Generic eBook Management Application - GEMA

Vision Document

Version 1.0

Revision History

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| --- | --- | --- | --- |
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| 22/10/2021 | 1.0 | Initial draft | Tran Kien Quoc |
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Vision (Small Project)

# Introduction

The purpose of this document is to collect, analyze, and define high-level needs and features of the Generic eBook Management Application (GEMA). It focuses on the capabilities needed by the stakeholders and the target users, and **why** these needs exist. The details of how the GEMA fulfills these needs are detailed in the use-case and supplementary specifications.

# Positioning

## Problem Statement

|  |  |
| --- | --- |
| The problem of | Inconvenient files, books, documents management |
| affects | * General users |
| the impact of which is | * Users have to spend a lot of time looking through their files and folders in the filesystems. * Users can’t keep track of books being read currently. |
| a successful solution would be | * A digital library to manage the user’s book, notes, and documents |

## Product Position Statement

|  |  |
| --- | --- |
| For | Everyone, book readers, ... |
| Who | reads a lot, or has a lot of notes, documents |
| The GEMA | is a software |
| That | provides an easy way to manage notes, documents, books |
| Unlike | most other products which are slow and does not allow downloading |
| Our product | allow downloading from multiple sources |

# Stakeholder and User Descriptions

## Stakeholder Summary

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Responsibilities** |
| TA | Mr. Bui Tan Loc | Monitors the project’s progress |
| Group1 member | The team | * Ensure that the system will be maintainable * Ensure that there will be a market demand for the product’s features |

## User Summary

|  |  |  |  |
| --- | --- | --- | --- |
| **NameUser** | **Description** | **Responsibilities** | **Stakeholder** |
| Testers | Tester of the application | Captures details  Produces reports | Directly represented |
| End-user | Customers | Utilize the application.  Do bug report voluntarily | Directly represented |

## User Environment

* Operating system: Windows or Linux on PC, potentially the Linux-running Steam Deck .
* Number of people involved: 1 because it is for personal use.
* Other services: integrate with cloud services such as Google Drive or OneDrive to sync between devices.

## Alternatives and Competition

There are many of them can be chosen from, to name a few:

|  |  |  |  |
| --- | --- | --- | --- |
| **No. 1** | **Name** | **Strengths** | **Weaknesses** |
| 1. | Calibre | Feature packed and completed | Written in Python, which many don’t like. |
| 2 | Adobe Digital Editions |  | Source code not open, potential for malicious code injected into user’s computers. |
| 3 | Amazon Kindle | Popular reader, rich collection of books due to Amazon. | Proprietary. Also get laggy on slow computers. |

# Product Features

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Feature** | **Description** | **Priority** |
| 1 | Book library | A collection of books | High |
| 2 | Search for books | Looking for my book | High |
| 3 | Book downloader | Download books for offline use, from various sources | Medium |
| 4 | Sort book | Sort book by subject , name, author, ... | Medium |
| 5 | Cloud upload | Upload the user's library to a cloud service | Medium |
| 6 | Cloud download | Download the user’s library from a cloud service | Medium |
| 7 | Suggestion | Book recommendations according to user’s interest | Low |
| 8 | Add book | Add a new book to the library | High |
| 9 | Delete book | Delete a book from the library | High |
| 10 | METADATA editor | Edit metadata of a PDF/MOBI/EPUb/… file | Low |
| 11 | Bug report | Report bug for improvement | Low |
| 12 | News fetching | Fetch news from various sources, extensible module | Low |

# Non-Functional Requirements

* The software operates on Window or Linux
* Support high performance file system reading
* Each window must appear within 1 second of clicking.