

Software Requirement Specification(SRS)

Document

Of

Bhaktivedanta Store



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Submitted By

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Review & Approval

Requirements Document Approval History

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1. Introduction

1.1 Purpose

Bhaktivedanta Store is developed for convenient and accessible digital platform for users to engage with their faith. Its main goal is to teach and share detailed knowledge about Vedic science and Vaisnava Sampradaya and to promote the principles and values of Sanatan Dharma through educational content and resources with the help of Gaudiya Philosophy. The software offers a comprehensive repository of Vedic scriptures, including translations and interpretations of key texts like the Gitas from ISKCON. It also features audio libraries containing mantras, slokhas, and other religious materials. The application also needs to support multiple languages, particularly Nepali and English, to cater to the diverse linguistic needs of ISKCON followers in Nepal. Ensuring that translations of religious texts are both accurate and culturally sensitive is crucial. Additionally, the application must operate effectively in areas with varying levels of internet connectivity, as followers in remote or rural regions of Nepal may have limited access to the internet, which could affect their ability to fully utilize features like streaming audio, video content, or virtual religious services.

1.2 Document Conventions

The IEEE template for System Requirement Specification Documents was used to create this document.

1.3 Intended Audience

- ISKCON Nepal devotees
- Spiritual Seekers
- Nepali and English Speaker
- Developers and testers who want to contribute to the project by developing it further or fixing bugs

- Project Manager and Stakeholders who will be managing and providing features recommendation for the software.

1.4 Scope

Bhaktivedanta Store web application encompasses several key areas. It provides users with digital access to a vast library of Prabhupada books (Non-Sastras) and translated scriptures including Gita and Bhagwatam by AC Bhaktivedanta Swami. The application also features a diverse collection of audio resources of PDF books and gift shop related to Vaisanava products. Advance search system helps finding related books and products using keywords and recommendation functionality.

1.5 References

- IEEE Template for System Requirement Specification Documents
<https://goo.gl/nsUFwy>
- ISKCON Nepal <https://iskconnepal.org/>
- Esewa API <https://developer.esewa.com.np/>

2. General Description

2.1 Product Prospective

Bhaktivedanta Store web application is designed to serve as a comprehensive digital platform tailored specifically for ISKCON Nepal. It aims to bridge the gap between traditional religious practices and modern technology by offering a range of features that enhance accessibility and engagement with Vedic and cultural knowledge.

2.2 Product Features

Digital Library:

- Access to a broad collection of Vedic scriptures
- ISKCON-specific translations and commentaries

- Recording to mantras included with pdf for subscription
- Teachings and lectures by ISKCON gurus and scholars through youtube linkage interface

Advanced Search Facilities:

- Keyboard search across books
- Filters for search by category
- Bookmarking for favorite content

User Accounts and Subscriptions:

- Registration and login System
- Subscription management for premium content
- Profile Setting

Help:

- About: Displays the logo of Bhaktivedanta Store, which licenses are being used, organisation and other information.

User Activity Tracking:

- History of viewed and interacted content
- Notifications and reminders for upcoming events
- Content recommendations based on user interests

Main Pages:

- Home Page: Overview of the application and featured content
- Book Library: Access to the collection of different books
- Subscription and Access: Subscription plans and pricing, access to premium based and non-premium content based in subscription
- Courses: Access to newly updated courses by ISKCON Nepal
- Book Store: Selling of books through online from organization
- Gift Page: Gift related to devotion for selling

- Settings Page: User profile, name, description and logout

Courses:

- Recommendation of courses according to user history
- Form fillup system after click in enroll button

Gift Categories:

- More focus on "Customers who bought this also bought" suggestions
- Categorized product listings (e.g., deity statues, books, devotional items, clothing, jewelry, prasad)
- Special collections for festivals, events, or particular deities (e.g., Janmashtami specials, Radha-Krishna items)

Product details page for gift:

- Detailed product pages with descriptions, images, dimensions, and materials.
- Customer reviews and ratings

