
Software Requirements Specification

for

CWRUtility¹

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Version 1.0

KOALAA Development

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¹Working title

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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 sole use of the members of the project team that will implement and verify the correct functioning of the system. Unless otherwise specified, all requirements documented here are high priority and committed for release 1.0.

1.2. Project Scope and Product Features

CWRUtility will allow CWRU students, faculty, and staff to easily access CWRU services and information in an easy-to-use way. A detailed project description is available in the *CWRUtility Vision and Scope Document*[1]. The section in that document titled "Scope of initial and subsequent releases" lists the features that are scheduled for full or partial implementation in this release.

1.3. References

1. Kuster et al. *Vision and Scope Document for CWRUtility*, <https://github.com/jasonkuster/EEC393/blob/master/V>

2. Overall Description

2.1. Product Perspective

CWRUtility is a new system that replaces the need for cumbersome navigation of all of the CWRU services in favor of a streamlined and custom-built mobile experience. The context diagram in Figure 1 illustrates the external entities and system interfaces for release 1.0. The system is expected to evolve over two releases, ultimately encompassing all of the services CWRU students, faculty, and staff use every day.

2.2. User Classes and Characteristics

Users: CWRUtility users are CWRU students, faculty, or staff members who wish to use our app in order to access CWRU services. The number of people at CWRU who possess Windows Phone 7/8 devices is unknown, but can be estimated in the area of 200 to 400 assuming that about half to 3/4 of the community possesses smartphones and the current figures put Windows Phone's marketshare at 3.5%. Our app will probably be used daily by 75% of installed users.

CWRU Services: The CWRU services are the services enumerated in Diagram 1 with which CWRUtility will have active communication. These services will be accessed several times per day by each instance of the application as it pulls data from the background. Multiple users may access the same service at the same time. Downtime in a service will result in downtime for the application.

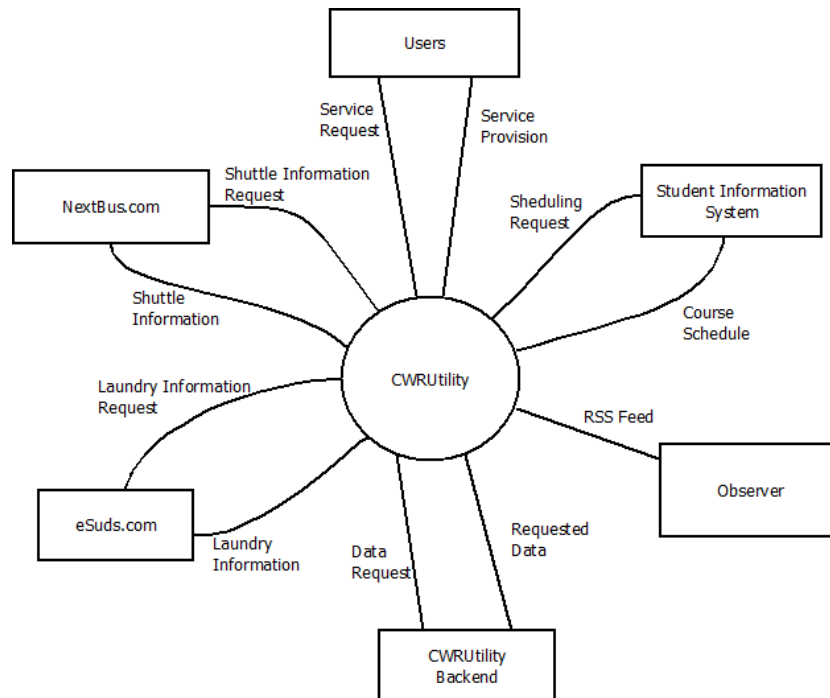


Figure 1: Context diagram for release 1.0 of CWRUtility

2.3. Operating Environment

OE-1: CWRUtility shall operate

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

