What is an architectural pattern?

Software architecture refers to the basic structure of any software system and incorporates any aspect that makes a system function and behaves as it should

What architectural pattern we used?

We used the layered architecture pattern for this project. Layered architectures are said to be the most common and widely used architectural framework in software development. It is also known as an n-tier architecture and describes an architectural pattern composed of several separate horizontal layers that function together as a single unit of software. A layer is a logical separation of components or code. This pattern stands out because each layer plays a distinct role within the application and is marked as closed. It means a request must pass through the layer below it to go to the next layer. Another one of its concepts – layers of isolation – enables you to modify components within one layer without affecting the other layers. Some benefits of this pattern are:

- Applications that are needed to be built quickly.
- Appropriate for teams with inexperienced developers and limited knowledge of architecture patterns.
- Applications that require strict standards of maintainability and testability.

Why we chose that?

This pattern is easy to use and reliable for a small web application like this. Each layer can be implemented by a team of developers so the managing becomes easier and also, we don't have many servers for this application so the server client architecture wouldn't be so understandable also the microservice pattern would require many sources. This pattern is straight-forward and we know what layer should be passed in order to answer a request.