Menu Bar:

- Home
- Library
- Courses
- Book Store
- Gift Shop
- More

2.3 Admin Features

User Management:

- Registration and login management

- Subscription management for accessing translated Sastras and other religious contents

Content Management:

- Upload and manage PDFs, audio files, and other educational resources related to ISKCON
- Organize and categorize content for easy access and searchability

Edit Book:

- Metadata manage: Edit book title, description, cover image, Category

Edit Course:

- Update course titles, instructors, cover image and course objective
- Modify course schedules, start dates, and enrollment periods

Edit Event:

- Edit event titles, dates, times, and locations

Edit Youtube video:

- Edit video titles, descriptions, tags, and associated scriptures or topics
- Upload, change, or remove custom video thumbnails

2.4 User Class and Characteristics

- General customers and devotees who are interested in purchasing items that enhance their spiritual practice (e.g., deity statues, books, devotional items)
- ISKCON Store Admin handles order management

2.5 Operating Environment

2.5.1 For Web Application

- Any browser and operating system

2.5.2 For Mobile Application

- Support on Android 7.0 and above
- Support on IOS 12 and above

2.6 Constraints

- API request: 100 request per 15 minutes
- Third party integration limits

2.7 Assumptions and dependencies

- The system assume user to have access of modern devices
- The system will provide all necessary spiritual content, product details in a timely manner
- The application depends upon third party payment gateways for processing
- The success of the system relies on customer engagement

2.8 User Documentation

- User Manuals
- Architecture Review Document(ARD)
- Data Architecture Document(DAD)
- Features Checklist

3. System Requirements

3.1 Functional Requirements

3.1.1 Authentication System

Authentication systems are a software protective barrier. It ensures that the correct users enter the system and have access to the correct information.

Functional Requirements:

| S.N. | Requirement | Priority |
|-------------|-------------------------------|-----------------|
| REQ-1 | Email/Password Authentication | Must Have |
| REQ-2 | Reset Password via Email | Must Have |
| REQ-3 | Multi-Factor Authentication | Nice to Have |

The user who want to login must complete the process of registration and if the user is authorized from system database then only it can access after the login process. Also, if a user forgets their password, the reset password link is sent to the respective user by web-app itself to their email.

3.1.2 Online Sync

The Online Sync service provides continuous online backup of user's information and sync them in cloud storage. Users can go online and sync the data to the server and it syncs back to a new mobile if user sign in with same account or it syncs the data to mobile if they change anything in their cloud from server.

Functional Requirements:

| S.N. | Requirement | Priority |
|-------------|--------------------|-----------------|
| REQ-1 | Sync Data Online | Should Have |

Offline activities performed in Bhaktivedanta Store will automatically be updated once the internet has been connected. Any changes made will automatically be changed in both mobile application and web-application.

3.1.3 Content Management

User can access a wide range of religious books from ISKCON which can be either translated or Prabhupada written books. It ensures that users can easily access and interact with essential content.

Functional Requirements:

| S.N. | Requirement | Priority |
|-------------|---|-----------------|
| REQ-1 | Access to translated Sastras | Must Have |
| REQ-2 | Access to Prabhupada books in both purchasing and subscription form | Must Have |
| REQ-3 | Access to premium content for subscription | Must Have |
| REQ-4 | Course Enrollment | Must Have |
| REQ-5 | Advance search with product filters | Must Have |
| REQ-6 | View history of digital content purchases and course enrollments | Should Have |
| REQ-7 | Save books, course and mantras to favorites | Nice to Have |

Users can read translated versions of Vedic scriptures directly on the platform only through subscription. Users have the option to either purchase or subscribe to Prabhupada's books. This flexibility allows users to choose between one-time purchases or ongoing access through a subscription model. Users can enroll in courses offered on the platform. They can browse available courses, register for them. Users can perform detailed searches and apply filters to find specific content or products. Advanced search options help users efficiently locate relevant books, courses, and other materials based on various criteria.

