Sri Lanka Institute of Information Technology

ONLINE BUS BOOKING SYSTEM

Project Proposal
Project Design and Management 2015

Project ID: PDM_15_06

Submitted by:

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……….09/07/2015……...
Date of submission

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1. Introduction

Sri Lanka is most important country in Travel Industry. Now a day's more than 75% people use to travel by bus. However most of people who lived Sri Lanka they don't know the details of bus stops, bus roots, bus Schedule etc… because of that they facing many inconvenient. So we decide to create Android application called **Online Bus Booking System.**

Online Bus Booking System is an integrated Android Application developed for Travelers in Srilanka. The main aim of this project is to help the people Book Bus Ticket through online. It makes all operations easy and accurate. The online platform makes travel management easy by handling passenger requests and providing services for the passengers located at different parts of our country.

This Android application is implemented to booking facilities easier which display list by a simple click and also make inquiries very quickly. This system will provide time consumption, easy access, and user friendly.

1.1 Problem Specification

Finding Srilanka`s roots and bus stops are very complex for Passenger. If passengers want to buy a ticket they need to go Bus Stations or Booking centre so their wasting time and Energy.

Passenger can reach their destination in different routes. There are so many transportation methods available in the same destination. So they are confused and some time they are facing some security threads.

Not only the passengers it takes more time for administrator maintain all records for the employee's manually

Cannot handle the maintenance cost Parallel.

1.2 Solution Outline

Bus Booking System is an integrated **Android application**. Through our system can solve many problems:

- Easy working interfaces and modules for users
- It will be helpful for budgeting and planning for a Passengers.
- They can get idea about specialties of each places.
- Easily find bus root and bus stop.
- Passengers can easily view the time schedule details.
- Passenger can be get travelling information on Travailing agents and his own android application.

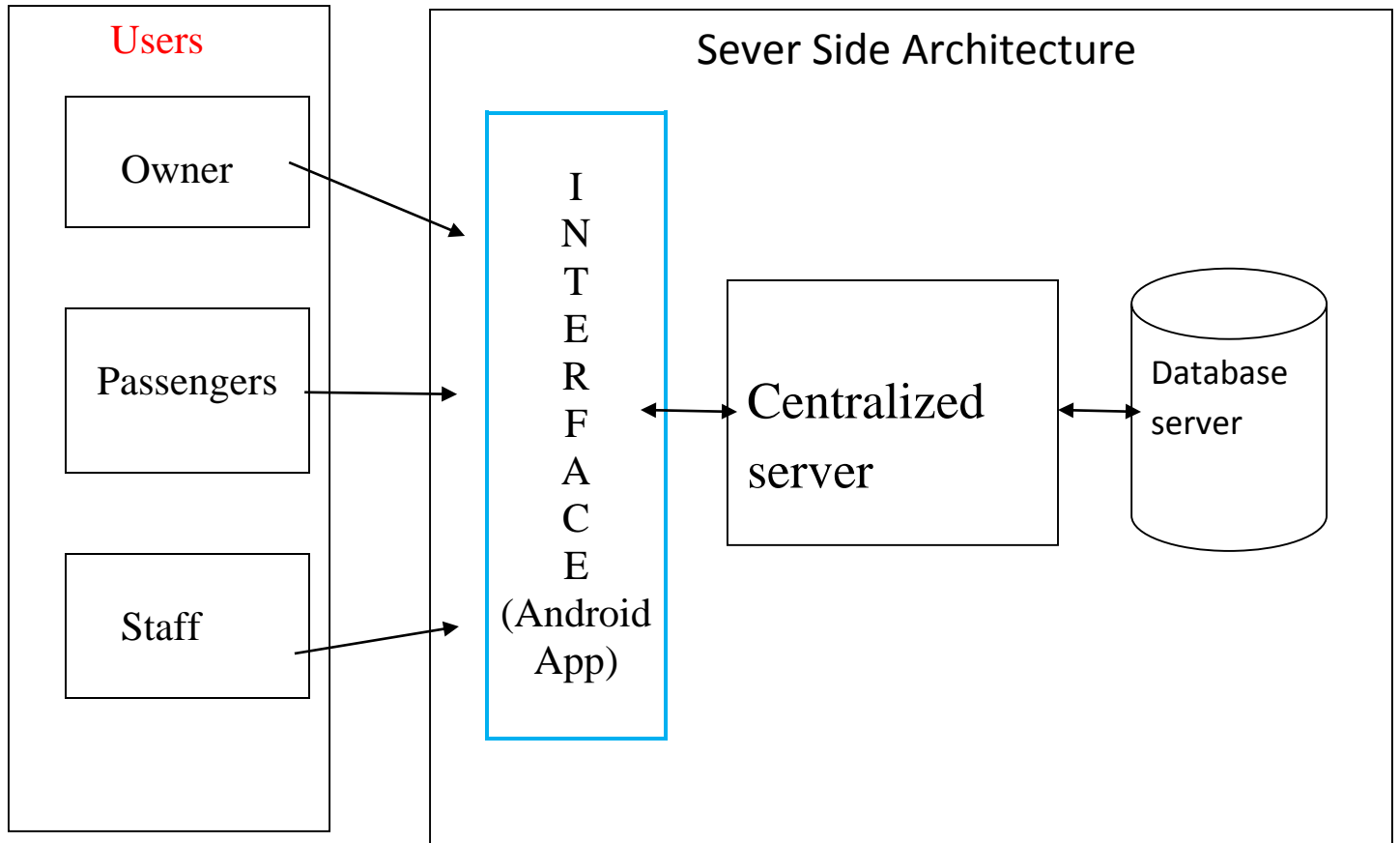# High level architecture diagram for the proposed system

Figure 1 High level architecture diagram for the proposed system

2. Objectives

- It can be one of the best guides for the Travelers.
- Easily can use this app in smart phones.
- It can reduce Travelers valuable time.
- Travelers can select their favorite position in the bus them self.

