**SOFTWARE REQUIREMENTS SPECIFICATION**

**CALENDAR**

**VERSION: 1.1**

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**SECTION 1: OUTLINE**

* 1. PURPOSE:

This document deals with developing a calendar application which is compatible to run with Android mobile OS. In this application we will be performing a 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 which is running using Android mobile OS and 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 based on the 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:

The main scope of the project is to develop a local calendar with the 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/modify an 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/manage the event on a particular 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