SOFTWARE REQUIREMENTS SPECIFICATION

for

AUTHORISE

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1 Introduction

1.1 Purpose

AUTHORISE is a web application project which will serve as a platform for new writers to get viewership, constructive criticism and publishers for their work. This project will also serve as platform for publishers who want to start a publication service and kick-start their career. Writers and Publishers can seamlessly communicate through this platform for the buissness and publication purpose.

1.2 Document Conventions

Describe any standards or typographical conventions that were followed when writing this SRS, such as fonts or highlighting that have special significance. For example, state whether priorities for higher-level requirements are assumed to be inherited by detailed requirements, or whether every requirement statement is to have its own priority.

1.3 Intended Audience and Reading Suggestions

This SRS is intended for developers (our team), and the higher authority who is going to review our website for evaluation. This SRS contains Project Description, Project scope, User Interfaces, Software interfaces, safety and security requirements, environment description, design and implementation constraints, and other minimalistic requirements and information reguarding project.

1.4 Project Scope

Benefits:

- Visibility for new writers: The platform provides an opportunity for new writers to showcase their work and gain visibility among a wider audience.

- Constructive criticism: Writers can receive constructive criticism on their work, which can help them improve their writing skills.

- Publisher discovery: Publishers can discover new talent and find potential writers to work with.

- Easy communication: The platform provides seamless communication between writers and publishers for business and publication purposes.

- Increased accessibility: The platform is accessible to anyone with an internet connection, making it easier for writers and publishers to connect regardless of their location.

Commercial goals:

- Partnership and collabration: The platform can collaborate with publishers, literary agents, and other stakeholders in the publishing industry to expand its reach and offer more services to its users.

- User experience and engagement: This will be achieved through features such as personalized recommendations, easy navigation, and interactive communication channels. The platform should also provide constructive feedback to its users to help them improve their writing skills and increase engagement.

- Data analytics and insights: The platform can collect and analyze data on user behavior, preferences, and feedback to gain insights into user needs and preferences. This can help the platform to improve its services and user experience and make data-driven decisions.

- Continuous improvement and innovation: The platform should continuously improve and innovate its services to stay relevant and competitive in the market. This can be achieved through regular updates, new features, and partnerships with technology providers.

2 Overall Description

2.1 Product Perspective

This project aims at bridging the communication and acceptance gap between the content writers, Publishers and Content consumers. We aim at Implementing new features and scopes on some similar existing softwares such as Notion Press, Muzzers, Wattpad etc.

2.2 Product Functions

- User Registration and account specification: Allow users to register with website, create an writer, publisher or consumer account, and log in to the platform via their roles.

- Profile Management: Allow users to manage their profiles, including editing their username, profile picture, and bio. It also helps users to edit other factors like books written or published etc

- Reading, Writing and publishing Stories: Allow users to read, write stories on AUTHORISE, and helps them publish physically also. including the ability to search for stories by genre, tag, Publication and author.

- Voting and Commenting: Allow users to vote on and comment on stories they have read on AUTHORISE, with a moderation system in place to prevent spam and inappropriate content.

- Messaging: Allow users to send and receive private messages to other users on AUTHORISE.

- Social Features: AUTHORISE will include a range of social features to encourage engagement and interaction between users. Some social features of a book publishing website include:

  User Profiles: Users can create their own profiles, which may include information such as their reading preferences, and books they have read. This can help users connect with others who share similar interests.

  Reviews and Ratings: Users can leave reviews and ratings for books they have read, which can be displayed on the book's page. This can help other users decide whether or not to read the book, and can also generate discussion and debate.

Recommendations: Based on a user's reading history and preferences, the website can suggest books that they might enjoy. Users can also make recommendations to others.

Author Pages: The website can include pages for individual authors, which may include biographical information, a list of their books, and upcoming events.

These social features can help create a vibrant and engaged community of book lovers, and can encourage users to discover new books and authors.

- Story Management: Allow authors and publishers to manage their stories, including editing, publishing, and deleting stories.

- Analytics and Reporting: Provide analytics and reporting features for authors to track their readership, engagement, and feedback on their stories.

- Story Acquisition: Allow publishers to acquire stories from AUTHORISE authors for publication in traditional print or digital formats, with options for negotiation of contracts and royalties.

- Rights Management: Allow publishers to manage the rights for the stories they acquire, including options for licensing and distribution.

- Content Guidelines and Review: Provide guidelines and review processes for the stories published by AUTHORISE authors that are acquired by publishers, ensuring that they meet the publisher's standards and comply with legal and ethical requirements.

- Integration with Publishing Industry: Provide integration with the wider publishing industry, including metadata standards, book distribution channels, and sales tracking systems.

2.3 User Categories and Characteristics

User Categories and characteristics of a book publishing website

The user categories and characteristics of a book publishing website will include the following:

- Readers: These are individuals who visit the website to find and purchase books.They have the access to books that are published or can read a part of book that has been kept open by the author.

- Authors: These are writers who want to publish their work on the website.They can approach the publishers of their choice to publish their work.They will also have access to books as per a normal reader.

- Publishers: These are companies or individuals who publish books and will use the website to connect with readers.They can publish the books they like with

permission of authors.They will have access to all books which are kept open to publishers by the authors.

