
Software Requirements Specification

for

CWRUtility¹

Prepared by
Jason Kuster, Stuart Long, and William Ordway

Version 1.0

KOALAA Development

October 1, 2012

¹Working title

Contents

1	Business Requirements	2
1.1	Background, Opportunity, and Customer Needs	2
1.2	Business Objectives and Success Criteria	2
1.3	Business Risks	3
2	Vision of the Solution	3
2.1	Vision Statement	3
2.2	Major Features	3
2.3	Assumptions and Dependencies	4
3	Scope and Limitations	4
3.1	Scope of Initial and Subsequent Releases	4
3.2	Limitations and Exclusions	5
4	Business Context	5
4.1	User Profile	5

Revision History

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

1. Business Requirements

1.1. Background, Opportunity, and Customer Needs

When starting their Case Western Reserve experiences, new students are often overwhelmed by such sudden, dramatic (sometimes traumatic) changes in their lives. Many have trouble with the basics of surviving at CWRU. Some cannot find their classes, some do not know when the dining halls are open, and so forth. The stress induced by such challenges can often adversely affect a student's educational and social life. Even beyond the treacherous first few weeks of school, both current students and faculty waste time and effort trying to determine various information about CWRU using widespread and disparate resources.

A mobile software system that contains most, if not all, of the information any CWRU student or faculty member could want on a daily basis would greatly increase the efficiency of the users. The system will allow users to make better use of the many resources offered by CWRU. Centralizing access to these resources will not only enhance users' efficiency, it should also reduce their frustrations due to the inadequacies of other resources. The form of the system will be a Windows Phone 7 and Windows Phone 8 application. The mobile nature of a phone application will further enhance the efficiency of users.

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 than 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

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

