Devsinz

TECHVERSITY & DIGITAL TECH STUDIO

PROJECT
FRONT-END
INTERNS

SEPTEMBER 2024

To successfully complete the comprehensive e-learning platform project within one month, it will be divided into four weekly modules. Each module will focus on specific aspects of the platform's development. The final submission deadline for the entire project is September 20th.

OUR
INTRODUCTION

Introduction :
Devsinz is a global leader in technology education and empowerment, dedicated to breaking barriers and fostering talent worldwide through innovative IT and AI training programs.

Mission :
Our mission is to empower individuals and communities globally through cutting-edge education, technology, and social impact initiatives. We aim to dismantle barriers to education, equipping learners with skills for the digital age and fostering innovation, inclusion, and social responsibility.

Our Vision :
Vision To be a global leader in technology education, known for excellence, diversity, and sustainability. We envision a world where talent flourishes without boundaries, and opportunities are accessible to all through education, innovation, and collaboration.

Industry Outlook :
The IT industry is poised for significant growth driven by technological advancements, digital transformation, and evolving business needs, creating ample opportunities for innovation and career advancement.

Comprehensive E-Learning Platform

Project Deadline : 20 September 2024

Important :
Please make sure to thoroughly read through all the documentation before starting the project.

Objective :
Develop a fully functional e-learning platform that offers various courses, user management, and interactive learning features. This project is divided into four modules, each to be completed within a week.

Project Overview :

Market Value :
High demand due to the growing trend of online education. It can be sold to educational institutions, corporations for employee training, or as a standalone service.

Institutional Benefit :
Can be used by your institute to offer online courses, manage students, and track their progress.

Module Breakdown :

Module 1 : User Authentication and Dashboard

Objective : Implement user authentication and create a basic user dashboard.

Features :

1) User Authentication :

- User registration and login
- Social media login options (Google, Facebook)
- Admin and user roles

2) User Dashboard :

- Profile management
- Overview of enrolled courses
- Basic navigation structure

Tasks :

- Set up project structure and initialize with HTML, CSS, and JavaScript.
- Implement authentication system using Firebase or similar.
- Design and develop the user dashboard layout.

Deliverables :

- Functional login and registration pages.
- Basic user dashboard with profile management.

Module 2 : Course Management System

Objective : Create a system for managing courses, including adding, editing, and deleting courses.

Features :

1) Course Management :

- Admin interface for course management
- Course categories and tags
- Detailed course descriptions

2) Multimedia Content Support :

- Ability to add videos, PDFs, quizzes

Tasks :

- Develop the admin interface for course management.
- Implement functionality for adding, editing, and deleting courses.
- Integrate multimedia content support.

Deliverables :

- Admin panel for managing courses.
- Functional course management system.

Module 3 : Interactive Learning and User Progress

Objective : Implement interactive learning features and track user progress.

Features :

1) Interactive Learning :

- Video lectures with playback options
- Quizzes and assignments

2) Progress Tracking :

- Track course progress
- Generate certificates for completed courses

Tasks :

- Develop interactive learning components (video player, quiz system).
- Implement progress tracking and certification system.

Deliverables :

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- Interactive learning interface.
- Functional progress tracking and certificate generation.

Module 4 : Notifications and Final Integration

Objective : Add notification system and integrate all modules into a cohesive platform.

Features :

1) Notifications :

- Email and in-app notifications for course updates, deadlines

2) Final Integration :

- Ensure all modules work seamlessly together
- Perform extensive testing and bug fixing

Tasks :

- Develop notification system.
- Integrate all modules into the main platform.
- Conduct thorough testing and fix any issues.

Deliverables :

- Notification system.
- Fully integrated e-learning platform.
- Comprehensive testing and final adjustments.

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Project Documentation Structure

Project Plan :

- Week 1: User Authentication and Dashboard
- Week 2: Course Management System
- Week 3: Interactive Learning and User Progress
- Week 4: Notifications and Final Integration

Design Mockups :

- Login and Registration Screens
- User Dashboard
- Admin Course Management Panel
- Interactive Learning Interface

Codebase :

- index.html: Main entry point
- auth.js: Handles user authentication
- dashboard.js: User dashboard functionality
- course-management.js: Admin course management
- learning.js: Interactive learning components
- notifications.js: Notification system

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Thank You

Thank you for completing your internship with us. Your dedication and contributions have been invaluable. We hope this experience has enriched your skills and laid a strong foundation for your future in IT. Best wishes for your continued growth.

