Contents

1 Introduction **1**
1.1 Purpose . . . 1
1.2 Scope of the Project . . . 1
1.3 Definitions, Acronyms, Abbreviations & References . . . 2
1.4 Overview of the Document . . . 2

2 Overall Description **3**
2.1 Product Perspective . . . 3
2.2 Product Functions . . . 3
2.3 User Characteristics . . . 3
2.4 General Constraints . . . 3
2.5 Assumptions & Dependencies . . . 3

3 Specific Requirements **3**
3.1 External Interface Requirements . . . 3
3.1.1 User Interfaces . . . 3
3.1.2 Hardware Interfaces . . . 3
3.1.3 Software Interfaces . . . 3
3.1.4 Communication Interfaces . . . 3
3.2 Functional Requirements . . . 3
3.3 Performance Requirements . . . 3
3.4 Design Constraints . . . 3
3.5 Attributes . . . 3
3.6 Other Requirements . . . 3

1 Introduction

The **Software Requirements Specifications** (SRS) of *Vyasa* — a simple, multilingual and cross-platform text editor are laid out in this document. It is expected to be useful for installation, configuration, documentation purposes by end-users and developers.

1.1 Purpose

This SRS documents the requirement specifications of the version 1.0 of *Vyasa*. The requirements for installing and using *Vyasa* are explained in detail here. Also the various parts of the code are explained here for the future developer.

1.2 Scope of the Project

Vyasa is intended to be a very simple and easy to use text-editor. It has excellent multilingual display capabilities which will enable the end-user to use it for typing

text in various languages. It supports state-of-the-art Indic Language support via the Pango rendering library. *Vyasa* is written in the Python programming language which is also an excellent Object Oriented programming language and is incredibly easy to use and extend. *Vyasa* uses the GTk+ GUI toolkit for the User Interface which is also a Free & Open Source cross-platform GUI toolkit. *Vyasa* can be a very good tool for people who want to use a light-weight and feature rich text-editor for creating multilingual documents. It can also be useful for students who want to learn Python programming.

1.3 Definitions, Acronyms, Abbreviations & References

1. Python – Python is an object-oriented, interpreted programming language with dynamic semantics [http://www.python.org/]
2. GTk+ – GTk+ is a cross platform GUI toolkit [http://www.gtk.org/]
3. *Vyasa* – *Vyasa* is a simple, multilingual text editor [http://vyasa.berlios.de/]
4. Pango – Pango is a text rendering library for GTk+

1.4 Overview of the Document

This document provides the users, developers of *Vyasa* a bird's eye view of the software in general and information about installing, configuring and enhancing *Vyasa* in particular.

The mechanics of installing *Vyasa* are provided in detail as well as the requirements for using it.

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

2 Overall Description

2.1 Product Perspective

2.2 Product Functions

2.3 User Characteristics

2.4 General Constraints

2.5 Assumptions & Dependencies

3 Specific Requirements

3.1 External Interface Requirements

3.1.1 User Interfaces

3.1.2 Hardware Interfaces

3.1.3 Software Interfaces

3.1.4 Communication Interfaces

3.2 Functional Requirements

3.3 Performance Requirements

3.4 Design Constraints

3.5 Attributes

3.6 Other Requirements