Software Requirement Specification

Online Educational Platform

1- Functions:

1- As a student I want to:

- Sign up
- Login
- Manage profile
- Search for courses
- Choose a suited teacher
- Send complaints and suggestions
- Interact with videos

2- As an admin (teacher) I want to:

- Sign up
- Login
- Manage profile
- Add playlist
- Add contents
- Manage tutorial (Update/Delete/Edit)
- View interactions

3 Functional Requirements

For the student:

1- Registration

1.1-The system must provide the student with the ability to create an account

1.2 The system must ensure that the student enters the name, email, password, password confirmation, and photo to create an account

2- Profile management

2.1 The system must provide the student with the ability to make changes to the account, such as modifying his data (name, password, email, and photo).

3. Search for courses

3.1 The system must provide the student with the ability to search for the course he wants by writing the name of the course or displaying the available one on the page.

4- Search for a teacher

4.1 The system must provide the ability for the student to search for a suitable teacher for him, displaying the teacher's data and the courses he has created.

5 - Complaints and suggestions

5.1 The system must provide a page to receive student suggestions and messages via a dedicated communication page

6-Interactions

6.1 The system must provide a way for the student to interact with the course he joined (saving the playlist, adding a comment, or giving a like).

6.2 The system must allow the student the freedom to delete or modify the comments he wrote

For the teacher:

1- Registration

1.1-The system must provide the teacher with the ability to create an account

1.2 The system must ensure that the teacher enters the name, email, password, password confirmation, photo, and educational specialty to create an account

2- Profile management

2.1 The system must provide the teacher with the ability to make changes to the account, such as modifying its data (name, password, email, photo, and specialty).

3. Add playlist

3.1 The system must provide the teacher with the ability to add a new playlist by filling in information such as (condition, description, thumbnail, and playlist name).

3.2 The system must provide the teacher with the ability to modify, delete, or update the playlist

4- Add content

4.1 The system must provide the teacher with the ability to add content, material, or video within the playlist by filling in some information such as (the status, the name of the video, the playlist it will fall under, and the description).

4.2 The system must provide the teacher with the ability to delete, modify, or update the content

5- Interactions

5.1 The system must provide the possibility for the teacher to follow up on the interactions he receives, such as comments and likes.

5.2 The system must provide the teacher with the ability to delete any inappropriate comment that has been written

4 Non-Functional Requirements

4.1 Other Systems

- **Database server:** To store information about students, teachers, added courses, and their contents.

4.2 Security

- **Authentication:** Each student and teacher in the website has a unique email taken and a password.

4.3 Performance

- **Availability:** Students and teachers must be able to access the website 365 days a year, 24 hours a day.

- **Response time:** The total response time should not exceed 3 seconds (including server processing time, network latency, and client-side rendering time).
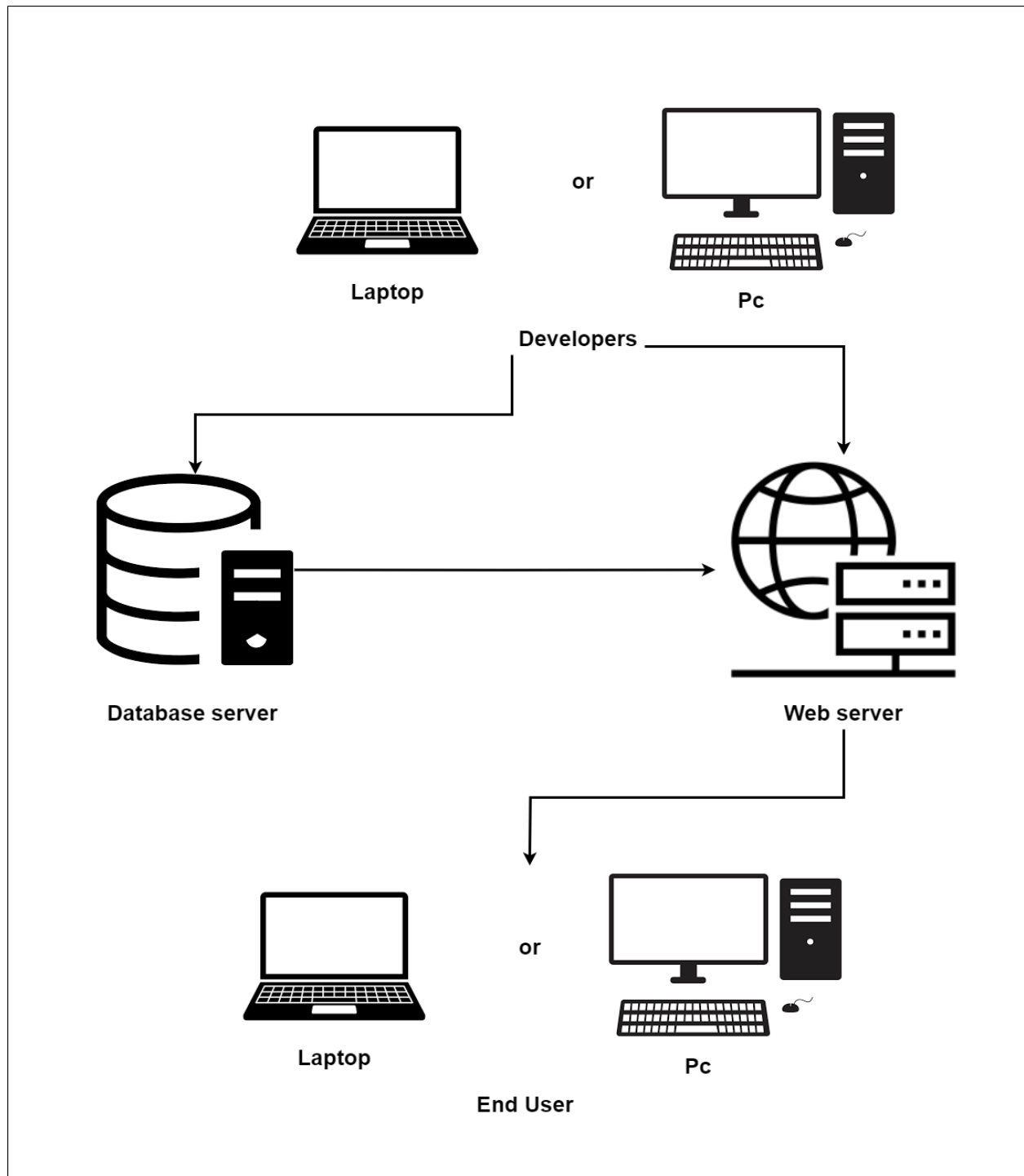
4.4 Maintainability

- **Modularity**: By organizing the website into modular components or modules, each responsible for a specific functionality or feature.

- **Search Engine Optimization (SEO)**: Implement SEO to improve the website's visibility and ranking in search engine results pages by optimizing meta tags, headers, URLs, and content for relevant keywords.

- **Performance Optimization**: Optimize the website's performance by implementing magnification of CSS and JavaScript files, and leveraging content delivery networks (CDNs) to reduce latency and improve page load times.

4.5 User Experience (Usability)
 Crafting the platform to provide a seamless and intuitive learning journey, featuring straightforward guidance and user-friendly interfaces.

5 Architecture:

Laptop

or

Pc

Developers

Database server

Web server

Laptop

or

Pc

End User

Developer Workstations:

Developing the website involves creating user interfaces and establishing connections with the database.

Hosting the Website:

The website is hosted on a web server, enabling users to access it and utilize its functionalities.

Database Hosting:

The website's data, including user and advertisement information, is stored on a database server.

User Access:

End users can access the website's features using personal computers and smartphones.