

# LEARNOVA



## JAVA FULL STACK TECHNOLOGY LAB

(20PECE 501LB ) MINI PROJECT

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# PROBLEM STATEMENT

The current e-learning website faces challenges related to outdated frontend technology, resulting in a subpar user experience. Issues include poor responsiveness across devices, an inefficient navigation structure, slow page loading times, limited interactivity, inadequate performance analytics, and inconsistent browser compatibility.



# AIM/SOLUTION

The E-learning website, built using Java full stack technology, offers a comprehensive platform for online education. With a user-friendly interface, it provides a wide range of courses, interactive lessons from different tutors. Students can access the material anytime, anywhere, making learning convenient and efficient.

Addressing these concerns is essential to provide a modern, engaging, and accessible learning platform for diverse users.

# TECHNOLOGY USED

## JAVA FULL STACK TECHNOLOGY:

1. HTML
2. CSS
3. JavaScript
4. JSP
5. Servlets
6. Mysql

# FEATURES

## **1. Responsive Frontend (HTML, CSS, JavaScript):**

Utilized HTML, CSS, and JavaScript for a visually appealing and responsive user interface.

Ensures a seamless user experience across various devices.

## **2. Interactive Content (JavaScript):**

Leverage JavaScript to enhance interactivity with features like quizzes, animations, and real-time updates.

Engages users and promotes active learning.

### **3. Dynamic Page Generation (JSP):**

Use JSP to embed Java code in HTML pages, facilitating dynamic content generation. Enables the creation of personalized and dynamic learning experiences.

### **4. Server-Side Logic (Servlets):**

Implement Servlets to handle server-side logic, manage user requests, and generate responses.

Facilitates efficient communication between the frontend and backend.

### **5. User Authentication and Profiles (Servlets, MySQL):**

Implement Servlets for user authentication and MySQL for storing user profiles securely.

Enables personalized learning experiences and secure access to user-specific content.

## **6. Course Management (Servlets, MySQL):**

Use Servlets and MySQL to manage course creation, organization, and content delivery.

Streamlines course development and organization for instructors.

## **7. Real-Time Collaboration (JavaScript, Servlets):**

Employ JavaScript for real-time updates and Servlets for managing collaborative features.

Fosters interaction and collaboration among learners.

## **8. Analytics Dashboard (Servlets, MySQL):**

Utilize Servlets to generate saved playlists, likes and comments and MySQL for data storage.

Offers insights into user behavior and course effectiveness.



## **10. Accessibility Features (HTML, CSS):**

Implement HTML and CSS features for accessibility, such as adjustable font sizes and contrast settings.

Ensures inclusivity for users with different needs.

## **11. Security Measures (Servlets, MySQL):**

Employ secure coding practices in Servlets and MySQL to protect user data.

Safeguards user privacy and maintains data integrity.

## **12. Search and Navigation (HTML, CSS, JavaScript):**

Enhance user experience with a robust search function and easy navigation using HTML, CSS, and JavaScript.

Facilitates quick content discovery.



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## Quick Options

### Likes And Comments

total likes : 25

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total comments : 12


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
saved playlists : 4

[View Playlists](#)

### Top Categories

 computer networks


 operating systems

 database systems


 machine learning

 web development

### Popular Topics

 HTML

 CSS

 javascript

 react

 PHP

 bootstrap


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4  
saved playlist



33  
videos liked



12  
videos comments

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# CONCLUSION

The conclusion of developing an E-learning website using Java full stack technology is that it offers a robust and efficient platform for online education. With features like user authentication, course management, interactive learning modules, and real-time assessments, the website provides a seamless learning experience for students.