

# **Software Requirements Specification (SRS) for Notepad Java Project**

## **1. Introduction**

### **1.1 Purpose**

The purpose of this document is to define the requirements for the development of a Notepad application using Java. This application will provide basic text editing functionalities similar to the Windows Notepad.

### **1.2 Scope**

The Notepad application will offer features such as creating, editing, saving, and opening text files. It will also include basic text formatting options.

### **1.3 Definitions, Acronyms, and Abbreviations**

- GUI: Graphical User Interface
- JDK: Java Development Kit
- JRE: Java Runtime Environment

### **1.4 References**

- Java SE Documentation
- Swing API Documentation

## **2. Overall Description**

### **2.1 Product Perspective**

The Notepad application will be a standalone desktop application, developed using Java and Swing for the GUI.

### **2.2 Product Functions**

- Create a new text file

- Open an existing text file
- Save the current text file
- Save the current text file with a new name (Save As)
- Edit text (Cut, Copy, Paste, Select All)
- Undo and Redo actions
- Basic text formatting (font type, size, style)

### 2.3 User Characteristics

The primary users of this application are individuals who need a simple text editing tool. No specific technical knowledge is required to use the application.

### 2.4 Constraints

- The application must be developed using Java.
- It should be compatible with the latest JDK and JRE.
- The application must run on Windows, macOS, and Linux.

### 2.5 Assumptions and Dependencies

- Users have Java Runtime Environment (JRE) installed on their system.
- The application relies on the Java Swing library for GUI components.

## **3. Specific Requirements**

### Functional Requirements

#### 3.1. File Operations

- FR1: The system shall allow the user to create a new file.
- FR2: The system shall allow the user to open an existing file.

- FR3: The system shall allow the user to save the current file.
- FR 4: The system shall allow the user to save the current file with a new name (Save As).

### 3.2 Edit Operations

- FR2.1: The system shall allow the user to cut the selected text.
- FR2.2: The system shall allow the user to copy the selected text.
- FR2.3: The system shall allow the user to paste the text from the clipboard.
- FR2.4: The system shall allow the user to select all text.
- FR2.5: The system shall allow the user to undo the last action.
- FR2.6: The system shall allow the user to redo the last undone action.

#### 3.1.3 Formatting

- FR3.1: The system shall allow the user to change the font type of the text.
- FR3.2: The system shall allow the user to change the font size of the text.
- FR3.3: The system shall allow the user to change the font style (bold, italic, underline).

### 3.2 Non-Functional Requirements

#### 3.2.1 Performance

- The application should load and save files within 2 seconds.
- The text editing operations should be instantaneous.

### 3.2.2 Usability

- The application should have an intuitive and user-friendly interface.
- All functionalities should be easily accessible through menu options and keyboard shortcuts.

### 3.2.3 Portability

- The application should be platform-independent and run on any operating system with JRE installed.

## 4. System Features

### 4.1 User Interface

The GUI will include:

- A menu bar with File, Edit, and Format options.
- A text area for displaying and editing text.
- Dialogs for opening and saving files.
- Options for font customization.

## Conclusion

The Notepad Java project aims to develop a simple, intuitive text editor with essential text manipulation and file management features. This SRS outlines the functional and non-functional requirements to guide the development process, ensuring the application is user-friendly, efficient, and platform-independent. By adhering to these specifications, the project will deliver a reliable and accessible text editing tool suitable for general use.