**Software requirement specification (SRS) document**



Review history



Revision history



Approval history

Project name: **Text Editor Application**

Date:

Version: 1.0

By:

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5 Definitions and acronyms

Describe the purpose of the document.

This document defines the functional, non-functional, and interface requirements for the Text Editor Application. It serves as a reference for developers, testers, and stakeholders to ensure the project meets its intended goals and functionality.

* 1. Product scope

List the benefits, objectives, and goals of the product.

The Text Editor Application is a lightweight, user-friendly tool designed to create, edit, save, and manage text files efficiently. It includes features like multiple tabs for managing files, save and open functionality, and a clean user interface for seamless interaction.

* 1. Product value

Describe how the audience will find value in the product.

This application simplifies file editing and management for users who need a straightforward text editor with essential features. Its multiple tab handling and intuitive dialogs enhance productivity and user experience.

* 1. Intended audience

Write who the product is intended to serve.

This software is intended for students, developers, and general users requiring a simple text editing solution.

* 1. Intended use

Describe how will the intended audience use this product.

) Create new text files. Edit existing files.

.) Save changes made to files.

.) Open multiple files in a tab-based interface.

.) Search within text files.

* 1. Requirement Definition

Give a summary of the functions the software would perform and the features to be included.

The Text Editor Application will provide a Title Bar, Menu Bar, and Footer. It will include functionalities for managing files, tracking save status, and adjusting settings like font size. The application will also support dialogs for saving changes and confirming actions.

Below, the requirements for the Text Editor Application are grouped into **4 categories** using the

**MoSCoW Method**. This method prioritizes features by classifying them into those that **Must** be implemented, those that are **Should** be included, those that are **Could** be included, and those that

**Won’t** be implemented immediately. This ensures efficient planning and development by focusing

on core functionality while avoiding spending time on less critical features.

* **Handling Files with Tabs**
* **Print Document**
* **Highlight searched Text**
* **Show Document Status**
* **Footer Bar with useful Info**
* **Open Document**
* **Save Document**
* **Create Document**
* **Edit Document**
* **Search for Text** 
  + **Cloud Synchronization**
  + **Multi-Party Real-time Editing**
  + **Advanced Formats (tables, images)**
* **Highlight searched Text**
* **Zoom Text for readability**
* **Change Font/Font Size**

List the design requirements, graphics requirements, operating system requirements, and constraints of the product.

**Title Bar Left (TBL)**

1. Program Icon: Displays the application’s icon.
2. Program Name: Shows the name of the application.

**Title Bar Middle (TBM)**

1. Track Status (dot): Boolean indicating whether the current file is saved or unsaved.
2. Current File Name in Tab: Displays the name of the open file.
3. Close File (“x”): no changes? -> close file, else prompt Dialog: Save/Yes -> then close file

**Title Bar Right (TBR)**

1. Minimize Window
2. Maximize Window
3. Maximize Window: no changes? -> close app, else prompt Dialog: Save/Yes -> then close app

**Menu Bar Button Section (MBB)**

1. New File/Tab: Open a file explorer, type name or select existing one
2. Open File: Open a file explorer to select and load a file into the editor.
3. Save File: Save changes to the existing file or location, unsaved changes are tracked
4. Print File: (Optional, “Should” requirement), Open print view for printing the document

**Menu Bar Search Section (MBSS)**

1. Search Icon: Just for Design appearance (maybe could be clickable?)
2. Search Placeholder: To type text to search, then enter -> highlight matched text, display position

**Footer Bar (FB)**

.) No functional requirements specified, will be featureless for App version 1.0

* 1. User interface requirements

Describe the logic behind the interactions between

the users and the software (screen layouts, style guides, etc).

Clean and responsive UI with distinct Title Bar, Menu Bar, and Footer.

Dialog boxes for user prompts.

Highlight search results dynamically.

* 1. Hardware interface requirements

List the supported devices the software is intended

to run on, the network requirements, and the communication protocols to be used.

.) If not packaged as a standalone executable, the App runs on any system

supporting JavaFX (Windows, macOS, Linux).

.) For a packaged bundle, JVM running on the host system is sufficient

* 1. Software interface requirements

Include the connections between your product and other software components, including frontend/backend framework, libraries, etc.

.) Uses JavaFX for the GUI.

.) Compatible with JDK 11+.

* 1. Communication interface requirements

List any requirements for the communication programs your product will use, like emails or embedded forms.

No external communication interfaces are required.

* 1. Security

Include any privacy and data protection regulations that should be adhered to.

Prevent accidental data loss with save prompts.

* 1. Capacity

Describe the current and future storage needs of your software.

Support files up to 10MB in size.

* 1. Compatibility

List the minimum hardware requirements for your software.

Compatible with Windows, macOS, and Linux.

* 1. Reliability

Calculate what the critical failure time of your product would be under normal usage.

Handle unsaved changes without data corruption

* 1. Scalability

Calculate the highest workloads under which your software will still perform as expected.

Allow up to 5 open tabs at a time.

* 1. Maintainability

Describe how continuous integration should be used to deploy features and bug fixes quickly.

Modular code structure for easy debugging and updates.

* 1. Usability

Describe how easy it should be for end-users to use your software.

Intuitive interface with minimal learning curve.

* 1. Other

List any additional non-functional requirements.

Provide responsive performance even with large files.

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| --- | --- |
| TBL | Title Bar Left |
| TBM | Title Bar Middle |
| TBR | Title Bar Right |
| MBBS | Menu Bar Button Section |
| MBSS | Menu Bar Search Section |
| FB | Footer Bar |