
SoftZone

Bingo
Software Requirements Specification
For Android Application

Version 1.0

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Bingo	Version: 1.0
Software Requirements Specification	Date: 08/Jul/14
SRS submission	

Revision History

Date	Version	Description	Author
08/Jul/14	1.0	Software Requirements Specification of the Bingo Application	H.S.R. Dharmasena

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Software Requirements Specification

1. Introduction

Software Requirements Specification document provides an overview of the functionality of Bingo application which uses android with GPS technology to get daily updates from nearby locations. This document includes the purpose, scope, definitions, acronyms, abbreviations, references, and overview of the SRS.

1.1 Purpose

This document fully describes the external behavior of the Bingo application. It also describes nonfunctional requirements, design constraints, and specifications of the Bingo application.

1.2 Scope

Bingo is an innovative smart phone app uses android with GPS technology which helps user to get daily updates such as deals/discounts from hotels, restaurants, cafes, movie theatres, super markets or virtually anything near according to user's current location.

1.3 Definitions, Acronyms, and Abbreviations

- SRS – Software Requirement Specification
- GPS – Global Positioning System
- IDE – Integrated Development Environment
- Android – is a mobile operating system based on linux kernel that is currently developed by google
- Eclipse – is an integrated development environment

1.4 References

- http://en.wikipedia.org/wiki/Global_Positioning_System
- <http://developer.android.com/about/index.html>
- http://en.wikipedia.org/wiki/Eclipse_%28software%29

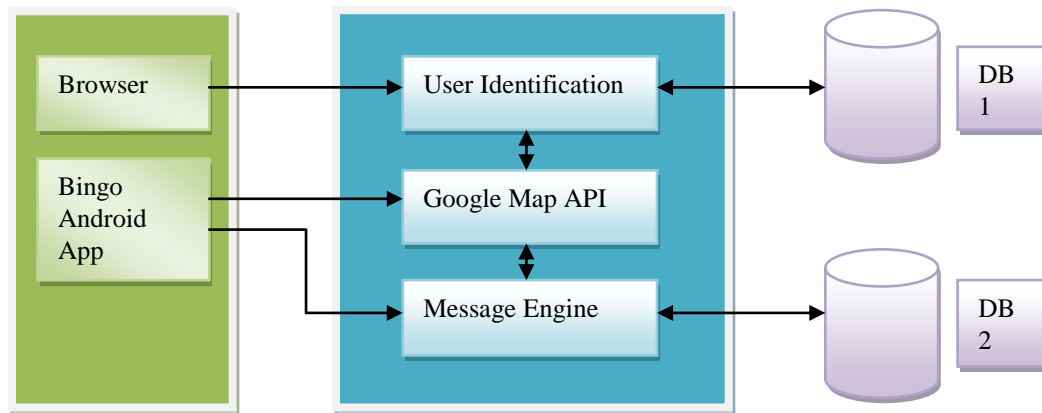
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2. Overall Description

- Product Perspective

People are always looking for great deals around them wherever they stay or traveling, but still there are no flexible solutions to meet their demands except traditional method such as email marketing, social media ads etc. It is difficult and irritating to check emails for deals around them, but if we can give updates automatically about deals to our smart phones wherever we travel, it is really awesome.

There is a website associate with Bingo application. First user should register for an account with email address and mobile phone no. Then need to select whatever wants to receive, such as deals or coupons. After that user can install android app to smart phone and login with credentials from site registration. Then wherever user goes, according to location will receive nearest deal alerts via app.



- Product Functions

Product should be able to provide accurate responses quickly
Interfaces of the Bingo application and the website should be user friendly

- User Characteristics

User should be familiar with the basic functionalities of an android device.

- Constraints

GUI and website in English language
Only registered users will be authorized to use the service
Users should install Bingo app on their android devices
Android device should have GPS technology

- Assumptions and Dependencies

Users are familiar with the functionalities of the Bingo application
Android device should have GPS technology

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3. Specific Requirements

3.1 Functionality

3.1.1 Register for an account from the website

User can sign up for an account from the website. User need to enter username, password and mobile phone number

3.1.2 Login to the account

User can login to their account using username and password

3.1.3 Select whatever user wants to receive from the site

There are several types of deals or coupons available such as Hotels, Super markets and Cafes. So the user can select what kind of deals he/she wants from the website.

3.1.4 Receive deals

User can receive deals from nearby locations by clicking send deals button in the Bingo application.

3.1.5 Get the nearby locations

User can get the information about nearby locations such as distance, reviews, address, and mobile number from the Bingo application.

3.2 Usability

3.2.1 Required training time

Training time for a normal user about 2 hrs and training time for a power user about 20 minutes

3.2.2 Help Information

Application should give help information to the user so the it can be handle easily

3.2.3 Error Messages

Application should give error messages and how to recover from error when error occurs

3.3 Reliability

3.3.1 Availability

Server which website is hosted should be available at least 98% since users need to register via the site.

3.3.2 Mean Time between failures

Mean time between failures should more than 5 months

3.3.3 Mean time to repair

Mean time to repair should be less than 1 day

3.3.4 Accuracy

User should get accurate information about nearby locations and accurate deals from those sites. Accuracy should be more than 95%

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3.4 Performance

3.4.1 Response time in website

Response time in website should be less than 1 second. User should be able to register, login and select types from site as quickly as possible

3.4.2 Response time in Bingo application

Response time in Bingo application should be less than 5 seconds. Deals should be sent to the application within 5 seconds

3.4.3 Concurrent Access

At least 100 users can be able to concurrently access to the website

3.4.4 Resource utilization

Application should be consume less battery power. Resource utilization should be maximum

3.5 Design Constraints

3.5.1 Android

Platform of the application is Android

3.5.2 Java

Application uses Java as the default programming language

3.5.3 Google Map API

Location identification is done using Google Map API

3.5.4 Eclipse

Eclipse is used as IDE

3.6 Interfaces

3.6.1 User Interfaces

User interface of the bingo application is easy to use.

- Main Interface - Application
Main Interface of the Bingo Application has a button called 'Send Deals'
- Nearby Sites Interface - Application
Show nearby sites with detailed information
- Sign up Interface – Website
- Login Interface – Website
- Interface for Select deals – Website

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3.6.2 Hardware Interfaces

Minimum Requirements

- Smart phone with android OS higher than version 2.2 (Froyo)
- Smart phone with GPS technology

3.6.3 Software Interfaces

- Google Map API

Google Map API is used for identify the location and the nearby sites to the user.

- Web Server

To host the website associated with Bingo Application.

- Database Server

There are mainly two databases. First one keeps records of the user and the second one keeps records of the sites.

- Development End

Java, mysql, php, android (OS)

3.6.4 Communications Interfaces

- User's location can be identified by using GPS technology
- Message sending happens using internet (HTTP/HTTPS) protocol

3.7 Licensing Requirements

No licensing enforcement requirements or other usage restriction requirements that are to be exhibited by the software.