective of the research is to develop a GPS (Global Positioning System) based application to handle the following requirements: to provide the alarm to the user when he/she reaches near the preselected destination, to retrieve the users' current location geographical coordinates, to allow the users to create the reminder for their target location and save that reminder to the list, to allow the users to delete and edit their reminders in list. Based on the saved location, the alarm will ring automatically and the reminding task detail will display when the user reaches within the target location. Haversine formula use to get the distance between the user current position and the destination. This is basically developed for travellers. [2]

Collaborative event planning system

This research paper is about a web-based event planning app which was done by Jennifer L. Burka.IT is focused on all the accepts of event planning. As the problem it indicates that current event planning systems limited to special aspect of event planning or specific types of events and no method to connect consumers and vendors in all stages of event planning or share their information, as a solution Collaborative event planning system has introduced. This application conations following features, App can provide recommendation to host co-hosts and participant according to the type of event. It provides and interface to communicate between hosts and participants such as creating voting events, future events, share travel plans. There is a location polling method. IF the user role is organizer, he can add a location and display final location and if the user is not an organizer, he gets only potential location Also it provides features such as check lists, notifications, reminders which will be helpful to all the parties who participate the event. [3]

III. Research Methodology

"Wedding Rings" is an app which is designed for the use of common people and may have lots of user interaction, Considering the fact research team used to agile methodology to developed in successful way. Agile methodology is way more forward than waterfall methodology.

Figure 1: Scrum Framework

The research team used scrum framework because it can employ various processes and techniques, rather than a process, or a technique for building products. Project features were divided among team members. Each function has planning, analysis requirement, testing and review. Each member completed the work parallel. Finally, after all the tasks completed on given time frame, Components were integrated as a one system.

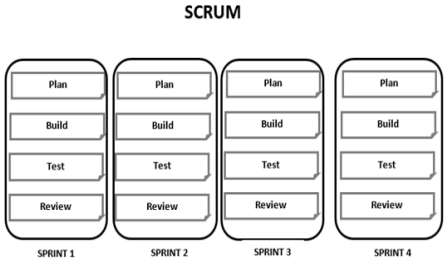

Figure 2: Scrum sprints

The team mainly did their functions as a sprint in the following steps.

- Plan
- Build
- Test
- Review

Planning

In planning phase each team member got one function to take actions to planning and controlling the development of the proposed system within specified time frame.

Each team member listed down every desirable outcomes user expect from the product. Within the Given time and period team member searched different research papers according to specified function. And clearly identified the project objectives to selected functions.

Build

Android platform was used to build the user android application which interacts with the smart device. Functionalities of the whole system should be available to the user all the time without having a time restriction. Simplify UI design by limiting animations and transitions.

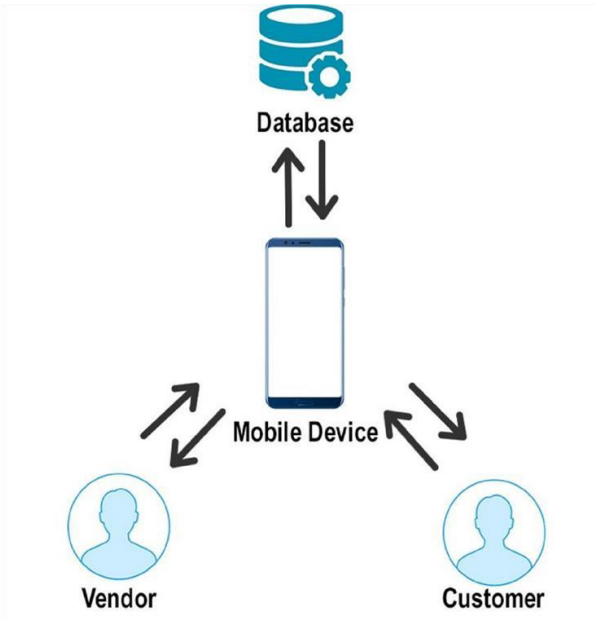

Figure 3: High Level Architecture Diagram

Interface layouts for the android mobile application was also designed in this phase. These layout designs were designed using Adobe Photoshop. Team tried to design interface in user-friendly manner, then user will be able to operate system using less effort. Interface Colour combination decided to made application more attractive and Professional.

