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COLLEGE OF ENGINEERING
(A U T O N O M O U S)

SKILLVOYAGE

20INMCA509 - Mini Project 2

Scrum Master

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ABSTRCT

SkillVoyage is an innovative online platform designed to provide a comprehensive solution for learning and showcasing various talents, including dance, music, drawing, karate, and more. The platform caters to the needs of students, guides (instructors), and administrators, offering a seamless and efficient environment for talent development and community engagement. By leveraging modern technology, SkillVoyage aims to foster a vibrant community where users can learn new skills, showcase their talents, and connect with like-minded individuals.

SkillVoyage serves as a centralized hub for learning and showcasing a wide range of talents. It offers structured courses, video tutorials, and a showcase section for students to display their skills. The platform supports interactive learning through feedback mechanisms, ensuring a holistic development experience. Additionally, SkillVoyage facilitates the renting and buying of equipment related to specific talents and provides notifications of upcoming events in relevant categories. By empowering students, guides, and administrators with intuitive tools and functionalities, SkillVoyage aims to nurture talent and creativity within a supportive community.

SkillVoyage also leverages cutting-edge technologies such as machine learning (ML) and natural language processing (NLP) to optimize learning experiences and enhance user engagement. By integrating ML algorithms for personalized course recommendations, predictive analytics, and NLP capabilities for content summarization and interactive assistance, SkillVoyage aims to revolutionize the way talents are learned and showcased. Additionally, SkillVoyage includes a certificate generation feature to recognize and validate students' achievements upon course completion. The platform's advanced features are designed to provide a personalized, efficient, and engaging environment for talent development.

MINI PROJECT - II

Modules

1. Admin
2. Students
3. Guides (Instructors)

Modules and functionalities

1. **Admin:**
 - **Secure Login:** Administrative access to system functionalities.
 - **User Management:** Review and manage student and guide registrations.
 - **Content Moderation:** Approve or disapprove courses and showcase content.
 - **Reporting and Analytics:** Monitor platform usage, engagement, and feedback.
 - **Notification System:** Communicate updates, reminders, and announcements effectively.
 - **Event Management:** Manage platform events, webinars, and workshops.

2. Students:

- **Registration/Login:** Simple and secure user registration and login process.
- **Profile Management:** Update personal information and preferences.
- **Browse Courses:** Search and enroll in various talent courses.
- **Learning Dashboard:** Access enrolled courses, track progress, and view upcoming sessions.
- **Video Tutorials:** Stream and download course videos.
- **Showcase:** Upload videos or images to showcase their talents.
- **Community Interaction:** Engage in forums and group discussions.
- **Rent/Buy Equipment:** Browse and rent or purchase equipment related to their talents.
- **Event Notifications:** Receive notifications about upcoming events in their specific talent categories.

3. Guides (Instructors):

- **Registration/Login:** Secure registration and login for instructors.
- **Profile Management:** Update professional information and preferences.
- **Course Creation:** Create and manage courses, including uploading video tutorials and materials.
- **Student Interaction:** Communicate with students via messaging or forums.
- **Feedback & Assessment:** Provide feedback on assignments and conduct assessments.
- **Profile Showcase:** Display their skills, qualifications, and achievements.

MAIN PROJECT

Detailed functionalities

- **Personalized Course Recommendation System:**
 - **Description:** ML-based recommendation system suggesting courses based on user interests and past activities.
 - **Functionalities:** User-friendly interface, personalized recommendations, and analysis of user behavior and course data.
- **Sentiment Analysis for Feedback:**
 - **Description:** NLP-based sentiment analysis of course feedback to gauge user satisfaction and identify areas for improvement.
 - **Functionalities:** NLP algorithms for parsing textual feedback, categorizing sentiments, and providing actionable insights.
- **Automated Content Summarization:**
 - **Description:** NLP algorithms summarizing course descriptions and content for quick and informative overviews.
 - **Functionalities:** Extraction of key information and generation of tailored summaries for user preferences.
- **Progress Prediction:**
 - **Description:** ML models predicting student progress and performance based on historical data and learning patterns.

- **Functionalities:** ML algorithms analyzing learning data and providing insights for personalized learning paths.
- **Interactive Chatbot:**
 - **Description:** AI-powered chatbot offering real-time assistance and information related to course content, registration, and platform navigation.
 - **Functionalities:** NLP integration for natural language understanding, conversational interactions, and support via web or mobile interface.
- **Certificate Generation:**
 - **Description:** Automated generation of certificates upon course completion to validate students' achievements.
 - **Functionalities:** Customizable certificate templates, automated issuance upon completion of course requirements, and secure storage and retrieval of certificates.
- **Event Notifications:**
 - **Description:** Provide users with notifications about upcoming events related to their specific talent categories.
 - **Functionalities:** Personalized event notifications, calendar integration, and event reminders.





