

Name:Poushik Yelne
Section : A3
Roll No.51

Practical No.7

Component Diagram
Online Learning platform

Theory:

Component Diagram for Project Deployment:

1. User Interface (UI) Component:

- Represents the user interface elements of the system.
- Includes tabs for tracking course progress, accessing materials, and attendance.

2. Database Component:

- Represents the database management system (DBMS) used to store system data.
- Includes tables for user information, course details, grades, payments,

3. Web Server Component:

- Represents the web server responsible for handling client requests.
- Includes modules for routing requests, handling HTTPS communication, and serving static files.

4. Authentication Component:

- **Manages user authentication and login functionality.**
- **Includes modules for user registration, login, and password recovery.**
- **Implemented as part of the web server component.**

5. Course Management Component:

- **Manages course enrollment, creation, modification, and deletion.**
- **Includes modules for student and instructor interactions.**
- **Implemented as part of the web server component.**

6. Communication Component:

- **Provides chat functionality for course-related discussions and announcements.**
- **Includes modules for real-time messaging and notification delivery.**
- **Implemented as part of the web server component.**

7. Assessment Component:

- **Handles the creation, grading, and feedback for quizzes and exams.**
- **Provides progress tracking for both students and instructors.**
- **Implemented as part of the web server component.**

8. Recommendation Component:

- **Analyzes course popularity, categorizes courses, and collects feedback.**

- Provides course recommendations based on user preferences.
- Implemented as part of the web server component.

9. Payment Component:

- Facilitates secure money transfer for course payments.
- Supports various payment options including subscriptions and one-time payments.
- Integrated with external payment gateways.
- Implemented as part of the web server component.

10. Multilingual Support Component:

- Provides language support for content accessibility.
- Includes modules for translating course materials and user interfaces.
- Implemented as part of the web server component.

11. Learning Path Component:

- Allows students to create and track their learning paths.
- Provides personalized recommendations for course progression.
- Implemented as part of the web server component.

12. Certification Component:

- Issues certificates upon course completion.

- Manages certification criteria and verification.
- Implemented as part of the web server component.

13. Financial Aid Component:

- Manages financial aid applications, approvals, and repayments.
- Provides options for students to apply for aid and repay upon course completion.
- Implemented as part of the web server component.

Output:

