Online Education Platform SRS

Functional requirements:-

- Choose the appropriate course.
- Choosing a lecturer/teacher.
- Launch and make the course available.
- Follow progress and interactions.

With some detail :-

I. Choose the appropriate course :

    a. Proposing many diverse fields of education, such as (commerce, business administration, design, music, marketing, science, programming, development, software, photography, etc).

    b. Display all available courses within the selected field, such as (within the development field, the following courses are available: HTML, CSS, JavaScript, PHP, React).

II. Choosing a lecturer/teacher :

a. Each course provides more than one teacher, each with a different method of explanation, teaching, and follow-up.

b. The most rated and recommended teachers are suggested.

c. Choose the appropriate teacher based on the required language of explanation.

III. Launch and make the course available :

a. Attach the materials used for each video in the course.

b. The student is allowed to access periodic exercises and quizzes for the course.

c. The student is allowed to save and download the desired video from the course or the entire playlist.

d. The student is allowed to attach the required assignments.

e. It allows the student to ask questions and communicate with the teacher.

IV. Follow progress and interactions :

a. Count the number of saved videos.

b. Counting the number of student interactions on the platform, whether comments, likes, videos, etc.

c. Monitoring the student's achievement through the number of videos watched.

d. Monitoring student grades in quizzes.

e. Monitoring the number of assigned assignments out of the total number.

f. Issuing a warning if the number of required achievements is less than 70%.

Non-Functional requirements:-

- Video quality:

High quality is provided for each video, up to 720p to 1080p HD automatically, and the student can control the quality by either lowering or increasing it.

- **Privacy and security:**

  No student on the platform has the right to follow another student and what he does or knows his data that is requested when registering on the platform, and everything is done with a high degree of security.

- **Response speed and performance:**

  When you click on any action button, the response takes between one or two seconds, and when attaching, the seconds vary depending on the size of the attached file, but it does not reach a minute, and when uploading comments or sending, it does not take a fraction of a second, provided that a good Internet network is available.

- **Scalability:**

  The platform adapts to changes or any new function or added feature without affecting the performance of the platform or making the text out of service for a period previously announced to students, and it is impossible to make that period as short as possible.

- Availability:

  The platform operates 24 hours a day, except for the period during which the repair is carried out, which, in the worst case, takes up to two hours.

- Usability:

  The platform is very easy to use, focused more on students, and is explained in each interface with shapes, indicative phrases, etc.

- Role-based access control:

  Different users should have different levels of access based on their roles such as Student, Tutor and Admin.

Features and other Functions:-

1. The student can change and modify his profile information.

2. The student is allowed to add comments below the video and evaluate whether the course or the teacher.

3. An interface for communicating with us and sending complaints, reports, and inquiries to the admin.

4. The possibility of choosing the feature of becoming a teacher (under development).

5. The ability to download videos to your device, ensuring that they are available without the Internet and in good quality.

<u>Final Goal:</u>

Creating an integrated educational platform that enables the student to learn remotely, transforming the traditional system and its burden of time, effort, and exorbitant cost into a healthy educational environment for the student with a high level of efficiency and service.