

SE 3XA3: Software Requirements
Specification
Red Discord Bot

Team #31, R-DB V2
Jason Tsui tsuij8
Student 2 name and macid
Student 3 name and macid

October 4, 2018

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Table 1: **Revision History**

Date	Version	Notes
Oct 4,2018	1.0	Project Drivers, Scope
Date 2	1.1	Notes

This document describes the requirements for software project R-DB V2 for McMaster University 3XA3 FALL 2018.

The template for the Software Requirements Specification (SRS) is a subset of the Volere template (Robertson and Robertson, 2012).

1 Project Drivers

1.1 The Purpose of the Project

Discord is an application which allows people to host and connect with numerous people into a single community over the internet. In these communities, they are able to communicate with each other by talking or typing in text. Oftentimes these communities grow to have over hundreds of persons and the need for community moderation becomes exponentially difficult. The purpose of R-DB V2, is to provide a means of automating commands to moderate the community, enforce rules, and provide community interaction.

1.2 The Stakeholders

1.2.1 The Client

The client of our product is McMaster University who will be the constantly reviewing R-DB V2 and providing guidance to properly document and redeploy the program.

1.2.2 The Customers

The customers of our product are Discord community moderators and owners. The typical owner and moderator would be persons who oversee a large community with numerous members. It is assumed that owners and moderators are looking to automate certain tasks and provide additional functionalities to their community.

1.2.3 Other Stakeholders

Other stakeholders include Discord inc. who will be providing the framework, environment and API to integrate the R-DB V2 program. They are interested

in the success of this project as the bot will provide additional user interface and features to the Discord application.

1.3 Mandated Constraints

Description: The product shall run on the Discord application API and software

Rationale: The product is an additional feature intended for the Discord application

Fit criterion: Our bot will be available to all users who use the Discord application

Description: The product shall only operate when connected to the internet

Rationale: Discord is an online server voIP and thus the product will also be dependant on internet connection

Fit criterion: The product shall only operate if an internet connection is present

1.4 Naming Conventions and Terminology

- Bot, Autonomous computer controlled program
- VoIP, Acronym which refers to Voice over Internet Protocol. Methodology of communication.
- Discord, The VoIP platform that is used for the bot.
- Host, Store a website or data on a server or other computer so that it can be accessed over the internet.
- Input, User typed in input into Discord community chat.
- Song request, to request the bot to play a particular song
- Moderate, Administrative duties to maintain community rules and integrity

2 Functional Requirements

2.1 The Scope of the Work and the Product

2.1.1 The Context of the Work

Project is to produce a Discord bot that is able to automate built-in Discord interfaces and provide additional features. Project is expected to be completed by Winter 2018. The exact details for milestones and goals is under the Development Plan and associated Gantt Chart.

2.1.2 Work Partitioning

Group members are expected to equally contribute. Work tasks will be discussed and partitioned on a meeting-by-meeting basis. Work tasks will be generated on a weekly basis based on the most current Gantt Chart and Development Plan.

2.1.3 Individual Product Use Cases

2.2 Functional Requirements

3 Non-functional Requirements

3.1 Look and Feel Requirements

3.2 Usability and Humanity Requirements

3.3 Performance Requirements

3.4 Operational and Environmental Requirements

3.5 Maintainability and Support Requirements

3.6 Security Requirements

3.7 Cultural Requirements

3.8 Legal Requirements

3.9 Health and Safety Requirements

This section is not in the original Volere template, but health and safety are issues that should be considered for every engineering project.

4 Project Issues

4.1 Open Issues

4.2 Off-the-Shelf Solutions

4.3 New Problems

4.4 Tasks

4.5 Migration to the New Product

4.6 Risks

4.7 Costs

4.8 User Documentation and Training

4.9 Waiting Room

4.10 Ideas for Solutions

References

James Robertson and Suzanne Robertson. *Volere Requirements Specification Template*. Atlantic Systems Guild Limited, 16 edition, 2012.

5 Appendix

This section has been added to the Volere template. This is where you can place additional information.

5.1 Symbolic Parameters

The definition of the requirements will likely call for `SYMBOLIC_CONSTANTS`. Their values are defined in this section for easy maintenance.