

# Software Requirements Document Cards

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Group Members
Devin O'Brien
Jake Keels
Sage Bonfield

UNCG Honor Code

# 1 Introduction

## Contents

## **1.1 Purpose**

This Software Requirements Document is for the CSC 429-01 Software Engineering semester project. This document will cover the requirements that are imposed by the project and the expectations of the software.

## **1.2 Document Conventions**

This document was made using L<sup>A</sup>T<sub>E</sub>X

## **1.3 Intended Audience**

This SRD is intended for Professor Ike.

## **1.4 Definitions/Jargon**

SRD : Software Requirements Document  
JRE : Java Runtime Environment  
JDK : Java Development Environment  
JVM : Java Virtual Machine

## **1.5 Project Scope**

## **1.6 Technical Challenges**

### **1.6.1 Github and Git**

## **1.7 References**

# **2 Overall Description**

## **2.1 Product Features**

## **2.2 User Characteristics**

## **2.3 Operating Enviornment**

This software is intended to be used in a professional environment.

**What is a professional Environment?**

## **2.4 Design and Implementation Constraints**

This software is required to be implemented in Java.

## **2.5 Assumptions and Dependencies**

# **3 Functional Requirements**

## **3.1 Primary Functions**

Primary functions are those that will always be available.

## **3.2 Secondary Functions**

Secondary functions are those that may not always be available.

# **4 Technical Requirements**

## **4.1 Operating Systems/Compatibility**

This software will use libraries that are cross-platform to some extent to be allowed to work on operating systems that run JRE 8.

## **4.2 Interface Requirements**

### **4.2.1 User Interface**

The User Interface must not be cluttered, and needs to be intuitive.

### **4.2.2 Hardware Interface**

The software will not require any special hardware interfaces beyond what is required of a standard Java Desktop Application which includes but not limited to the following:

- A Monitor
- CPU w/ multithreading capabilities
- RAM

- Storage Device

#### **4.2.3 Software Interface**

This software will require JRE 8, and some graphical service (like Xorg on linux).

#### **4.2.4 Communications Interface**

This software will use an API on a remote service to ...

## **5 Nonfunctional Requirements**

### **5.1 Performance Requirements**

### **5.2 Safety/Recovery Requirements**

The software will have the following features to protect the user data: (1) Backup saving system to prevent primary file from being corrupted due to premature shutdown. (2) Autosaving sytem to save userdata a change has been made.

### **5.3 Security Requirments**

The software would normally have security requirements to protect its users. However for this project, it is beyond its scope and will not be worked on.

### **5.4 Policy Requirements**

### **5.5 Software Quality Attributes**

#### **5.5.1 Availability**

This software will have the following feature(s) that will become unavailable without Internet access:

- Google Calendar (Syncing)

### **5.5.2 Correctness**

This software will strive to ensure that data is properly saved to prevent loss of the aforementioned data.

### **5.5.3 Maintainability**

This software will strive to follow the standards for object oriented programming to make it easier to maintain the software.

### **5.5.4 Reusability**

This software will strive to follow the standards for object oriented programming.

### **5.5.5 Portability**

This software will strive to work cross-platform.

## **5.6 Process Requirements**

### **5.6.1 Development Process Used**

This project plans to use a waterdown development process.

### **5.6.2 Time Constraints**

There are no time constraints except for the delivery date.

### **5.6.3 Cost and Delivery Date**

The delivery date for the project is ***December 1, 2020***.