3.1.4 Search Bar

A search bar is an input field or text box which is designed to help users efficiently locate religious content or products by typing relevant keywords. The advanced filters provide additional options to refine the search results based on various attributes like content type, language, price, or availability, depending on the platform.

Functional Requirements:

| S.N. | Requirement | Priority |
|-------------|---|-----------------|
| REQ-1 | Search for books, courses, scriptures by keywords. | Must Have |
| REQ-2 | Filter by content type (e.g., books, courses) | Must Have |
| REQ-3 | Popularity Filter: Sort results by popularity or user ratings | Should Have |
| REQ-4 | Save search preferences for future use | Nice to Have |

Users should be able to search for various types of content such as books, courses, scriptures. It should be able to filter search results by content type. Users should be able to sort search results by popularity or user ratings, helping them discover the most widely appreciated content.

4. External Interface Requirements

4.1 User Interfaces

- This software shall provide a user-friendly and attractive graphical interface for the user where they can easily perform actions implementing Google's Material UI.

4.2 Hardware Interfaces

- Any device that has a web browser can run the application
- Any android device running the android version can run the application

4.3 Communications Interfaces

- Bhaktivedanta Store shall use the HTTPs protocol for communication over the internet.

4.4 Software Interfaces

- Operating System: Windows 7 and above
- Database: mongo DB
- Tools: HTML5, CSS, JavaScript, PHP

5. Non-Functional Requirements

5.1 Performance Requirements

- Response Time: This system shall provide a response within 2 seconds after any actions are taken.
- User-Interface: The UI screen shall respond within 5 seconds.
- Reduced real time latency

5.2 Safety Requirements

- To ensure that none of Bhaktivedanta Store's users loses any data due to a crash or a bug of some kind while using it, the developer team shall update Bhaktivedanta Store regularly. There shall be a bug tracker available where users can report any bugs, they have encountered so that the developers can fix it in the next release.
- This application shall strictly maintain privacy policy related to user and data. The privacy policy should be abided by the country's IT law and any concerned authorities.

5.3 Software Quality Attributes

5.3.1 Maintainability

- Errors: The system shall keep an error log of all the issues.
- Routine Back Up: The system shall backup database on daily or weekly basis.

5.3.2 Software Quality

A framework of good quality shall be used to produce bug-free and robust software which will contain all the necessary requirements for user satisfaction.

