**­Westminster international university in Tashkent.**

**Software design patterns**

In my web application, I have applied the code-first approach to design my database in C# .NET. This approach allows me to define my database schema using C# classes and then automatically generate the corresponding database tables. This approach is particularly useful in situations where the database schema is likely to change frequently, as it allows for easy modification and updating of the database schema without having to manually update the corresponding database tables.

Another design pattern that I have applied in my web application is the Singleton pattern. This pattern ensures that there is only one instance of a particular class throughout the application. his helps to ensure that the application runs smoothly and efficiently, as there is no need to constantly recreate and tear down the database connection.   
  
In terms of UML diagrams, I have created class diagrams to represent the different components of my web application. The class diagram for the Singleton pattern includes a single database connection object that is shared throughout the application.

In conclusion, the design patterns that I have applied in my web application have helped to ensure that the application is built