

Project Synopsis Document

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Project Title	Learning Management System with Personalised Recommendations
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Description

The project aims to create a Learning Management System (LMS) that provides users with access to various self-learning materials. It will include an AI-powered recommendation engine that personalizes learning content suggestions based on the user's skill level and interests.

Profile of Users

Learners

Characteristics:

- Interested in developing leadership skills and enhancing personal growth through self-paced learning.
- Have different levels of expertise (beginner, intermediate, advanced) that affect the content they prefer.
- Value a personalized learning experience where they can select topics of interest and adjust content difficulty.
- Use AI-powered recommendations to browse and explore learning materials that suit their skill level and interests.
- Prefer a simple, intuitive interface that allows them to search for content by category, tags, or level easily.
- Appreciate the ability to track their progress with reports and visual graphs to see how much they've completed.

Implications/System Tailoring:

The system must provide personalized recommendations, content filtering, and progress tracking features that adapt to the learner's profile and preferences.

Coaches

Characteristics:

- Experts in leadership training, aiming to share knowledge with learners through various content formats (videos, blogs, assignments).
- Responsible for uploading learning materials and creating assignments for learners.
- Monitor learners' progress and activity, ensuring they are on track with their learning goals.
- Require a user-friendly interface to manage and upload content efficiently and monitor learner information.

Implications/System Tailoring:

The system should enable easy content uploads, assignment creation, and progress monitoring with an intuitive dashboard for managing learners.

Admins

Characteristics:

- Oversee the overall functioning of the LMS, ensuring smooth operation and efficient content management.
- Responsible for uploading, categorizing, and managing learning materials, ensuring they are relevant and accessible to learners.
- Track user engagement, analyze content performance, and use analytics to improve the learning experience.
- Ensure the LMS content remains organized, up-to-date, and well-tagged for easy searching and filtering.

Implications/System Tailoring:

The system should offer tools for content management, user activity tracking, and analytics to help admins ensure the LMS runs efficiently and remains up-to-date.

Usage Model

The LMS system will have the following typical interactions:

Learner Usage Description

- **Register/Login to Create a Personalized Profile**
Learners can sign up or log in to set up a profile that helps create a learning experience tailored to their preferences and needs.
- **Customize Interests, Skills, and Difficulty Level**
Learners can personalize their learning experience by selecting topics of interest, indicating their current skill level (beginner, intermediate, advanced), and choosing the difficulty level of the content they prefer. This helps the system recommend relevant materials.
- **Use the Recommendation Engine to Browse Suggested Materials**
Learners can explore learning materials suggested by the recommendation engine, which analyzes their interests, difficulty level, and previous interactions to provide personalized content tailored to their needs.
- **Search or Filter Content by Category, Tags, or Level**
Learners can search for specific content using keywords or narrow results with filters based on level, category, and tags, making it easy to find relevant materials.
- **View Progress Reports to Track Completed Materials**
Learners can track their progress by viewing reports that show which materials they have completed. These reports include visual graphs to help them easily understand their learning journey and see how much they've accomplished over time.

Coach Usage Description:

- **Login**
Coaches log in to the system to access their dashboard and manage their activities.
- **Upload Content**
Coaches upload learning materials such as videos, blogs, and assignments to the system.
- **Create Assignments**
Coaches can create and assign tasks or assignments to learners under their supervision.
- **Monitor Learners' Information**
Coaches can view the information and progress of all the learners assigned to them, helping them track individual performance.

Admin Usage Description:

- **Register/Login to Access the Admin Dashboard:**
Admins log in to the system using their credentials to access the dashboard.
- **Upload and Manage Learning Materials:**
Admins can upload new learning materials, such as videos, blogs, or PDFs, directly to the system. They can edit or update existing content and remove outdated or irrelevant materials when necessary.
- **Categorize Learning Materials:**
Admins assign categories, difficulty levels, and tags to each material to ensure they are well-organized and easily searchable by learners.
- **Monitor User Activity:**
Admins track user engagement by reviewing data on how learners interact with the materials, such as views, likes, or completion rates.
- **Analyze Content Performance:**
Using content analytics, admins evaluate the effectiveness of learning materials by assessing metrics like popularity, average time spent, and learner feedback, helping them improve the quality and relevance of content.