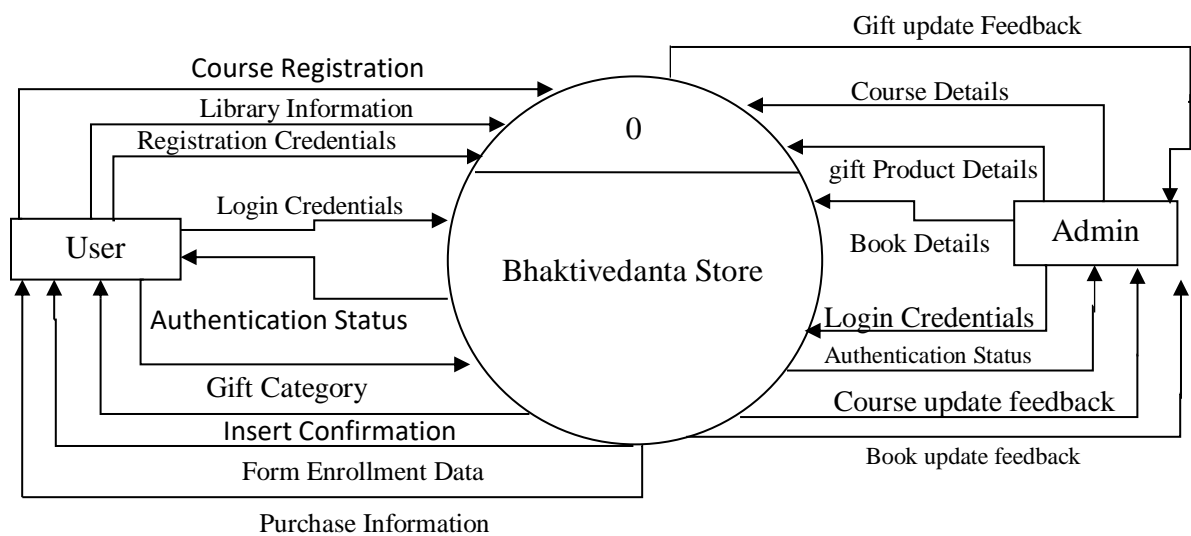
5.3.3 Availability

This system shall be available all the time.

