**SOFTWARE REQUIREMENTS SPECIFICATION**

**CALENDAR**

**VERSION: 1.1**

**By**

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**SECTION 1: OUTLINE**

* 1. PURPOSE:

This document deals with developing an calendar application that is compatible to run with Android mobile OS. In this application we will be performing query, insert, update, and delete operations on calendars, events, attendees, reminders, and so on.

* 1. TEAM DESCRIPTION:

This project is a Teamwork, developing the application in Android platform by a team of four members ShravyaGaddam, PranithaMadduri, Sai Gandham, Anandsaichinthamreddy with equal contributions in the project.

1.3 USER CHARACTERISTICS:

Users who have a mobile phone or similar device and who is capable of running Android mobile OS and GPRS will be able to use this application to manage their day –to- day tasks and reminders.

**SECTION 2: ASSUMPTIONS AND DEPENDENCIES**

2.1 ASSUMPTIONS:

The requirement specification is likely to be affected by changing capabilities of the Android OS and also with the change in requirements of the users.

2.2 DEPENDENCIES:

This application mostly depends on Android OS, so we can expect changes in the Calendar application as the Android API changes.

**SECTION 3: REQUIREMENTS**

3.1 FUNCTIONAL REQUIREMENTS:

Here we will develop a local calendar with to-do list and other properties like highlighting special events in different colors and adding features like zoom in/out, scroll up/down as necessary.

The functional requirements for the calendar are as follows:

* + 1. Views:

Monthly view:

* Select the year and month.
* Show all days in a month.
* Each month shall be selected to view the entire events list of it.
* User shall be able to delete events one by one or all at a time for the selected month in a selected year.

Weekly view:

* select year and month for viewing weeks of the month.
* Show all days in a week.
* Option to view all the events of the week.
* Able to add/delete event for the selected week.

Daily view:

* Select year, month and week for viewing a particular day.
* Option to view all the events in that day.
* Able to add/delete the event in that day.
  + 1. **Events**

a.Adding event for the selected date

* Option to select date and time.
* Option to have event start time and end time.
* Show time conflicts when adding events.
* Add weekly periodic events.
* User shall configure the notification method for the selected event
  + This notification method should override the global settings
  + User shall have option to snooze the notification, which will be reminded again in 5 minutes

b. User may delete an event or the entire events for the selected date.

c. User may modify the following properties of an event

* Modify date and time
* Modify alert style
* Modify content of the event

d. Event Alert

* option to configure the alert style
  + choose the music to play.
    1. In case of absence of the music, system shall play the default music
  + User shall have option to choose.
    1. Only music
    2. Music and vibrator
    3. Volume level of the alert style.
  + option to highlight different events
    1. allow the user to choose a color for an event.
    2. prioritize the events based on color.
    3. allow the user to highlight the events based on their importance.

e. Event sharing

* + allow the user to share the event with other users.
  + allow user to share the event in the form of a link with other users over the

internet.

* + Check whether the user has gained permission to share the event.

f. Other properties:

* + Allow the user to highlight holidays and weekends using special colors.
  + Allow the user to zoom in or zoom out ,if necessary.
  + Allow the user to scroll up/down, if necessary.

**SECTION 4: SOFTWARE AND HARDWARE SPECIFICATION**

**4.1 SOFTWARE SPECIFICATION:**

1.Android Studio

2. Java Runtime Environment

3.Andriod Operating System greater than 4.0 version

**4.2 HARDWARE SPECIFICATION:**

1.Any mobile that runs Android OS

2. Memory at least 1GB.

**SECTION 5: REFERENCES**

http://developer.android.com/guide/topics/providers/calendar-provider.html