Submission Guidelines :

- Complete the assignment by 20th September 2024
- The assignment is finished by the end of the internship.
- Submit the assignment by 12:00 PM on the last day of the internship month 20th September 2024.
- Upload all project files to a GitHub repository.
- Include a detailed project description and instructions for running the project.
- Create a video demonstrating the functionality of the e-learning platform.
- Share the video on LinkedIn, mentioning the company and your supervising teacher.
- Submit a .rar file containing all project assets.

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PROJECT
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JULY 2024

To successfully complete the comprehensive e-learning platform project within one month, it will be divided into four weekly modules. Each module will focus on specific aspects of the platform's development. The final submission deadline for the entire project is August 12th.

DATE :
13 February 2024

ASSIGNED BY :
Devsinz Intern Connect

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About
Company

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Industry Outlook :
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Comprehensive Chat Application with Audio And Live Video Calling

Project Deadline : 12th August 2024

Important :

Please make sure to thoroughly read through all the documentation before starting the project.

Objective :

The objective of this internship project is to develop a comprehensive Skype Clone Application that allows users to communicate via text, voice, and video. This project is divided into four modules, each with specific features and tasks to be completed.

Project Overview :

This Comprehensive Chat Application will enable users to communicate through text messaging, voice calls, and video calls. The app will include user authentication, real-time communication features, and a contact management system.

Module Breakdown :

Module 1: User Authentication and Profile Management

Objective:

Implement secure user authentication and profile management.

Features:

- User registration (email, social media)
- User login and logout
- User profile setup (profile picture, status message)

Tasks:

1. Set up user authentication system.
2. Develop registration and login interfaces.
3. Create user profile management functionality.
4. Implement security measures for user data.

Deliverables:

- Functional user registration and login system.
- User profile setup feature.
- Documentation on how to use the authentication and profile management features.

Module 2:Text Messaging

Objective:

Develop real-time text messaging functionality.

Features:

- One-on-one text messaging
- Group chat functionality
- Message status indicators (sent, delivered, read)

Tasks:

1. Implement real-time messaging backend.
2. Develop user interface for one-on-one and group chats.
3. Add message status indicators.
4. Ensure secure data transmission.

Deliverables:

- Functional one-on-one and group chat system.
- Message status indicators.
- Documentation on the messaging system.

Module 3: Voice and Video Calling

Objective:

Implement real-time voice and video calling features.
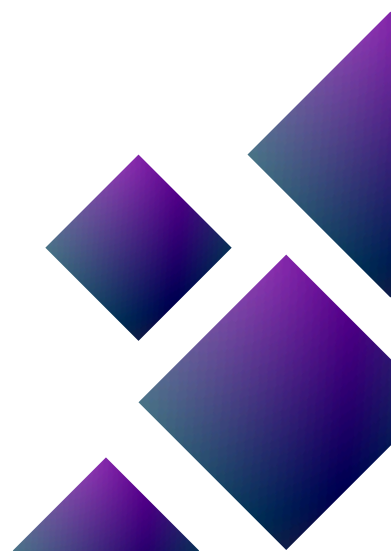
Features:

- One-on-one voice calls
- One-on-one video calls
- Call status indicators (calling, connected, ended)

Tasks:

1. Integrate WebRTC for real-time communication.
2. Develop user interface for voice and video calls.
3. Implement call status indicators.
4. Ensure low-latency and high-quality communication.

Deliverables:

- Functional voice and video calling system.
- Call status indicators.
- Documentation on the voice and video calling features.

Module 4: Contact Management and Notifications

Objective:

Develop contact management system and notification features.

Features:

- Add, remove, and block contacts
- Real-time presence indicators (online, offline)
- Notifications for messages and calls

Tasks:

1. Implement contact management backend.
2. Develop user interface for managing contacts.
3. Add real-time presence indicators.
4. Implement notification system for new messages and incoming calls.

Deliverables:

- Functional contact management system.
- Real-time presence indicators.
- Notification system.
- Documentation on contact management and notifications

Project Documentation Structure

Project Plan:

Detailed description of each module
Timeline for completing tasks within each module
Roles and responsibilities of each team member

Design Mockups:

Visual representations of the app's user interface
Mockups for each feature and screen in the app

Codebase:

Organized and well-documented code repository
Instructions for setting up and running the app locally

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Submission Guidelines:

- Final submission should include the complete codebase, documentation, and a demo video.

- Ensure all features are fully functional and tested.

- Submit all deliverables by the project deadline.