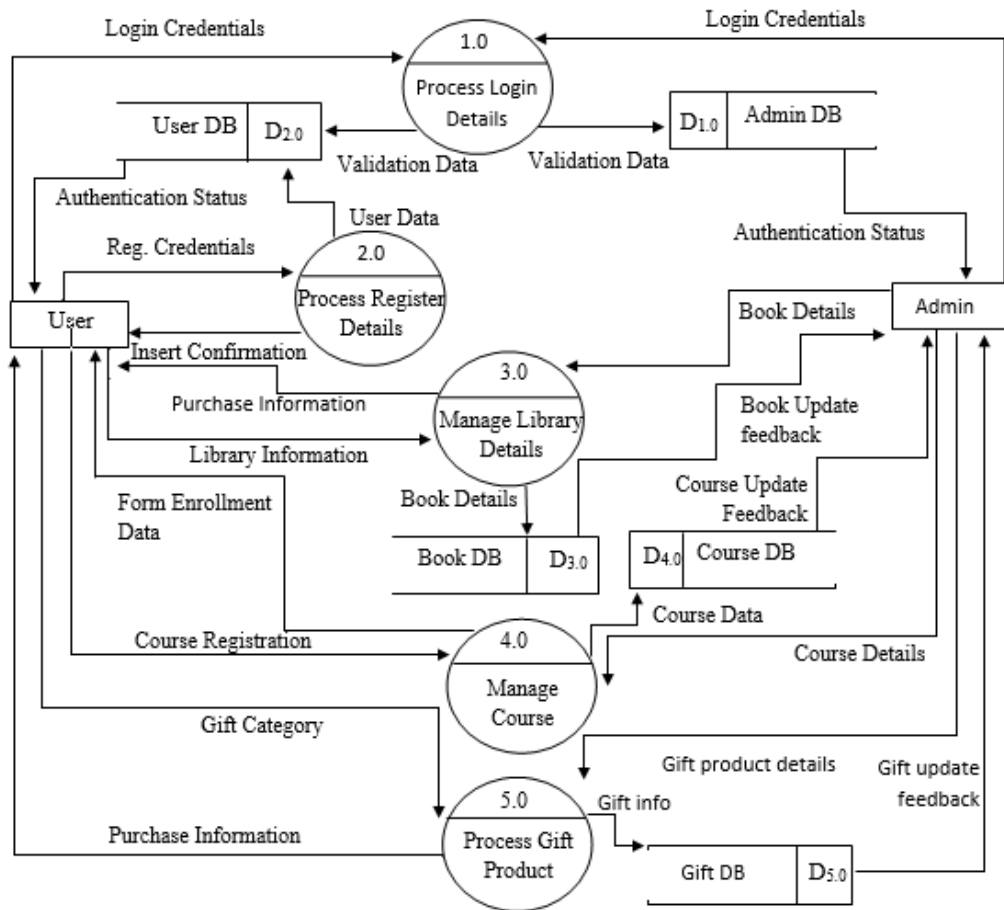
6. Diagram

6.1 Data Flow Diagram (DFD)

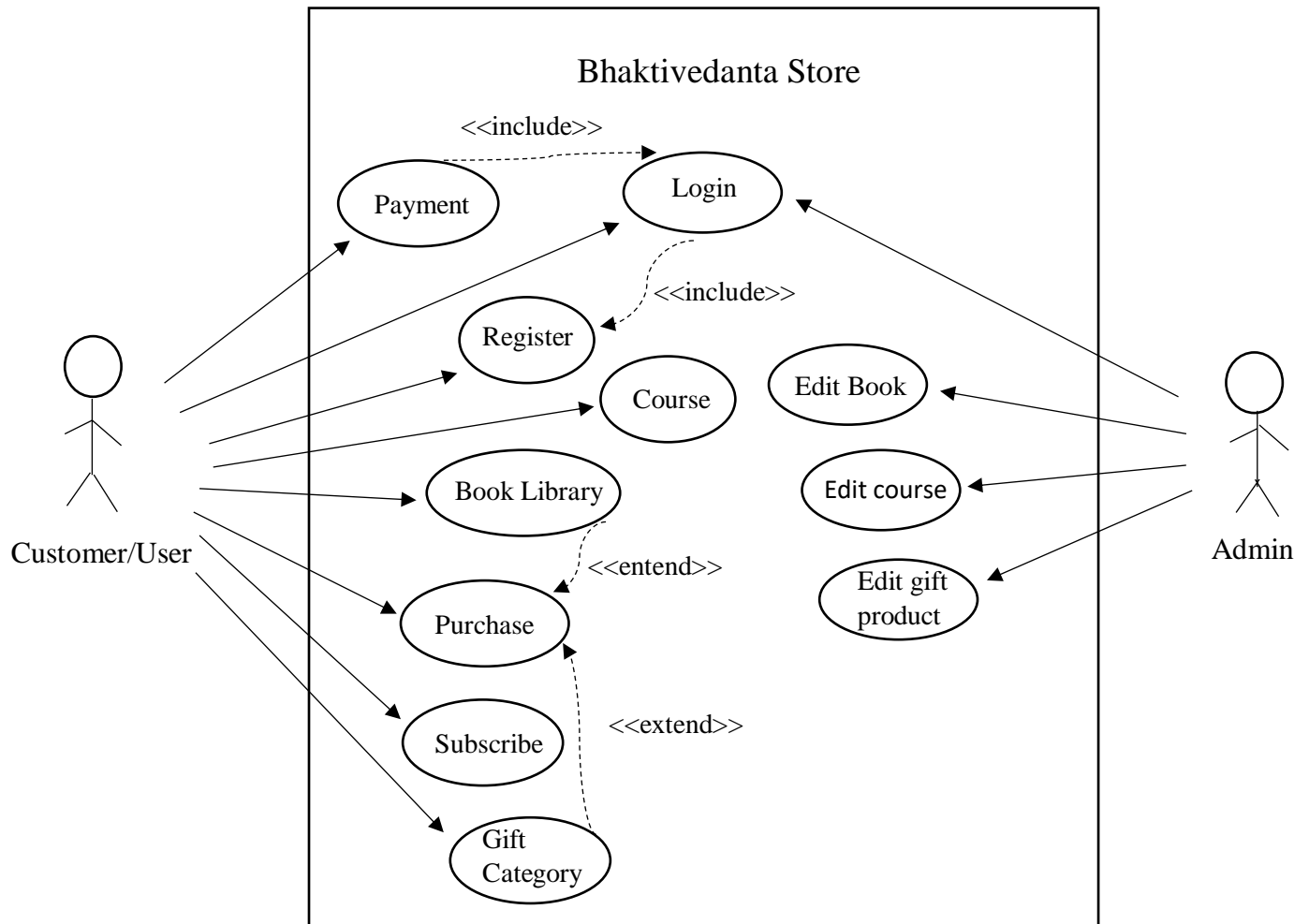
6.1.1 Level 0 (Context Diagram)



6.1.2 Level 1



6.2 Use Case Diagram



6.3 Entity Relationship Diagram

