Software Requirements Specification  
Scrum Manager

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# **1 INTRODUCTION**

### **1.1 Purpose**

SRS version 1.0 for Group16 Scrum Manager

### **1.2 Project Summary**

A project management interface based on the scrum development process.

### **1.3 Target Platform(s) / Operating System(s) Supported**

* Windows
* Linux
* Mac

### **1.4 Tools/APIs/Development Environment/Programming Languages**

* This project will by using Python 3.6 32bit, the included tkinter library, MySQLdb library, and the PyGitHub Library
  + <https://www.python.org/downloads/release/python-360/>
  + <https://stackoverflow.com/questions/372885/how-do-i-connect-to-a-mysql-database-in-python>
  + https://github.com/PyGithub/PyGithub
* IDE will be Jetbrains PyCharm
  + https://www.jetbrains.com/pycharm/
* Version Control will be managed through GitHub
  + <https://github.com/CEN3031-group16/GroupProject>

# **2 SYSTEM DESCRIPTION**

This system will allow teams to visually manage development projects, track development progress, and communicate efficiently through an intuitive GUI

Data will be stored on a MySQL server. Computer must be connected to a LAN for a locally hosted database server, or connected to the internet for a remote

Utilizes the GitHubApi through PyGitHub to view current code

### **2.1.1 (Example) Application Modes**

Application will have user specific Mode

|  |  |
| --- | --- |
| Scrum Master Mode | Can Assign User Roles |
| Developer Mode | Limited Admin Privileges |

### **2.1.2 Database description**

Remote MySQL server

User Table

Int: User ID

Text: User Name

Text: User email address

Text: User password (encrypted)

Text: User Role

Text: Github user ID

Text: GitHub user password (encrypted)

Card Table (These are backlog items)

Int: Card ID

Int: Card Type

Int: Priority

Foreign Key: Assigned User ID

Text: Card Title

Text: Card Description

Date: Due Date

Date: Assigned Date

Foreign Key: Sprint ID

?? : GitHubRepo->Project->Class

Int: Status ( 0 = unassigned; 1 = in progress; 2 = completed)

Sprint Table:

Int: Sprint ID

Date: Start Date

Date: Due Date

Comment Table:

Int: Comment ID

Date: Comment Timestamp

Foreign Key: Card ID

Foreign Key: User ID

Foreign Key: Sprint ID

### **2.1.3 (Example) Network description**

### **2.2 User Characteristics**

The typical user is a member of a development team utilizing the Scrum process for product development

### **2.3 Constraints**

Application requires a pre-configured remove MySQLdb

Use of the application requires a GitHub account

# **3 FUNCTIONAL REQUIREMENTS**

### **3.1 Main Features**

* GUI
* Visual Backlog Queue
* Create Users
* Create Backlog Items
* Create Sprints with start dates and due dates
* Drag users to Backlog Items to assign tasks
* Drag Backlog Items to Sprints
* Auto create Sprints bases on Backlog priority Queue
* Add comments to Backlog Items or Sprints
* View Latest Code associated with Backlog Item From GitHub