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Document ID: XXXXXX

Author(s): SOWMIYA V

Version: 0.2

Date: April 5,2024

1. Objective and Scope

The objective of the KnowledgeHub website is to provide a comprehensive online education platform that offers a diverse range of high-quality courses to learners worldwide. The primary goal is to facilitate knowledge sharing, skill development, and lifelong learning by leveraging digital technologies and innovative teaching methodologies. Through the KnowledgeHub platform, users can access educational resources, enroll in courses, interact with instructors and peers, and enhance their expertise in various domains.

The scope of the product includes the following basic features:

Courses: A wide range of courses on various subjects like technology, business, arts, science, humanities, and personal development will be available.

Engagement: Students can actively participate through interactive materials, assignments, quizzes, and discussion forums to connect with course content and other learners.

Instructors: Professionals and experts can create and teach courses, sharing their knowledge globally.

Administration: Administrators will manage user accounts, course content, payments, and website settings.

Accessibility: The platform will prioritize features for users with disabilities, ensuring everyone can use it comfortably.

Security: Strong security measures will safeguard user data and prevent unauthorized access.

Scalability: The website will efficiently handle a growing number of users and courses without compromising performance.

2. Project End Users

• Students/Learners: Individuals taking courses to enhance their skills.

• Instructors/Content Creators: Professionals creating and delivering courses.

• Administrators/Platform Managers: Personnel managing the platform.

• Support Staff: Assisting users with inquiries and technical issues.

• Organizations/Institutions: Using the platform for training or education.

• General Public: Accessing publicly available information

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[Start]
   |
   V
User Registration --> Validate Registration Data --> Save User Data
   |
   V
User Login --> Validate Credentials --> Redirect to Dashboard
   |
   V
Dashboard --> Browse Courses --> Select Course
   |
   V
Course Details Page --> Enroll in Course --> Payment (if applicable)
   |
   V
Payment Gateway --> Process Payment --> Enroll User
   |
   V
Course Content Page --> Access Lectures, Assignments, Quizzes
   |
   V
Lecture --> Watch Lecture --> Complete Lecture
   |
   V
Assignment --> View Assignment --> Submit Assignment
   |
   V
Quiz --> Take Quiz --> Submit Quiz

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V

Course Progress --> View Progress --> Continue Learning

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V

Discussion Forum --> View Discussions --> Participate in Discussion

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User Profile --> Update Profile Information --> Save Changes

|

V

Support Center --> Contact Support --> Receive Assistance

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[End]

3. Features

Functional Requirements

3.1 Student/Learner Functional Requirements

Browse Courses:

Students should be able to browse and search for courses based on categories, keywords, or instructors.

Enroll in Courses:

Students should have the option to enroll in courses of interest, either for free or by making a payment.

Access Course Content:

Enrolled students should be able to access course materials, including lectures, assignments, quizzes, and supplementary resources.

Participate in Discussions:

Students should be able to participate in course discussions, ask questions, and interact with instructors and fellow learners.

3.2 Instructor/Content Creator Functional Requirements

Create Courses:

Instructors should be able to create and customize courses, including adding lectures, assignments, quizzes, and other learning materials.

Manage Course Content:

Instructors should have the ability to edit, update, and organize course content as needed.

Communicate with Students:

Instructors should be able to communicate with students through announcements, messages, and discussion forums.

3.3 Administrator/Platform Manager Functional Requirements

User Management:

Administrators should be able to manage user accounts, including registration, authentication, and permissions.

Course Management:

Administrators should have oversight of course offerings, including adding, removing, and updating courses.

Website Settings:

Administrators should be able to configure website settings, such as themes, language options, and privacy settings.

3.4 Support Staff Functional Requirements

User Support:

Support staff should be able to assist users with inquiries, technical issues, and other support-related matters through a ticketing system or live chat.

Issue Resolution:

Support staff should have access to tools and resources to efficiently resolve user issues and provide timely assistance.

3.5 Organization/Institution Functional Requirements

Customization:

Organizations/institutions should have the option to customize the platform to align with their branding and requirements.

Bulk Enrollment:

Organizations/institutions should be able to enroll multiple users in courses in bulk, manage group memberships, and track progress.

3.6 General Public Functional Requirements

Access Public Information:

The general public should be able to access publicly available information about courses, instructors, and the platform's services without requiring authentication.

4. Non-Functional Requirements

4.1 Security Requirements

Data Encryption:

User data, including personal information and payment details, should be encrypted to ensure confidentiality and integrity.

Access Control:

Role-based access control (RBAC) should be implemented to restrict unauthorized access to sensitive functionalities and data.

4.2 Performance Requirements

Scalability:

The platform should be scalable to accommodate a growing user base and increasing course offerings without compromising performance.

Response Time:

The website should have fast response times for loading pages, accessing course content, and submitting interactions to provide a seamless user experience.

4.3 Usability Requirements

Intuitive Interface:

The user interface should be intuitive and easy to navigate for users of all levels, with clear instructions and minimal learning curve.

Accessibility:

The platform should be accessible to users with disabilities, complying with web accessibility standards and guidelines.

4.Reports

The Software Requirements Specification (SRS) document provides a comprehensive overview of the functional and non-functional requirements for the KnowledgeHub website. By adhering to these requirements, the development team can ensure the successful implementation of the platform, meeting the diverse needs of its user base and providing a valuable learning experience.