



# Requirements Document – Team 1

Version 3.a

## 1 Introduction

The purpose of this document is to define the requirements for the proposed WahooToDo! smart-phone application. This Android focused application aims to be a simple mass market to-do list solution that will assist the every-day connected person in organizing their every-day activities. In other words, the software context is anyone with access to an Android device who has downloaded the WahooToDo! application.

WahooToDo! supports multiple users where tasks can be added or edited by the named user. The task lists are kept separate, where ones tasks are viewable but not combined with the tasks of other users. WahooToDo! can help individuals, work groups, or families improve their time management skills through better organization and reduced procrastination. This proposed to-do list solution empowers its users to prepare themselves for the upcoming hour, day, week or month by allowing them to easily enter, modify and keep track of tasks in a prioritized fashion. WahooToDo! enables people in all walks of life to focus on those important “blue chip” tasks while also simultaneously reminding them of those nagging but less important “white chips.”

As explained on the application initiation screen, the “Wahoo!” in the name represents the satisfaction of getting things done and the fun and relaxation that awaits those who stay on schedule.

The beta version of this application will not be do any of the following:

- Support voice entry of task
- Support iOS
- Be emulated in a web environment
- Allow deletion of Users
- All changes to User Names
- Combine the tasks lists of different users
- Allow entry of specific due dates by hour and minute
- Launch clock/alarm apps
- Launch automatic email or calendar reminders
- Launch text message reminders
- Separate tasks by category

## **2 User Requirements**

### **2.1 Software Interfaces**

The WahooToDo! application is to be compatible with Android operating system version 2.3 and higher. All smart-phone devices supporting this operating system will be able to run the software program. The software is developed using the Android SDK on the Eclipse IDE (Kepler Service Release 1) for Java Developers using the language supported by the Android development environment.

The Team 1 WahooToDo! Application will make use of Application Framework services and Android Native libraries.

The expectation is that each software component is open source. The software is to operate on both AT&T and Verizon smart-phones such as the Samsung Galaxy line, which as stated above, run on the Android operating system. It is understood the device has typical hardware/software constraints.

### **2.2 User Interfaces**

Navigation within WahooToDo! is accomplished via simple menus which can be triggered by the android touch-screen interface and the device analog buttons. This is the main way in which the user will interact with the interface. This application will be intuitive and responsive and contain buttons, text and simple graphics that can easily be interpreted by the user so they understand how tasks are prioritized and what options are available to them at any given point in the process to add or delete users or add, edit, check off (complete), delete, and view tasks.

## 2.3 User Characteristics

The intended use of the WahooToDo! to-do list application are people of all ages in all walks of life that utilize an Android based smart-phone and are familiar with simple navigation within their device.

## 2.4 Assumptions and Dependencies

- The system relies upon a fully powered device
- The Android Operating System must be 2.3 or higher

## 3 System Requirements

The Android Operating System must be 2.3 or higher

The recommended Android processing speed for the Wahoo!ToDo app is 1Ghz CPU or higher.

### 3.1 Functional Requirements

The WahooToDo! to-do list application is a solution that is to enable users to effectively and efficiently manage their daily activities. An activity equates to a task the user desires to accomplish and is thus entered within the application.

The user needs are as follows:

Req. #	Description	Priority	Optional or Mandatory
1	The ability to add a user and once saved the new user is ready to add tasks	H	M
2	The ability to add a task to a list	H	M
3	The ability to change/modify a task entry	H	M
4	The ability to delete a task from the list	H	M
5	The ability to check off an item in the list as completed. A checkmark should be displayed within the list when this action takes place.	H	M







<b>6</b>	Completed tasks are not to be automatically deleted	<b>H</b>	<b>M</b>
<b>7</b>	Completed Tasks can be hidden from the list and retrieved when needed regardless of task status.	<b>M</b>	<b>M</b>
<b>8</b>	Tasks can be prioritized as high, medium or low when adding to list.	<b>H</b>	<b>M</b>
<b>9</b>	The software should support a task name of 25 or more characters with the understanding not all characters may display.	<b>H</b>	<b>M</b>
<b>10</b>	The software should support task notes of 75 or more characters.	<b>L</b>	<b>O</b>
<b>11</b>	Users can specify task name when adding a task	<b>L</b>	<b>O</b>
<b>12</b>	Users can specify task due date when adding a task	<b>H</b>	<b>M</b>
<b>13</b>	When adding tasks, a default due date of two days out is assigned to the task unless overwritten by the user.	<b>M</b>	<b>O</b>
<b>14</b>	When adding tasks, a default priority of "Medium" is assigned to the task unless overwritten by the user.	<b>M</b>	<b>O</b>
<b>15</b>	As tasks are entered the Save icon can be pressed to ensure the new task is saved to the list.	<b>H</b>	<b>M</b>
<b>16</b>	Task modifications can be canceled	<b>H</b>	<b>M</b>
<b>17</b>	No matter where the user is within the application, they can get to the User List where they can select to either view the task list or add a task for that user.	<b>M</b>	<b>M</b>
<b>18</b>	As tasks are modified, the software should automatically save the edits made without the need for the user to click on the save icon.	<b>M</b>	<b>O</b>
<b>20</b>	The application support multiple end users and provides a listing of all added users	<b>M</b>	<b>O</b>
<b>21</b>	The application allows the user name to be selected so that tasks for that specific user can be added or viewed.	<b>M</b>	<b>O</b>

<b>23</b>	The task list is limited to only show activities for a single individual.	<b>H</b>	<b>M</b>
<b>24</b>	This is to be an application for Android devices using the Android operating system of 2.3 or higher.	<b>H</b>	<b>M</b>
<b>25</b>	The application logo should appear as the launch icon for the TODO List within the Android Applications window	<b>L</b>	<b>O</b>
<b>26</b>	There is an initial screen that appears after the software download that provides the application name and its purpose.	<b>L</b>	<b>O</b>
<b>27</b>	Congratulate user when they check off a task as completed with an audio message such as brief music melody, e.g. Ta-da, or an audio message saying "Wahoo!"	<b>L</b>	<b>O</b>
<b>28</b>	Provide count of tasks for today when application is opened	<b>L</b>	<b>O</b>
<b>29</b>	Export todo list to calendar	<b>L</b>	<b>O</b>
<b>28</b>	Upon due date for a task that has yet to be completed, an automatic reminder text message is sent.	<b>L</b>	<b>O</b>
<b>30</b>	Customizable tasks tabs which separate task by activity type such as Chores, Shopping, Exercise, Work,	<b>L</b>	<b>O</b>

- Users can execute the WahooToDo! application from within their application list menu, the application menu bar or within the application quick launch area of their mobile phone by simply clicking on the WahooToDo! Icon:







- Other simple touch navigation buttons will be available in the application. Illustrated below are examples of designs that could be utilized within the application. Usage of these icons is optional:

					
Movement between the to-do list functions	Add	Save	Cancel	Open Task List and filter out (Hide) Closed	Delete

- Task priority will be indicated using the following images:

		
High Priority	Medium Priority	Low Priority

#### ADD TASK Graphics

			
Add Task & View Task	Priority Selector	Date Selector	

## **3.2 Non-Functional Requirements**

- The solution should be intuitive - User documentation to be provided
- System performance – The program shall respond promptly and align with the users normal android operating environment.

### **3.2.1 SOFTWARE QUALITY ATTRIBUTES**

- System reliability will be determined in software testing
- Usability will be validated during software testing