

PikaReed

By: Bryan Pikaard and Calab Reeder

1. Introduction

1.1. Purpose

The purpose of this document is to determine the specifications for the creation of the project, a novel hosting and writing platform. This document will describe the rationale for the platform, requirements of development and deployment, stakeholders and users of the platform, any constraints, and the team responsible for developing the platform and ensuring it is working properly.

1.2. Scope

The scope of this document is limited to the creation of an online library capable of handling the needs of new writers, as well as supporting a growing community between writers and their readers.

2. Positioning

2.1. Business Opportunity

This creates a platform for writers who wish to express themselves and readers who wish to read new and less popular content the ability to write/read in a safe manner.

2.2. Problem Statement

The problem of	<ul style="list-style-type: none"> - New writers struggling to spread their work - Not having a common place to find new novels easily - Experienced writers cannot share their feedback or comments easily
Affects	<ul style="list-style-type: none"> - New and amateur writers - Readers looking for more content - Experienced writers looking to help
The impact of which is	<ul style="list-style-type: none"> - The new writers lose the motivation to continue their work
A successful solution would be	<ul style="list-style-type: none"> - A platform that can actively promote and support the work of new authors. The web application can provide a space for users to provide feedback and encouragement to struggling authors, while also providing resources to better their writing and grammar if needed.

3. Stakeholders and User Descriptions

3.1. Stakeholder Summary

Name	Represents	Role
Project Manager	Lead developer who has the final say on what changes to make to the system	Deciding New System Features, Creates and Enforces Deadlines
Software Developers	Subsidiary developers who assist the lead developer	Develop Platform and Implement Requested Features
Quality Assurance	Testing team	Assure platform works as intended and discovers any potential issues
Moderators	Trusted users seeking further responsibilities in the community	Content Moderation, Specifications for Automation and Tools to Effectively Moderate
End Users	Users of the platform	Content Creation and Consumption, Provide Feedback and Request Features

3.2. User Summary

Name	Description	Stakeholder
Writers	Beginner writers who wish to publicize their work	End Users
Readers	Users seeking to read and assist new writers in their work. Able to report content for malicious content or mistakes	End Users and Moderator

4. Product Overview

4.1. Product Perspective

Other platforms exist to give users access to books and other content, but few if any give people the place to write their own content in the form of novels and get feedback and share it with other people. This allows people to be creative in their writing and allows readers to give feedback and find mistakes before fully releasing it, or solely just a place to share their creations.

4.2. Summary of Capabilities

This product will provide a platform for new writers to display their work and receive appropriate feedback on where to improve.

4.3. Assumptions and Dependencies

JavaScript Enabled Browser

Docker

ASP.NET

PostgreSQL

NodeJS

5. Product Features

5.1. User Registration and Authentication

Support email and password authentication and registration. Allows users to create an account and login to their account to create and read other user content.

5.2. User Written Content

Users can write their own content in the form of a draft or published document.

5.3. Content Approval and Moderation

A moderation team has the ability to approve content from new members to be visible to the entire platform. Content that is malicious or explicit can be removed or hidden until it is altered. Users can report bad content.

5.4. Public Library

A public list of all content written by users that want to share what they've written.

5.5. User Library and Bookmarks

A place users can save the content they want to read with the ability to bookmark important places or to keep track of where they are.

5.6. Content Reviews and Ratings

Users can review and rate content to provide feedback to other readers or the author.

5.7. Suggestions and Feedback

Users can suggest edits for content or grammatical mistakes that will be sent to the author.

5.8. Weekly Top Ranking

Users can view a list of top-rated, most read, newest, etc. content.

5.9. Trusted Users

Trusted users can proofread new content before it is allowed to be public. These users would not require approval from moderators before publishing new content. They can help new writers and leave comments.

5.10. Platform Feedback

Users can submit feedback to request features or changes to the platform.

6. Constraints

A major constraint for this project will be the number of individuals available to interact with the website. As it is meant for a large community of both readers and writers, the website will not function entirely as intended if we simply insert dummy novels and simulate users interacting with these novels. So while the general purpose behind the website can be demonstrated, it should be noted that the exact features implemented may not work outside of strictly engineered environments.

7. Other Product Requirements

7.1. System Requirements

7.1.1. Platform Requirements

- A server running one of the following architectures: arm32, arm64, amd64.

7.1.2. End-User Requirements

- Any device with a web browser with JavaScript enabled.

7.2. Software Requirements

- Docker
- PostgreSQL - Docker
- ASP.NET Runtime - Docker
- NodeJS - Docker
- ASP.NET
- NodeJS

7.3 Performance Requirements

- None specified.

7.4 Environmental Requirements

- None specified.