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@angular/universal - SSR

5. anguniversal/*

@angular/universal



- @angular/universal packages start with the name @nguiversal/*
- These are packages that use @angular/platform-server to create an easy to use SSR solution with popular backend technologies
 - Express
 - aspnet core
 - hapi

@nguniversal/express-engine



- Let's examine the @angular/universal packages by using their express solution.
- There is an easy to use ng add command for those packages
- Using the ng add command with the @nguniversal/express-engine will add an express server to our project and also modify our angular app to work on Node as well as the browser
- Let's go over the files created

> npx ng add anguniversal/express-engine

Angular SSR Architecture

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(Optional) Browser Only

AppBrowserModule

Server only logic

AppServerModule

Isomorphic

AppModule

SSR Commands



- To open a development server with SSR do not use ng serve
 - use: npm run dev:ssr
- After development is finished you can build your (do not use ng build)
 - use: npm run build:ssr
- After you build your app you can launch your app by running with node your express server
 - use: npm run serve:ssr

Summary



- Using @angular/universal you have a simple ng add command and you will get SSR with your angular app
- The add command will give you
 - a backend server (in our example express)
 - A root module for the node part that will bootstrap the app module (used for items that can only work on the server)
- Your regular angular app but it can now run on both platforms.

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Thank You

Next Lesson: 6. Prerender