Software Requirements Specification

For Ringtone Scheduler written by:

Kevin Cherrington

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| **Identifier** | **Functional Requirement** | **Demonstration Scenario(s)** | **Success Measure(s)** |
| 1 | The application **shall** be able to silence the mobile phone. | Turn on the ringtone and create an even that will silence the ringtone. | The ringtone is set to silent. |
| 2 | The application **shall** be able to turn the ringer on, on a mobile phone. | Set the phone to silent and create an event that will turn the ringtone on. | The ringtone turns on after the event is executed. |
| 3 | The application **shall** be able to turn on both the ringer and vibrate at the same time. | Set the phone to silent and create an event that will turn on the ringtone and vibrate | The ringtone and vibrate will turn on after the event is executed. |
| 4 | The application **shall** be able to set the phone to vibrate (no ringtone). | Set the phone to silent and create an event that will set the phone to vibrate only. | The phone is set to vibrate and the ringtone is off. |
| 5 | The application **shall** be able to schedule an event when the status of the ringtone is changed. | Schedule an even that will change the ringer state. | The state of the ringer will be changed when at the scheduled time. |
| 6 | The application **shall** allow a user to create new events. | Create a new event. | The event is created and saved to the database. |
| 7 | The application **shall** allow a user to delete events. | Delete an event. | The event is deleted and no longer visible to the user. |
| 8 | The application **shall** allow a user to save a title with an event. | Create a new event with a title. | The title of the event is saved with the event. |
| 9 | The application **shall** execute an event at the same time each week until it is deleted. | Find an event that has recently run and make sure that its next run date is one week from when it last ran. | The next run date is scheduled for one week from the last run date. |
| 10 | The application **shall** not execute an event that has been deleted. | Delete an event scheduled to run in the next few minutes. | The event will not be executed anymore. |
| 11 | The application **shall** allow a user to schedule the minute and hour of the day that an event will occur (AM PM included). | Schedule an event and set the time that the event is to be executed. | The minute and hour will be saved with the event. |
| 12 | The application **shall** allow a user to schedule an event for one or more day(s) of the week. | Schedule an event and select one or more days for it to run. | The days the event is scheduled to run will be saved with the event. |
| 13 | The application **shall** allow a user to set the ringtone volume for an event. | Create an event to change the ringtone volume. | The ringtone volume is changed when the event is executed. |
| 14 | Events **shall** not be lost when the phone is rebooted. | Create an event and reboot the phone. | The event will be present when the phone boots. |
| 15 | The application (service) **shall** be able to automatically start when the phone boots. | Turn off the phone and turn it back on. | The application will be running when the phone boots (look in the running processes). |
| 16 | The user **shall** be able to view previously scheduled events that haven’t been deleted. | Launch the application. | The events will be visible once the application has launched. |
| 17 | The application will display an icon on the status bar. | Start the service. | Look for the icon on the status bar. |
| 18 | If the phone isn’t in low power mode a toast will be shown when the ringtone is changed. | Create an event to change the ringtone. | A short message will appear on the phone notifying of the change. |
| 19 | The application may be able to set the correct ringtone after the phone has been turned back on (i.e. an event was missed while the phone was off and then executed when the phone was turned back on) | Schedule an event and turn off the phone before and during the time when it is to be executed. | The event is executed after the phone is turned back on. |