STEPS TO DEPLOY IN AZURE

Step 1: Create an Azure App Service

1. Log in to Azure Portal

2. Click **Create a resource** > **Web App**

Fill in the required fields:

- Name: onlinelibrarySystem
- Publish: Code
- Runtime stack: .NET 8 (or your project version)
- Region: Choose the nearest region

3. Click Next > Monitoring (skip) > Review + Create

4. Click Create

Step 2: Create Azure SQL Database

1. Go to **Azure Portal** > Create a resource **> SQL Database**

2. Set:
   - **Database name:** OnlineLibrarySystemDB
   - **Server:** Create new (set admin username/password)

3. Select **Basic pricing tier** (from options available)

4. Click **Review + Create** > **Create**

   ➔After creation, go to the SQL server settings > Firewalls and allow your IP and "Allow Azure services to connect**".**

Step 3: Get Connection String

1. In the Azure SQL resource > Go to Connection Strings

2. Copy the ASP.NET connection string

3.

Step 4: Update appsettings.json

➔Replace your local connection string with the Azure one in appsettings.json

Step 5: Publish from Visual Studio

1. Right-click your project > **Publish**

2. Choose **Azure App Service (Windows)** > Select existing resource

3. Click **Publish**

Done! Test the App

- Open your Azure App URL, e.g., https://onlinelibrarySystem.azurewebsites.net

- Register a new user, and test book features

- Confirm the data is stored in Azure SQL