3. Literature Review of existing systems

We started this project I try to find information about related online ticket selling companies through internet

http://www.firstbus.co.uk/ (web site in UK)
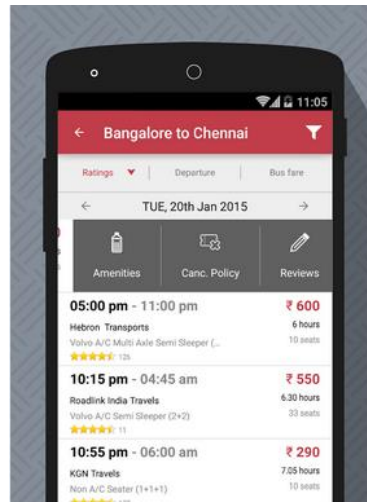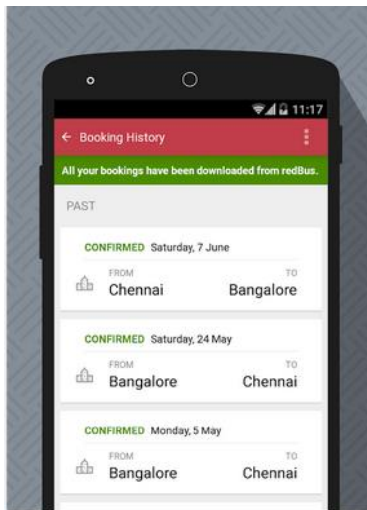
http://www.greyhound.com/ (web site)

So we are going to make Android App .It is call online bus booking system which are not in Srilanka. In current situation several bus booking systems available in web base. First time we try to build an **Android application** for Srilanka.

Existing android app = Red bus.in   (online bus booking system in INDIA)

So there functions are

1. Booking Tickets
2. Search Roots
3. Safe payments

So there we introduce many new features

1. Seat booking
2. Bus booking
3. Safe payment handling

4. Features of proposed systems

❖ Administration
  Bus management
  Time Table
  Store Maintenances detail

❖ User Profile
  User Registration
  User login
  Forgot password
  Notification

❖ Booking
  Seat booking
  Bus booking

❖ Payment Module

5. Novelty

There is a no Android app for online bus booking system in Srilanka. So we are going to develop an Android application.

6. Functions

Name	Student ID	Function
Piumal Dinuka W.	IT13087234	**Booking Management:** ✓ Seat booking (Allocate Passenger Required seat) ✓ Bus booking ✓ Notification (booking is done sending sms)
Kirshanth S.	IT13044664	**Administration:** ✓ Bus Management (add,edit,delete) ✓ Login & Registration ✓ Time Allocation (Bus time schedule)
Sahan Sachithra	IT13110130	**User Profile & Transport:** ✓ View user profile ✓ View booking History ✓ Manage luggage's (Allocate bus, Calculate amount)
Sivalkar T.S.	IT13046880	**Bus maintenance:** ✓ Cost Management (Add maintenance cost each bus Ex: Fuel, cleaning View the maintain cost each bus) ✓ Hardware Replacement charge Calculation ✓ Report

7. Work Distribution

	Project Step by Step	Estimated time [Days]	Beginning Date	Finishing Date
	Initiate Project			
I.	Analyze the problem	4	28/06/2015	01/07/2015
II.	Analyze the solution	4	02/07/2015	06/07/2015
III.	Analyze the requirements	3	07/07/2015	10/07/2015
IV.	Finalize scope	2	11/07/2015	13/07/2015
	Project plan			
I.	Define the project works	3	14/07/2015	17/07/2015
II.	Divide the projects among members	2	18/07/2015	20/07/2015
III.	Plan Project Schedule	1	21/07/2015	22/07/2015
IV.	Finalize Project Proposal and Approvals	2	22/07/2015	24/07/2015
	Design and Implementation			
I.	Design the frontier and formats	7	24/07/2015	01/08/2015
II.	Define functions and activities	5	02/08/2015	07/08/2015
III.	Design prototype	7	08/08/2015	15/08/2015
IV.	Integration	3	16/08/2015	19/08/2015
V.	Unit testing	3	20/08/2015	23/08/2015
VI.	Test the prototype	5	24/08/2015	29/08/2015
VII.	Finalize prototype	8	30/08/2015	07/09/2015
	End of the Project			
I.	Finalize works	10	08/09/2015	24/09/2015

7. Technology and software tools

Conclusion

Online Bus Booking app is an Android based system which will Help to the passenger .Our target is to provide an App which provides all those facilities to people can be saved the time and energy. Easily can get this app from Android market .anyone can download it and use it easily because it is user friendly.

Hence the quality of service of the Travels can be improved through this Application.