Writing Wizard

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# 1: Introduction

## 1.1 Document Purpose

The purpose of this document is to outline the vision for the Writing Wizard system, a text editor software. The vision document focuses on the positioning, stakeholders, and product overview.

## 1.2 Scope

The scope of this document is for Writing Wizard, a text editor that supports local document sharing with authentication and covers the features, objectives, and functionalities that the software wants to achieve.

# 2: Positioning

## 2.1 Business opportunity

Writing Wizard taps into the growing demand for secure and collaborative tools in the market. By focusing on security, users can create documents with authentication measures, a solution for businesses and individuals looking to safeguard sensitive information. Writing Wizard facilitates seamless collaboration by allowing users to share and collaboratively edit existing files locally. With a simple and novice-friendly user interface, this software can be widely adapted for educational features and beginner writers.

## 2.2 Problem statement

| The problem of | * The risk of unauthorized access/safety concerns * Novice users struggle with complex interfaces/Learning curves and customization * Offline limitations/users' ability to access and edit documents in environments with unreliable or no internet connectivity |
| --- | --- |
| Affects | * Individuals * Business owners/professionals * Developers * Students and educators |
| The impact of which | * Security vulnerabilities * Learning curves * The risk of data loss |
| A successful solution would be | * Authentication system * Offline mode * User-friendly interface * Local document sharing and editing |

# 3: Stakeholder and User Descriptions

## 3.2 Stakeholder Summary

| **Name** | **Represents** | **Responsibilities/Roles** |
| --- | --- | --- |
| End-Users | * Individuals * Professionals | * Utilizing the text editor for personal documentation * Utilizing the text editor for work-related tasks |
| Business Owners | * Professionals * Security Control * Executives | * Utilizing the text editor for security reasons |
| Educational Institutions | * Educators * Students | * Using the text editor for academic and collaborative purposes |
| Benjamin Bruyns | * Database development team | * Creation and maintenance of the database systems |
| Jordan Weaver | * Data processing team | * Creation and maintenance of data processing system |
| Jacqueline Justice | * UI Designer | * Creation of visual layout and interactive elements |

## 3.3 User Summary and Environment

Users across different environments can access and use the software seamlessly because Java's platform independence allows the text editor to be compatible with various operating systems.

Users need to have the Java Runtime Environment (JRE) installed on their devices to run the text editor. This requirement ensures that the software can be executed on any system with Java support.

# 4: Product Overview

This section provides a high-level view of the product's capabilities.

## 4.1 Product Perspective

This product already exists in some ways through Google Docs, Microsoft Word, Notes, and many other collaborative document applications. Unlike these, Writing Wizard can support collaboration locally on a single device while maintaining the ability to keep documents private by using profiles in the app.

## 4.2 Product Capabilities

| **Benefits** | **Supporting Features** |
| --- | --- |
| User Authentication  and Security | * Username and Password Features |
| User-friendly Interface | * A simple interface that allows users to quickly learn the features that the text editor provides |
| Document Sharing | * The secure, local-document sharing feature allows users to edit documents |

## 4.3 Assumptions and dependencies

This project may be restricted to Windows OS due to time constraints.

# 5: Product Features

## 5.1: Ability to create an end-user profile.

This product should be able to allow an end-user to create a profile.

## 5.2: Ability to authenticate an end-user.

This product should be able to prevent unauthorized access to end-user profiles by locking said profiles under usernames and passwords.

## 5.3: Ability to create documents.

This product should be able to create documents and assign ownership of specific documents to the end-user profile that created it.

## 5.4: Ability to assign ownership.

This product should be able to allow end-users to transfer ownership of a document from themselves to another end-user. By default, the creator is the owner.

## 5.5: Ability to delete documents

This product should be able to allow the end-user that owns a document to delete said document.

## 5.6: Ability to let end-users share documents.

This product should be able to allow the end-user who owns a document to give other local users access to the document.

## 5.7: Ability to let end-users restrict access to their documents.

This product should be able to allow the end-user who owns a document to remove other local users' access to the document.

## 5.8: Intuitive and friendly GUI design.

This product’s GUI should be easy to use and understand.

## 5.9: Ability to permit various combinations of options regarding document contents

This product should be able to allow the end-user with writing privileges to change the font and font size as well as the size of the spacing between lines.

## 5.10: Ability to use common keybinds to perform tasks within a document.

This product should be able to allow the end-user with correct privileges to use well-established keybinds to function as normal within the application. I.e. Ctrl+C, Ctrl+V, Ctrl+Z, Ctrl+Y, and Ctrl+X.

# 6: Constraints

None of us have ever connected a database to an application, so this will be a learning experience.

# 9: Other product requirements

All other requirements and constraints have been listed. However, as the project progresses, this may be prone to change.