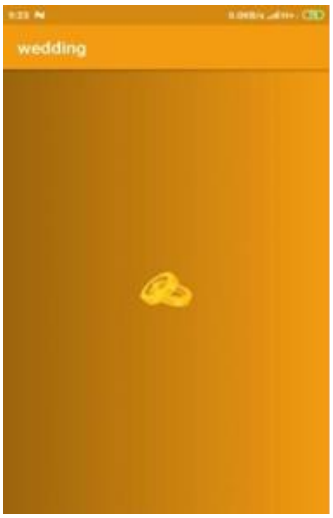

Figure 4: Main Interface

Figure 5: Chat Interface

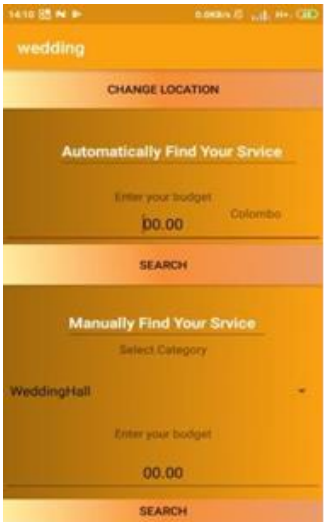

Figure 6: Budget Interface

Figure 7: Map Interface

Figure 8: Vendor Interface

Android Studio IDE was used to program wedding Rings mobile application. Java was the main language used for programming. Each team member used JSON library to exchange data because it is light weight text-based open standard designed for human-readable data interchange.

Testing

Testing takes an essential part on developing a software. It is very important to hold on to testing as it measures the quality of the system. In the scrum methodology testing was carried out from sprint planning, while Sprint planning each team member acted as a tester. In the sprint testers focused on testing the software individually as units but it is a responsibility to ensure that the new codes are working properly with previously developed codes and functions because of that research team did the regression testing.

Finally, research team did an Acceptance testing to ensure that the product has met the customer requirements.

Review

The Sprint review provides the information on the system progress at the end of a sprint. At end of a sprint research team reviewed the project. In review including the supervisor All the team members got together and discussed what has been achieved and what has not and then build the next product backlog according to the current progress.

IV. Research Findings and Evidence

Difficulties finding service providers in different categories which takes lots of time and money just to find them and which can be exhausting activity for the wedding couple.

Difficulties while Advertising Services to specific crowds. Sometimes vendors might have customers desired services but both parties may not have a way to find each other.

Limitations on existing wedding planning systems as theirs no consistent way of matching service providers & connecting them.

V. Conclusion and Future Works

By the end of the research project, research team aimed to determine the successful effective system to the end user. Before developing the system team had to refer many related research papers to identify the existing systems related to the topic. After completing the literature review team started to build the app.

First objective was to build the budget planer which allows users to add their budget which they are willing to spend for the whole wedding and the app automatically divide the budget in to ten categories and suggest the available service providers.

Second objective was to develop GPS module which identify all the nearest services in a certain amount of area according to user current location or user desired location.

chat capability was the third objective of the system which allows various users who are logged in to the system able to contact customers through the app so they can communicate about the prices and negotiations

Last objective was to build the vendor module which allows vendors to register to the system to add their services and advertise their service to the customer using customer location.

From the developed system two parties will earn benefits they are the service finders and he service providers.

Main benefit of the app is it help users to save their time they don't have to search services through the internet or from their relatives, this app consists of service providers which are relevant to the field and they will save money, they don't need to go and meet service providers to get their service details. The market place is built through the app in this way couples will save money. Couples also can get an idea about how much they will need to spend for their wedding by looking at the data and they can get rid of unwanted expenses. Through the app vendors also get a chance to have more customers to their business even a newly established service providers can register to the app and advertise their service so the app is a win-win module to both service providers and customers.

The system consists of some limitations. App is built for android operating system so the app will only compatible with android devices.

System does not contain a method to book services and remind task to the customers and vendors.

Users need an active internet connection to connect through the system's database and to do the search by user's current location users have to turn on the location services in the device. App was built only in English language so the user should have a basic English knowledge to use the app.

The research team has completed each functions within the given time period. However, since the system can be evolving, it will be possible to incorporate the following features into the future in an efficient manner.

- Facility for online transactions

- Compatible with Sri Lankan main languages
- Add task reminder & task manger with real time notifications
- create intelligent Advertise service which specially advertise services to the user's likes and dislikes.
- create a rating system and add a review option to vendors so the customers get clear idea about the Vendors service.
- Add payment method to book services.

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