C

FRIEND

April 22, 2019

Software Requirements Specification

Version 1.0

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Prepared for Source Code Management

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Revision History

Date	Description	Author	Comments
22/04/2019	Version 1	Aman Kumar Gupta	First Revision

Document Approval

The following Software Requirements Specification has been accepted and approved by the following:

Signature	Printed Name	Title	Date
	Dr Monit Kapoor	HOD,Department of Cybernetics	24/04/2019

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1. INTRODUCTION

1.1 Purpose

The main idea behind the project is to provide a program which can be very useful to the students learning C language.

It will provide text contents for reading it like a book with multiple test series along with some games.

1.2 User Characteristics

Any user familiar with using command line interface and basic concepts of using a personal computer will normally able to use the program. As a result, no specific requirements are affected by the user's characteristics.

1.3 General Constraints

The obvious and most important limitation for using this application is its dependency of the compiler as it is made in C++ it needs to be recompiled on the user's machine.

In addition, the speed of execution of the program would vary from machine to machine depending on the hardware.

2.0 Assumptions and Dependencies

There are no dependencies regarding the operating system given that its has compatibility with any C++ compiler.

3.0 Specific Requirements

3.1 External Interface Requirements

3.1.1 User Interface

Command line

3.1.2 Hardware Interfaces

The program must be able to be executed in a simple computer.

3.1.3 Software Interfaces

The program is going to need an operating system in order to be installed. It is designed to run in any well known Operating System, including Windows, Linux and Mac OS.

3.1.4 Communications Interfaces

None important

3.2 Non- Functional Requirements

3.3.1Performance

The display time in changes must be done quickly and efficiently. They must not exceed the 1 second.

3.3.2 Reliability

Reliability in this program must be focused in advanced topics. The algorithms that uses must provide correct results even for big amounts of data.

3.3.3Availability

There are no high concerns about availability in this program. If for any reason the program makes itself not available for some moments, this event is not going to affect the user in any important way.

3.3.4 Security

There are no security requirements for this software.

3.3.5 Maintainability

The program must be designed in a way that new addition can be done without changing the already developed structure.

3.3.6 Portability

The program is completely portable. A compiler is needed for installation of this software.

3.4 Inverse Requirements

There are no useful inverse requirements for this product.

3.5 Design Constraints

No worth-mentioning design constraints apart from the GNU License that this product development was based.

4.0 Appendix

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