

## PROJECT ABSTRACT

**Year:** III B.Tech-CSE

**Date:** 13-10-2025

**Section:** A

**Project Batch No:** 15

**Title of the Project:** *LearnHub*

**Technologies & Components Used:**

Frontend Framework:	<b>Flutter</b> (for user dashboard and mobile accessibility) <b>ReactJS</b> (for admin panel and web interface)
Backend Framework:	<b>Node.js with Express.js</b> (for RESTful API and server-side logic)
Database:	<b>MySQL</b>
Programming Language:	<b>JavaScript</b> (Node.js, ReactJS), <b>Dart</b> (Flutter)
Authentication:	<b>JWT (JSON Web Token)</b> for secure, role-based login and access control
Hosting Platform:	Local Hosting
Key Features:	<ul style="list-style-type: none"> <li>• <b>Role-based Login:</b> Redirects users to Admin or User dashboards based on credentials.</li> <li>• <b>Training Creation:</b> Admins can upload and manage video or PDF training materials.</li> <li>• <b>Quiz Management:</b> Admins create and link quizzes to specific trainings.</li> <li>• <b>Training Assignment:</b> Assign trainings and quizzes to selected users.</li> <li>• <b>User Dashboard:</b> Displays only the user's active and assigned trainings.</li> <li>• <b>Quiz Attempts &amp; Scoring:</b> Users must score 75% or above within three attempts to pass.</li> <li>• <b>Certification:</b> Auto-generates certificates for users achieving 75% or higher scores.</li> </ul>

### Abstract:

The **SkillPath Training Management System** is a full-stack web application designed to streamline employee and student training, assessment, and certification. It allows administrators to create and assign trainings, upload learning materials, and manage quizzes, while users can access personalized dashboards to complete assigned trainings and earn certificates.

The system integrates **Flutter** for the user interface and **ReactJS** for the admin panel, with a **Node.js and ExpressJS** backend connected to a **MySQL** database for efficient data management. Secure, role-based access is provided through **JWT authentication**. Overall, SkillPath delivers a scalable, interactive, and secure platform that simplifies digital training, evaluation, and certification processes.

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