

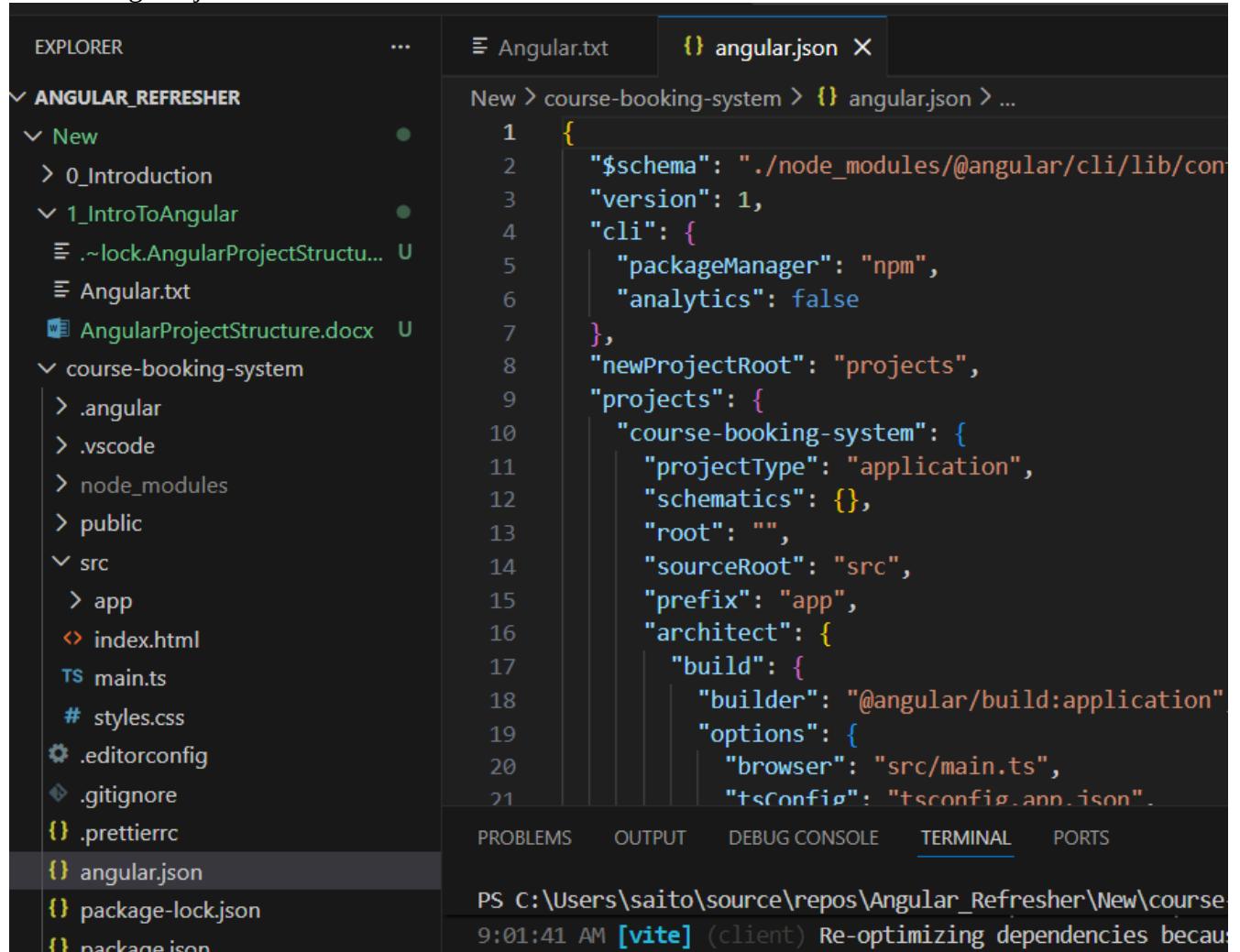
Angular Project Structure

The screenshot shows the VS Code interface with the following details:

