# Functional Requirements Document: Online Learning Platform

Project Name: Scholar247

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## 1. Project Overview

Scholar247 is a web-based online learning platform that provides tutorials, coding examples, quizzes, and certification opportunities in web development, programming, and computer science. The site will serve as a knowledge hub for beginners and intermediate learners.

## 2. User Roles

- Visitor (unauthenticated user)

- Registered Learner

- Admin

## 3. Functional Requirements

### 3.1 Visitor Features

- View homepage, categories, and sample tutorials.

- Search for tutorials by keyword.

- Register or log in to access full content.

### 3.2 Registered Learner Features

- Access all tutorials and articles.

- Bookmark/favorite tutorials.

- Take quizzes and track progress.

- Comment on tutorials.

- Earn badges/certificates.

### 3.3 Admin Features

- Add/edit/delete tutorials and quizzes.

- Approve or delete user comments.

- Manage user accounts.

## 4. Content Structure

- Tutorials categorized by topic (HTML, CSS, JS, Python, etc.)

- Each tutorial includes:

- Title  
 - Description  
 - Code examples  
 - "Try it Yourself" editor

- Quizzes with multiple choice questions

## 5. Technical Requirements (Summary)

- Frontend: HTML, CSS, JavaScript, Next.js

- Database: MySQL

- Hosting: GitHub Pages (for frontend)