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Exercise - Write code to implement a web application

5 minutes

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Sign in to activate sandbox

In this unit, you'll use developer tools to create the code for a starter web application.

Create a new web project

The heart of the .NET CLI tools is the `dotnet` command-line tool. Using this command, you'll create a new ASP.NET Core web project.

First, let's install the appropriate version of `dotnet` into the Cloud Shell. For this exercise, we'll be using SDK version 3.1.102.

1. Run the following commands in Azure Cloud Shell on the right to download and install dotnet:

   Bash

   ```bash
   wget -q -O -
   https://dotnet.microsoft.com/download/dotnet/scripts/v1/dotnet-instal-
   l.sh | bash -s -- --version 6.0.404
   export PATH="~/.dotnet:$PATH"
   echo "export PATH=~/.dotnet:\$PATH" >> ~/.bashrc
   ```

2. Next, run the following command to create a new ASP.NET Core MVC application named "BestBikeApp":

Bash

```
dotnet new mvc --name BestBikeApp
```

The command will create a new folder named "BestBikeApp" to hold your project.

Optionally test your web app

Open a second command shell session by browsing to https://shell.azure.com/ in a new tab. You can test your application locally on Azure. To do so, use the following steps:

1. From your primary command shell session, run the following commands to build and run your web application:

Bash

```
cd BestBikeApp
dotnet run
```

You should get output like the following:

Console

```
info: Microsoft.Hosting.Lifetime[0]
      Now listening on: https://localhost:5001
info: Microsoft.Hosting.Lifetime[0]
      Now listening on: http://localhost:5000
info: Microsoft.Hosting.Lifetime[0]
      Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
      Hosting environment: Development
info: Microsoft.Hosting.Lifetime[0]
      Content root path: /home/user/BestBikeApp
```

The output describes the situation after starting your app: the application is running and listening at port 5000.

2. From your second command shell session, run the following command to browse to your web application:

Bash

```
curl -kL http://127.0.0.1:5000/
```

You should see some HTML appear, ending in the following lines:

```
      <div class="text-center">
      <h1 class="display-4">Welcome</h1>
      <p>Learn about <a
href="https://learn.microsoft.com/aspnet/core">building Web apps with
ASP.NET Core</a>.</p>
 </div>

          </main>
      </div>

      <footer class="border-top footer text-muted">
          <div class="container">
              &copy; 2021 - BestBikeApp - <a href="/Home/Privacy">Pri-
vacy</a>
          </div>
      </footer>
      <script src="/lib/jquery/dist/jquery.min.js"></script>
      <script src="/lib/bootstrap/dist/js/bootstrap.bundle.min.js">
</script>
      <script src="/js/site.js?v=4q1jwFhaPaZgr8WAUSrux6hAuh0XDg9kPS3x-
IVq36I0"></script>

 </body>
 </html>
```

3. From your primary command shell session, press `Ctrl+C` to quit your web app.

Next unit: Deploy code to App Service

Continue >

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