Software Requirements Specification

for

CWRUtility[1]

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Version 1.0

KOALAA Development

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[1]Working title

Contents

Revision History

Name	Date	Reasons for Change	Version
Kuster, Long, Ordiway	9/22/2012	Initial Draft	1.0 draft 1

1.   Introduction

1.1.   Purpose

This Software Requirements Specification describes the software functional and nonfunctional requirements for release 1.0 of CWRUtility. This specification document is intended for the solu use of the members of the project team that will implement and verify the correction functioning of the system. Unless otherwise specified, all requirements documented here are high priority and committed for release 1.0.

1.2.   Business Objectives and Success Criteria

BO-1: Reduce difficulty experienced by new students due to unfamiliar CWRU environment.

BO-2: Increase general efficiency of CWRU students and faculty by facilitating their uses of certain CWRU resources.

BO-3: Centralize access to most commonly used CWRU resources.

SC-1: 50% of all Windows phone users in the Case community actively use the application.

SC-2: Application received at least 10 positive reviews on the Windows Marketplace.

SC-3: 3 months after release, more positive reviews then negative reviews.

SC-4: Recognition of application in university literature (such as *The Case Daily*)

1.3.   Business Risks

BR-1: Application fails certification for the Windows Phone Store.

BR-2: Windows Phone is a currently less utilized application platform than its competitors, increasing the risk that fewer students will use the application.

2. Vision of the Solution

2.1. Vision Statement

For students who currently struggle with knowing where their classes are, getting to classes on time, or using the myriad of other resources CWRU provides to its students, CWRUtility is an app which will solve these problems. It is an elegantly designed mobile application which will provide useful information and centralize the services students use most.

2.2. Major Features

FE-1: Integrates with the Student Information System to schedule students' courses.

FE-2: Provide map of CWRU campus with detailed information on students' course locations.

FE-3: Integrates with NextBus, Inc. to provide a schedule for the "greenie" system.

FE-4: Displays hours, locations, and other such information for Case services

FE-5: Displays menus for both major dining halls.

FE-6: Lists phone numbers of important Case resources, such as campus security.

FE-7: Integrates with *The Case Daily* to display daily news.

FE-8: Integrates with the e-Suds system to provide laundry information.

FE-9: Provides the current 5-year academic calendar.

FE-10: Displays the RSS feed of the *Case Western Observer*.

2.3. Assumptions and Dependencies

AS-1: Mobile device is equipped with an internet connection.

DE-1: This application depends on the continuing functionality of the described services.

3.   Scope and Limitations

3.1.   Scope of Initial and Subsequent Releases

Feature	Release 1	Release 2	Release 3
FE-1	Fully implemented		
FE-2	Basic map	Integrated with course schedule	Provides directions
FE-3	Basic functionality with NextBus	Full integration with NextBus (if needed)	Integration with Map
FE-4	Fully implemented		
FE-5	Not implemented	Fully implemented	
FE-6	Fully implemented		
FE-7	Not implemented	Fully implemented	
FE-8	Not implemented	Basic information displays	Integrates with phone's notification system
FE-9	Table of events		Integrated with course schedule
FE-10	Not implemented	Fully implemented	

3.2.   Limitations and Exclusions

LI-1: Requires functioning internet connection.

LI-2: Dependency on external services.

EX-1: Available only for Windows Phone 7 / Windows Phone 8 mobile devices.

4.   Business Context

4.1.   User Profile

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User	Value	Interests	Constraints
CWRU community members	More efficient and centralized use of CWRU services and resources	Ease of use; reliability; simplicity	Required to have a Windows Phone 7/8 with internet access
CWRU service providers	increased discoverability and utilization of their services	Appropriate representation of services in software	Potential for communication with CWRUtility to malfunction after service updates