- File Explorer (Left):** Shows the project structure:
 - ANGULAR_REFRESHER
 - New
 - 0_Introduction
 - 1_IntroToAngular
 - Angular.txt
 - AngularProjectStructure.docx
 - course-booking-system
 - .angular
 - .vscode
 - node_modules
 - public
 - src
 - app
 - index.html
 - main.ts
 - styles.css
 - .editorconfig
 - .gitignore
 - .prettierrc
 - angular.json
 - package-lock.json
 - package.json
 - README.md
 - tsconfig.app.json
 - tsconfig.json
- Editor (Top Right):** Displays the contents of `package.json`:

```
1 {  
2   "name": "course-booking-system",  
3   "version": "0.0.0",  
4   "scripts": {  
5     "ng": "ng",  
6     "start": "ng serve",  
7     "build": "ng build",  
8     "watch": "ng build --watch --configuration development",  
9     "test": "ng test"  
10    },  
11    "private": true,  
12    "packageManager": "npm@11.8.0",  
13    "dependencies": {  
14      "@angular/common": "^21.2.0",  
15      "@angular/compiler": "^21.2.0",  
16      "@angular/core": "^21.2.0",  
17      "@angular/forms": "^21.2.0",  
18      "@angular/platform-browser": "^21.2.0",  
19      "@angular/router": "^21.2.0",  
20      "rxjs": "~7.8.0",  
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1499 }<br
```

Next is angular.json file



```
1 {  
2   "$schema": "./node_modules/@angular/cli/lib/com-  
3   "version": 1,  
4   "cli": {  
5     "packageManager": "npm",  
6     "analytics": false  
7   },  
8   "newProjectRoot": "projects",  
9   "projects": {  
10     "course-booking-system": {  
11       "projectType": "application",  
12       "schematics": {},  
13       "root": "",  
14       "sourceRoot": "src",  
15       "prefix": "app",  
16       "architect": {  
17         "build": {  
18           "builder": "@angular/build:application"  
19           "options": {  
20             "browser": "src/main.ts",  
21             "tsConfig": "tsconfig.app.json"  
22           }  
23         }  
24       }  
25     }  
26   }  
27 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\saito\source\repos\Angular_Refresher\New\course-booking-system 9:01:41 AM [vite] (client) Re-optimizing dependencies because of changes to package-lock.json

angular.json => it has the CLI configuration, how our project is built, tested and includes settings for different environments and build options

tsconfig.json

```
/* To learn more about Typescript configuration file:
 * To learn more about Angular compiler options: http://angular.io/guide/workspace-config
 {
   "compileOnSave": false,
   "compilerOptions": {
     "strict": true,
     "noImplicitOverride": true,
     "noPropertyAccessFromIndexSignature": true,
     "noImplicitReturns": true,
     "noFallthroughCasesInSwitch": true,
     "skipLibCheck": true,
     "isolatedModules": true,
     "experimentalDecorators": true,
     "importHelpers": true,
     "target": "ES2022",
     "module": "preserve"
   },
   "angularCompilerOptions": {
     "enableI18nLegacyMessageIdFormat": false,
     "strictInjectionParameters": true,
     "strictInputAccessModifiers": true
   }
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

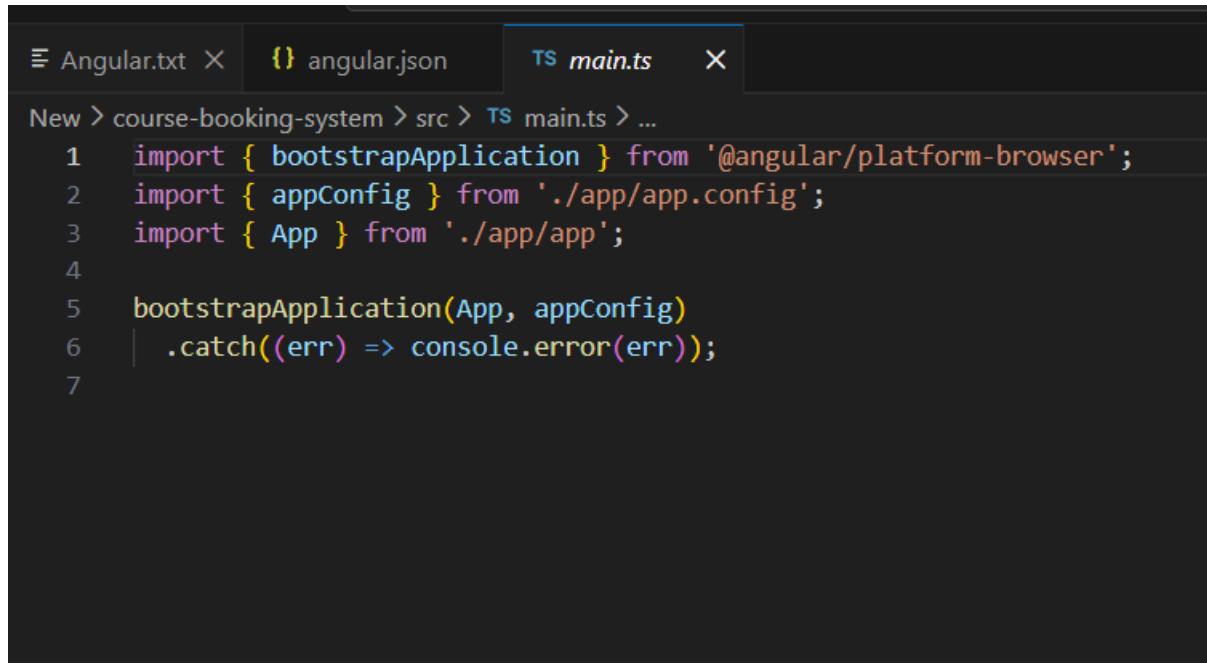
tsconfig.json => TypeScript configuration file, it sets rules for TypeScript compilation, supports code consistency. Helps with consistency and catching errors early on.

```
# See https://docs.github.com/get-started/using-git/ignoring-files
#
# Compiled output
/dist
/tmp
/out-tsc
/bazel-out
/
#
# Node
/node_modules
npm-debug.log
yarn-error.log
/
#
# IDEs and editors
.idea/
.project
.classpath
.c9/
```