2.4 Requirements

- Operating System: It should be accessible from a variety of operating systems, including Windows, MacOS, Linux, iOS, and Android.
- Web Browser: The application should be accessible from a variety of web browsers, such as Google Chrome, Mozilla Firefox, Safari, and Microsoft Edge.
- Internet Connection: The application should be accessible over the internet and should work optimally over both slow and fast internet connections.
- Storage Space: The application should be designed to store user-generated content, such as books, chapters, and comments, on the server.
- Device Compatibility: The application should be compatible with a range of devices, including desktops, laptops, tablets, and smartphones.
- Security: The application should have robust security measures in place to protect user data, including data encryption, secure login, and protection against attacks.
- Third-Party Integrations : The application should be designed to integrate with third-party tools and services such as payment gateways, analytics tools, and social media platforms.
- Scalability: The application should be designed to handle a large number of users and user-generated content without compromising performance or reliability.
- Availability: The application should be designed to be available to users 24/7 with minimal downtime for maintenance and upgrades.

2.5 Design and Implementation Constraints

- Usability constraints: AUTHORISE is a platform for users to read and write stories, so the SRS must be designed and implemented to provide a user-friendly interface that is easy to navigate and use.
- Compliance constraints: AUTHORISE must comply with legal and regulatory requirements such as data privacy laws, copyright laws, and content restrictions.
- Platform constraints: AUTHORISE is available as a mobile app and a web app.

- Performance constraints: The SRS must be designed and implemented to handle a large number of users and publishing requests simultaneously. This includes features such as efficient search algorithms, quick loading times, and the ability to handle a large volume of user-generated content.

- Security constraints: AUTHORISE is a platform where users may store and publish their intellectual property, also publishers are using publication license number for verified authorisation. It is important that the SRS be designed and implemented to provide robust security measures to protect user data, user login information and prevent unauthorized access or loss of personal data.

- Data format and structure: Mobility of document will be carried out via pdf dataformat.

- Scalability constraints: AUTHORISE may experience a rapidly growing user base and must be designed and implemented to scale easily as the user base expands. This includes features such as horizontal scaling, load balancing, and caching.

2.6 User Documentation

Software documentation is a crucial part of working software.

Our documentation provides basic guidelines for using the software in the GitHub repository in the readme file.

2.7 Assumptions and Dependencies

Assumptions :
- Users have access to an internet connection and a device that can access the AUTHORISE website.

- Users have the necessary permissions and licenses to upload or share any copyrighted content.

- Users will accurately report any inappropriate content or behavior on the platform.

Dependencies :
- AUTHORISE may depend on a specific programming language or framework to develop and maintain the platform.

- AUTHORISE may depend on the availability and reliability of the internet and mobile networks to ensure that users can access the platform at all times.

- AUTHORISE may depend on users to provide and generate content for the platform to function properly.

Like any website, a book publishing website may face a range of problems that can impact its usability, functionality, and overall success. Some possible problems that a book publishing website may encounter include:

Content Quality: The quality of the content on the website, including book summaries, reviews, and recommendations, can impact user engagement and trust. Inappropriate and' inaccurate information can lead to negative user experiences.

Copyright Issues: The website may face copyright issues related to the content it hosts, such as user-generated reviews or summaries that infringe on copyright. The website may also be held liable for copyright infringement if it allows users to upload copyrighted content without permission.

These are just a few possible problems that a book publishing website may encounter. Addressing these issues requires a combination of technical expertise, content strategy, user engagement, and legal compliance.

3 External Interface Requirements

3.1 User Interfaces

3.1.1 User Section

This is the section which will be accessed by everyone. Here user will get the all book available to read. User can search for specific book and read and write the reviews for the book. User will read the book as a PDF within our software. This section have some more feature like upload books written by them for reviews and for publication but for this they need to be register them self as WRITER or PUBLISHER.

3.1.2 Writer Section

When user register as Writer they have option to upload their written material as a PDF. Writer has control how user read their books weather user can have the complete access or the access of only preview of the book. Their entries can be seen by other users/publishers and reviewed by them. Writer will get the request by publisher when any publisher request them for complete book when publisher is interested in their book to publish. If writer allows complete PDF will be sent to them which is secure by auto generated/writer generated. Writers have a dashboard where they can see the details of all their uploaded books like reviews, requests etc and information of all the publishers they give access of the books.

3.1.3 Publisher Section

In this section publisher can read the preview or even complete book and write reviews. When publisher is interested in the book, they will send the request for complete book and can contact writer for the further procedure. If publisher wants to contact specific writer to write something for their publication they can search writer.

3.2 Hardware Interfaces

The website will work across a range of devices, including smartphones, tablets, laptops, and desktops. We would have a system which is responsive, with a flexi-

ble layout that adapts to different screen sizes and resolutions. Hypertext Transfer Protocol (HTTP) and Representational State Transfer (REST) are the communication protocols we are planning to follow.

3.3 Software Interfaces

Our project won't be embedding any of the COTS or Available components. We would be working on the mongo database and atlas environment for the same. Initially targetting the windows operating system, we will surely try to upgrade our software to work on diffrent os like mac and linux. MERN based applications and node libraries will be at the core of our project. Data items entering server side will mostly be consisting of User data, content based data, etc.

4 System Features

- User authentication and account management: This feature allows users to register and create a profile on the platform, log in securely, and manage their account information.
- Content creation and publishing: AUTHORISE is a platform for users to create, upload, and publish and share written content such as stories, poetry, and articles. This feature allows users to create and publish their content on the platform.
- Reading and discovering content: This feature allows users to browse, search, and discover content on the platform, including popular stories, featured authors.
- Feedback and engagement: AUTHORISE is known for its engaged community of readers and writers. This feature allows users to leave comments, vote on stories, follow authors, and receive notifications about new content.
- Social and community features: AUTHORISE is a social platform that allows users to connect with other readers, writers and publishers. This feature includes the ability to message other users.