Software requirement specification (SRS) document template

Project name: Scriptoria

Date: 03/03/24

Version: 1.0.0

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Revision history			
Version	**Author**	**Version description**	**Date completed**
1.0.0	Omar Khalili	This version is the base of our website	10/03/24

Review history			
Approving party	**Version approved**	**Signature**	**Date**

Approval history			
Reviewer	**Version reviewed**	**Signature**	**Date**

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1 Introduction

Scriptoria is a platform accessible via the web that enables users to explore, read, collaborate, and distribute stories of diverse genres. This document provides a detailed description of the software requirements necessary for Scriptoria's features, functionality, and user interactions.

1.1 Product scope

- User registration and authentication
- Profile creation and customization
- Story creation, publishing, and management
- Reading stories in various formats (text, image, audio)
- Social features such as following, commenting, and liking stories
- Recommendation system for personalized story suggestions
- Community engagement through forums, groups, and discussions
- Monetization options for writers
- Administration and moderation tools for managing content and users

1.2 Product value

The product value of Scriptoria lies in its ability to provide a unique, collaborative, and enriching experience for both writers and readers within the realm of storytelling.

1.3 Intended audience

The intended users of Scriptoria encompass a diverse range of individuals who are both creators and consumers of written content.

1.4 General description

Allow your imagination to take place with our Wattpad-like website specific for comic book enthusiasts, anime fans, and storytellers alike.

2 Functional requirements

Design Specifications:

User Interface (UI) Design: The UI for Scriptoria should be user-friendly, aesthetically pleasing, and navigable for users with varying levels of expertise. Adaptive Design: The design of the platform should be responsive and adjust smoothly to different screen sizes and devices, including desktops and laptops. Uniform Design

Language: A consistent design language should be maintained across the platform to provide a unified user experience across all pages and functionalities.

Branding and Customization: Branding elements and customization options should be integrated to enable users to personalize their profiles and reading experiences.

Graphics Specifications:

Images and Icons: High-resolution images and icons should be employed to boost the platform's visual attractiveness and promote user interaction.

Operating System Specifications:

Web Compatibility: Scriptoria should be accessible via contemporary web browsers on various operating systems, including Windows, macOS, and Linux.

Limitations:

Data Privacy and Security: Scriptoria must comply with strict data privacy laws (e.g., GDPR, CCPA) and incorporate strong security measures to safeguard user data against unauthorized access, breaches, and cyber threats. Intellectual Property Rights: Copyright laws and intellectual property rights must be respected by providing mechanisms for authors to maintain ownership of their content and ensuring that users do not violate the rights of others when sharing or publishing content.

Third-Party Integrations: Dependence on third-party APIs and services (e.g., social media integration, payment gateways) imposes constraints related to the availability, reliability, and compatibility of these services with the Scriptoria platform.

Scalability and Performance: Ensure that the platform architecture is scalable to accommodate growth in user base and content volume while maintaining optimal performance and responsiveness under load.

Compliance Requirements: Scriptoria must comply with legal and regulatory requirements specific to the regions where it operates, including but not limited to tax regulations, content censorship laws, and financial transaction regulations.

Localization: Consider constraints related to localization and language support, ensuring that the platform is accessible to users from diverse linguistic backgrounds and cultural contexts.

Monetization Model: The choice of monetization model (e.g., ads, subscriptions, premium content) imposes constraints related to revenue generation, user engagement, and the balance between monetization and user experience.

3 External interface requirements

3.1 User interface requirements

1-Login and Registration Interface:

Users should be able to register for a new account or log in using existing credentials.
The interface should include input fields for username/email and password, with options for password recovery if needed.

2- Profile Management Interface:

Users should have access to a profile management interface to customize their profiles, including adding profile pictures, updating bios, and managing settings.
Interface should provide options for users to view and edit their personal information.

3- Story Creation and Editing Interface:

Writers should have a user-friendly interface for creating and editing stories, including options for formatting text, adding images, and organizing chapters.
The interface should support saving drafts, previewing content, and publishing stories.

4- Reading Interface:

Readers should have an intuitive interface for browsing and reading stories, with options for adjusting text size, font, and background color.
Interface should include features such as bookmarking, highlighting, and accessing story comments.

5- Search and Discovery Interface:

Users should be able to search for stories based on keywords, genres, or authors through a user-friendly search interface.
The interface should provide recommendations and suggestions based on user preferences.

3.2 Hardware interface requirements

1- Device Compatibility:

Scriptoria should be compatible with a range of hardware devices including desktop computers, laptops, tablets, and smartphones.
The platform should adapt to different screen sizes and resolutions to ensure optimal viewing and usability.

2- Minimum System Requirements:

Hardware requirements for accessing Scriptoria should be minimal to accommodate users with varying devices and configurations.
The platform should be optimized to perform efficiently on devices with limited processing power and memory.

3.3 Software interface requirements

1-Web Browser Compatibility:

Scriptoria should be compatible with major web browsers such as Google Chrome, Mozilla Firefox, Apple Safari, and Microsoft Edge.
The platform should function consistently across different browsers, ensuring a seamless user experience.

2- Operating System Compatibility:

Scriptoria should be accessible across different operating systems including Windows, macOS, Linux, iOS, and Android.
The platform should be designed to operate smoothly on various operating system versions and configurations.

3.4Communication interface requirements

1- API Integration:

Scriptoria may integrate with external APIs for functionalities such as social media sharing, and payment processing.
The communication interface should facilitate secure and efficient data exchange between Scriptoria and external services.

2- Real-Time Communication:

Scriptoria may incorporate real-time communication features such as chat, notifications, and updates.
The communication interface should support instant delivery of messages and notifications to users in real-time.
These external interface requirements ensure that Scriptoria offers a seamless and user-friendly experience across different devices, platforms, and communication channels.

4 Non-functional requirements

4.1 Security

1- Data Encryption: User data, including login credentials and personal information, should be encrypted both in transit and at rest to ensure confidentiality and prevent unauthorized access.

2- Authentication: Secure mechanisms for user authentication should be.

4.2 Capacity

Scriptoria should support a large number of simultaneous user sessions and API requests without experiencing performance bottlenecks.

4.3 Compatibility

1- Cross-Browser Compatibility: Scriptoria should be compatible with popular web browsers including Google Chrome, Mozilla Firefox, Apple Safari, and Microsoft Edge.

2- Device Compatibility: The platform should be responsive and adaptable to different devices and screen sizes, including desktops, laptops, tablets, and smartphones.

4.4 Reliability

1- Availability: Scriptoria should strive for high availability, with minimal downtime for maintenance or unexpected outages.

2- Fault Tolerance: The system should be designed with redundancy and failover mechanisms to mitigate the impact of hardware failures or service disruptions.

4.5 Scalability

Scriptoria must accommodate a growing user base and content volume without sacrificing performance.

4.6 Maintainability

1- Modularity: The system architecture should be modular and well-organized to facilitate easier maintenance, updates, and future enhancements.

2- Documentation: Comprehensive documentation should be provided for developers, administrators, and users to understand the system's architecture, features, and usage instructions.

3- Version Control: Source code and configuration files should be managed using version control systems to track changes and facilitate collaboration among development teams.

4.7 Usability

1- Intuitiveness: The user interface should be intuitive and easy to navigate, with clear labels, consistent design patterns, and minimal cognitive load.

3- Multilingual Support: The platform should support multiple languages to cater to users from diverse linguistic backgrounds.

4.8 Other

Compliance:

1-Copyright Compliance: The platform should enforce copyright policies and intellectual property rights to prevent unauthorized distribution or reproduction of copyrighted content.

5 Definitions and acronyms