.gitignore file tells Git which folders and files to ignore. It prevents unnecessary files like huge node_modules folder or sensitive files containing environment secrets from being tracked in a version control.

/src/ folder where the magic happens. The application code lives here.

main.ts

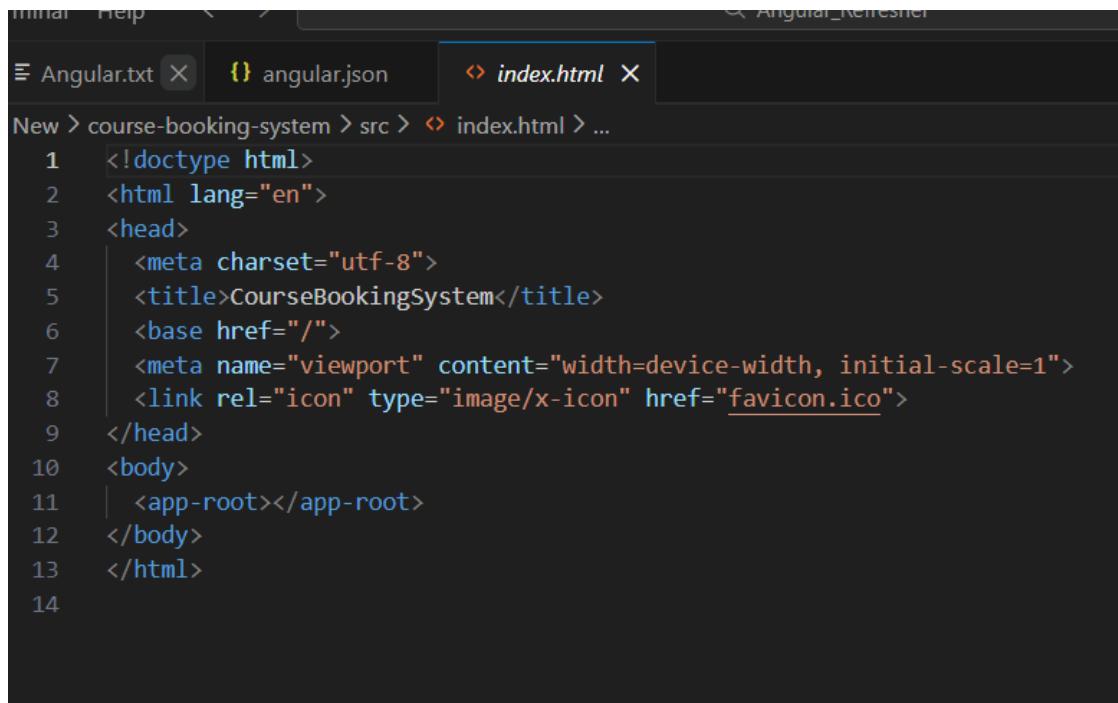


The screenshot shows a code editor with a dark theme. The tab bar at the top has three tabs: 'Angular.txt X', '{ angular.json', and 'TS main.ts X'. The 'main.ts' tab is active. Below the tabs, the file path is shown: 'New > course-booking-system > src > TS main.ts > ...'. The code in the editor is:

```
1 import { bootstrapApplication } from '@angular/platform-browser';
2 import { appConfig } from './app/app.config';
3 import { App } from './app/app';
4
5 bootstrapApplication(App, appConfig)
6   .catch((err) => console.error(err));
7
```

This is the entry point for our application. It bootstraps the Angular app, essentially kicking off the whole process.

