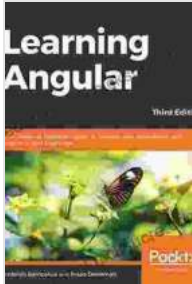


An Exhaustive Guide to Building Web Applications with Angular 10 and ASP.NET Core for Beginners



Learning Angular: A no-nonsense beginner's guide to building web applications with Angular 10 and

TypeScript, 3rd Edition by Aristeidis Bampakos

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In today's digital world, web applications have become an indispensable part of our lives. From browsing the web to managing our finances, we rely on web applications for a wide range of tasks. If you're interested in building your own web applications, this guide will provide you with a step-by-step approach to getting started with Angular 10 and ASP.NET Core, two of the most popular frameworks for web development. Whether you're a complete beginner or have some experience with other programming languages, this guide will equip you with the skills and knowledge you need to build robust and scalable web applications.

Prerequisites

Before we dive into the details of Angular 10 and ASP.NET Core, let's make sure you have the following prerequisites in place:

- A basic understanding of HTML, CSS, and JavaScript
- Node.js and npm installed on your system
- .NET Core SDK installed on your system
- A text editor or IDE of your choice

Setting Up Your Development Environment

Once you have the prerequisites in place, let's set up the development environment for Angular 10 and ASP.NET Core.

Creating an Angular 10 Application

To create an Angular 10 application, open your terminal or command prompt and run the following command:

```
ng new angular-app
```

This command will create a new Angular 10 application in the "angular-app" directory. Navigate to the newly created directory using the following command:

```
cd angular-app
```

You can now serve the Angular application by running the following command:

```
ng serve
```

This command will start a development server on localhost:4200, where you can view your running Angular application.

Creating an ASP.NET Core Application

To create an ASP.NET Core application, open a command prompt or terminal and run the following command:

```
dotnet new webapi
```

This command will create a new ASP.NET Core Web API application in the "WebAPI" directory. Navigate to the newly created directory using the following command:

```
cd WebAPI
```

You can now run the ASP.NET Core application using the following command:

```
dotnet run
```

This command will start the ASP.NET Core application on localhost:5000, where you can view the Swagger UI for the API.

Integrating Angular 10 and ASP.NET Core

Now that we have both Angular 10 and ASP.NET Core applications up and running, let's integrate them to create a complete web application.

Configuring Angular 10 to Consume ASP.NET Core API

In your Angular 10 application, open the "app.component.ts" file and import the HttpClient module:

```
import { HttpClient } from '@angular/common/http';
```

Next, inject the HttpClient into the component constructor and declare a variable to store the API URL:

```
constructor(private http: HttpClient){this.apiUrl = 'https://localhost:5
```

Finally, create a method to make HTTP requests to the ASP.NET Core API:

```
getValues(){this.http.get(this.apiUrl).subscribe(data => { this.values =
```

You can now call the "getValues()" method to fetch data from the ASP.NET Core API.

Configuring ASP.NET Core to Serve Angular 10 Application

In your ASP.NET Core application, open the "Startup.cs" file and configure the app to serve static files from the Angular 10 application:

```
app.UseStaticFiles(); app.UseSpa(spa => { spa.Options.SourcePath = "Clic
```

This configuration tells ASP.NET Core to serve static files from the "ClientApp" directory, which is where the Angular 10 application is located.

Deploying the Web Application

Once you have developed and tested your web application locally, you can deploy it to a hosting provider to make it accessible over the internet.

There are various hosting providers available, such as Azure, AWS, and Heroku. Choose a hosting provider that meets your specific requirements and follow their instructions to deploy your application.

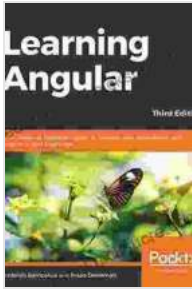
In this guide, we covered the basics of building web applications using Angular 10 and ASP.NET Core. We created Angular 10 and ASP.NET Core applications, integrated them to fetch data from the API, and deployed the application to a hosting provider.

This guide provides a solid foundation for building scalable and robust web applications. To further enhance your skills, explore additional resources on Angular 10, ASP.NET Core, and web development best practices.

Additional Resources

- [Angular 10 Official Website](#)
- [ASP.NET Core Official Website](#)
- [ASP.NET Core GitHub Repository](#)
- [Angular 10 GitHub Repository](#)

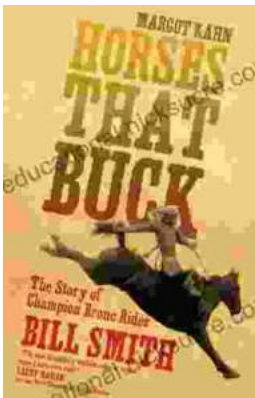
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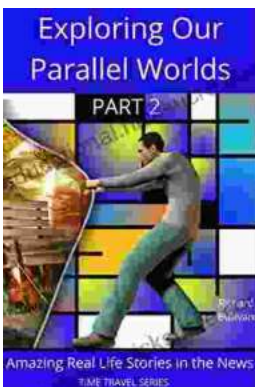
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