

IITISoC Proposal Submission

Team Details:

Team Leader:

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Skills: HTML, CSS, JAVASCRIPT, PHP, Laravel , MYSQL, AJAX, Node.js, C++,MongoDb,Express.js.

Team Member 1:

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Team Member 2:

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Team Member 3:

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Skills: HTML, CSS, JAVASCRIPT,React.js, Node.js, C++

Problem Statements Interested In:-

1> Job Search and Recruitment Platform –PS8(Intermediate)

Domain: Web Development

Project Solution:

1>Users can search for job listings based on keywords, location, and industry. The languages used would be PHP, JavaScript (Node.js) and Mysql.

2>Job Posting Employers can post job listings with details (title, description, requirements). The database will managed using mysql.

3>Resume Upload (PHP): Job seekers can upload their resumes and create profiles. We will use PHP and Laravel.

4>Job Alerts: Email notifications for relevant job openings. Technologies: PHP, HTML, CSS.

5>User Profiles: Personalized profiles showcasing skills and experience.

- 6>JWT (for Node.js): Secure user sessions or Passport.js for PHP authenticate the users.

Project Timeline:

- **Week 1:**
 - Set up project structure and environment.
 - Design user interfaces (job search, profile creation, job posting).
- **Week 2:**
 - Implement job search functionality.
 - Develop user profiles and resume upload features.
 - Create job posting forms.
- **Week 3:**
 - Build application tracking and employer dashboards.
 - Test end-to-end functionality.
 - Deploy to a development server for testing.

2> Academics Organizer Portal –PS6(Beginner)

Domain: Web Development

Project Solution:

1>Create User Authentication: Implement secure login and registration functionality for students and faculty members using a server side language like node.js or PHP.

2>Design Responsive UI: Develop a user-friendly interface that adapts to different screen sizes using Media Queries.

3>Integrate Calendar: Connect the portal with a calendar system to display academic events.

4>Implement Role-Based Access Control: Ensure that students and faculty members have appropriate permissions using Passport.js or Auth0:

5>Database Setup: Set up a database using Mysql, etc to store user profiles, course information, and announcements.

6>Announcements: Both students and faculty members can view important announcements related to courses or campus events on their respective dashboards

7>Course Management: Students can view their enrolled courses, access syllabi, and submit assignments. Faculty members can manage course materials, upload lecture slides, and create assignments.

Project Timeline:

- **Week 1:**
 - Set up project structure and environment.
 - Implement user authentication (login and registration).
 - Create basic UI components using html, CSS and Javascript (dashboard layout, navigation).
- **Week 2:**
 - Develop course management features (view courses, syllabi, assignments).
 - Integrate the calendar system.
 - Implement announcements functionality.
- **Week 3:**
 - Finalize UI design (responsive layout, styling using javascript-React.js).
 - Test role-based access control.
 - Deploy the portal to a development server for testing.

3> Music Streaming App –PS19(Advanced)

Domain: Web Development

Project Solution:

1. **Discover Favourite Tracks Easily:**

Allow users to explore music by categories (genres, artists, moods).

Technologies: PHP, Node.js, HTML, CSS, JavaScript.

2. **Personalized Playlists:**

Create custom playlists based on user preferences (liked songs, favourite artists).

Technologies: PHP, Node.js, MySQL.

3. **Online and Offline Access:**

- Enable users to stream music online and download songs for offline listening.
- Implement caching mechanisms for offline playback.

Technologies: PHP, Node.js, SQLite (for local storage).

4. **Social Media Integration:**

- Allow users to share their favourite tracks, playlists, and discoveries.
- Integrate with social platforms for seamless sharing.

Technologies: PHP, Node.js, OAuth (for social login).

5. **User Profiles and Preferences:**

- Allow users to create profiles, set preferences, and manage playlists.
- Collect data on listening habits for better recommendations.

Technologies: PHP, Node.js, MySQL.

6. **Curated Recommendations:**

- Use machine learning algorithms to suggest similar songs or artists.
- Consider collaborative filtering and content-based recommendations.

Technologies: Node.js, ML libraries (TensorFlow, PyTorch, etc).

7. **Intuitive User Interface (UI):**

- Design a clean and user-friendly interface for easy navigation.
- Include features like album covers, lyrics, and artist information.

Technologies: HTML, CSS, JavaScript (React.js).

Project Timeline:

1. **Week 1:** Project Setup and Planning

Define project scope, features, and technology stack.

2. **Week 2:** User Authentication and UI Basics

Implement user registration and login (PHP and Node.js).

Create basic UI components (HTML/CSS/React.js).

3. **Week 3:** Music Database and Recommendations

Set up MySQL database schema for songs, artists, and playlists.

Implement basic recommendation algorithms (Node.js).

4. **Week 4 :**Audio Streaming and Deployment

Set up audio streaming using HTML5 and implement ML libraries.

Deploy the app to a development server (Heroku, Netlify, or AWS).