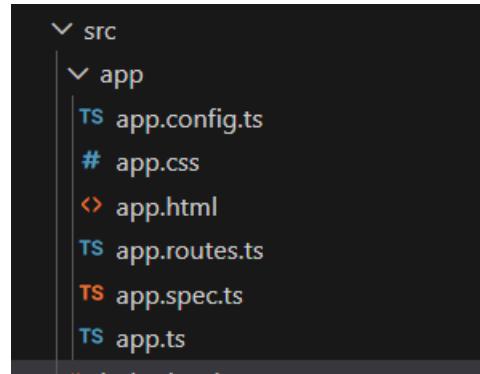
index.html



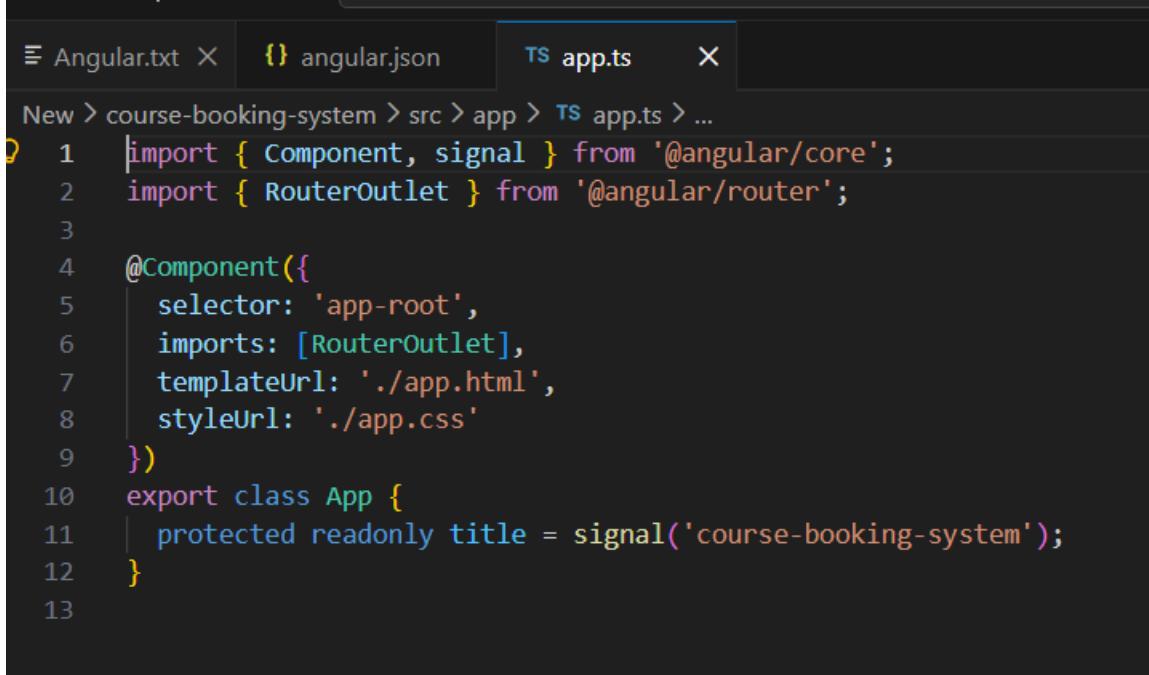
The screenshot shows a code editor window with the title "Angular_Refresher". The tabs at the top are "Angular.txt" (closed), "angular.json" (closed), and "index.html" (active). The status bar at the bottom shows the path: "New > course-booking-system > src > index.html > ...". The main editor area contains the following code:

```
1  <!doctype html>
2  <html lang="en">
3  <head>
4  |  <meta charset="utf-8">
5  |  <title>CourseBookingSystem</title>
6  |  <base href="/">
7  |  <meta name="viewport" content="width=device-width, initial-scale=1">
8  |  <link rel="icon" type="image/x-icon" href="favicon.ico">
9  </head>
10 <body>
11 |  <app-root></app-root>
12 </body>
13 </html>
14
```

index.html is the main html file that Angular injects our App into. This determines what we will see on the page. Then styles.css, this file contains global styles for our app, affecting look and feel across all components. It's where we can setup color screens, typography, and overall design aesthetics.
Asset components: they are in the 'app' folder. That's where we have the application components, services, and other core functionality resides



