

Angular Basics

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Lecture 2:

Building, Configurations

and Deployment

Lecture Overview

- TypeScript compilation
- Angular Build Process
- How to configure application environments
- Deployment to remote web server

Typescript Compilation

- The compiler can be installed with NPM:
`npm install typescript`
- It is a regular NPM package - <https://www.npmjs.com/package/typescript>
- Documentation can be found on the official website:
<https://www.typescriptlang.org>
- DEMO...

Angular Build Process

- Compile the angular app to the defined output dir with:
`ng build`
- NG BUILD uses webpack internally to generate static application sources - index.html, styles.css, main.js
- JIT (Just-In-Time) & AOT (Ahead-Of-Time) Compilation

JIT

- Just-In-Time Compilation - Compiles your app in the browser at runtime
- Default when you build the app with `ng build` or `ng serve`
- Debugging and development
- Bigger files and slower execution

AOT

- Ahead-Of-Time Compilation - Compiles your app at build time
- Designed for production
- Faster execution, smaller file size
- Better security

Build Environments

- Allow different configurations at runtime
- Environment is just a TypeScript object that can be used by your application
- Replaced at build time if configured so in your angular.json config
- Demo...

Deployment

- Just serve the built index.html from server of your choice
- Keep in mind that proxy_conf works just for ng serve, you may need to adjust your server proxy settings
- DEMO - Deploy our application on the production server where the REST API is stored - use NGINX

THE END

Danke für die Aufmerksamkeit :)

Resources

- Angular Build Configuration: <https://angular.io/guide/build>
- Angular TypeScript Configuration: <https://angular.io/guide/typescript-configuration>
- Typescript docs: <https://www.typescriptlang.org/docs/home.html>
- Tutorial Github Repo: <https://github.com/martindobrev/nb-angular-tutorial>