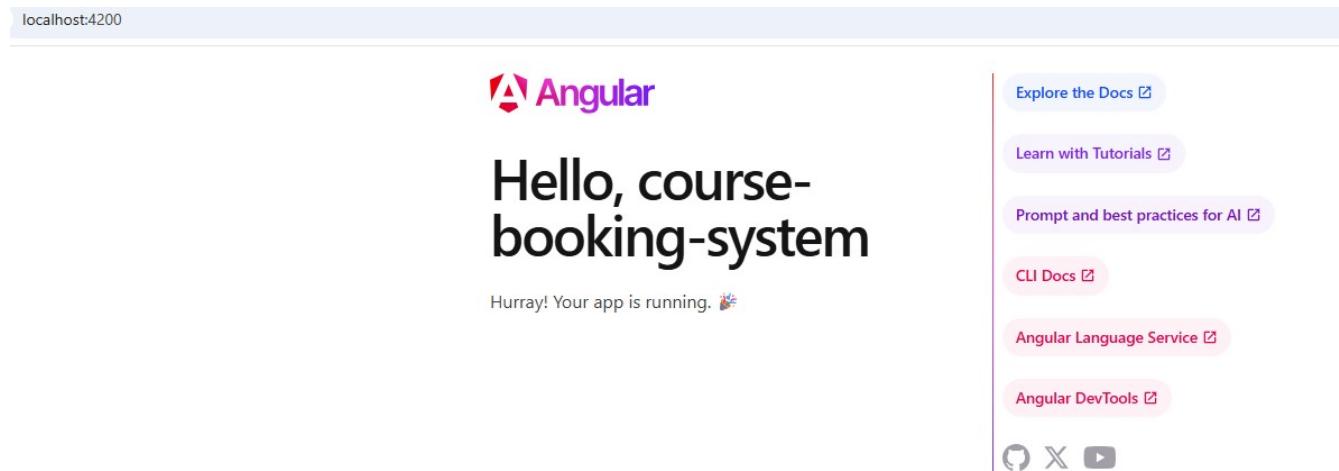
app component is in app.ts



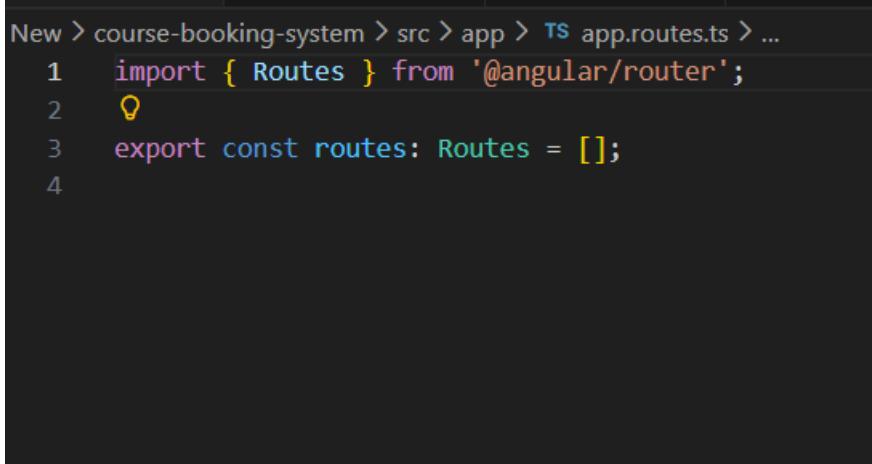
```
Angular.txt X {} angular.json TS app.ts X
New > course-booking-system > src > app > TS app.ts > ...
1 import { Component, signal } from '@angular/core';
2 import { RouterOutlet } from '@angular/router';
3
4 @Component({
5   selector: 'app-root',
6   imports: [RouterOutlet],
7   templateUrl: './app.html',
8   styleUrls: ['./app.css']
9 })
10 export class App {
11   protected readonly title = signal('course-booking-system');
12 }
13
```

it consists of a TypeScript file, HTML, a CSS file and a test file. This file defines the root component of our application. This is the first component that loads and serves as the parent for all other components.

We can see this component is injected into index.html <app-root></app-root>



app.routes.ts defines main navigation within our app. It defines how users move between different components and views



```
New > course-booking-system > src > app > TS app.routes.ts > ...
1 import { Routes } from '@angular/router';
2 ?
3 export const routes: Routes = [];
4
```

'public' folder is the folder for aesthetics assets like images or other files that don't require processing by Angular. Good for storing assets

