perplexity

i am a dotnet developer and i am good at creating apis , but now i want to learn angular but i am not understanding clearly. so please guid me step by step. and please confirm which version i want to use for initial learning. even i have apis of get but i am not getting known approach. please guied me step by step

The best way to start learning Angular as a .NET developer is to use the latest stable version (Angular 20, released in mid-2025) because it has modern features and strong community support. Here's a step-by-step beginner-friendly guide to help you build CRUD apps using your existing APIs.[1] [2]

Which Angular Version To Use

The latest official version is Angular 20, and it's recommended for new projects in 2025. Companies and tutorials now focus on Angular 17+ and Angular 20, so choosing Angular 20 will make learning easier and resources more plentiful.[3] [2] [1]

Step-by-Step Angular Learning Guide

1. Set Up Development Tools

- Install Node.js (latest long-term support version, e.g. v18+)[4]
- Install Angular CLI globally by running
```
npm install -g @angular/cli
```
- Verify installation:
```
ng version
```
- Use Visual Studio Code or your preferred IDE[4]

2. Create a New Angular Project

- Start a new project with
```
ng new my-crud-app
```
- Choose "yes" for Angular routing and select CSS/SCSS for styles
- Go to the project folder:
```
cd my-crud-app
```

- Run the app:
  `ng serve`
  Visit `http://localhost:4200` in your browser[5] [1]

3. Install HttpClientModule For API Communication

- Go to `src/app/app.module.ts`
- Import
  `import { HttpClientModule } from '@angular/common/http';`
- Add `HttpClientModule` to the `imports` array[6] [4]

4. Create Services to Connect with .NET APIs

- Create a new service:
  `ng generate service api`
- Use HttpClient inside the service for GET, POST, PUT, DELETE methods
  Example:

```
import { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';
import { Observable } from 'rxjs';

@Injectable({ providedIn: 'root' })
export class ApiService {
  private apiUrl = 'https://localhost:5001/api/yourendpoint'; // Your API URL

  constructor(private http: HttpClient) {}

  getData(): Observable<any> {
    return this.http.get<any>(this.apiUrl);
  }
}
```

5. Build Components for CRUD Functionality

- Generate new components using CLI:
  `ng generate component item-list`
  `ng generate component item-create`
  `ng generate component item-edit`
- Use the created service in these components to fetch, create, edit, and delete data[1] [4]

6. Set Up Routing

- Create routes in `app-routing.module.ts` for navigating between components (list, create, edit)[5]
- Example:

```
const routes: Routes = [
  { path: '', component: ItemListComponent },
  { path: 'create', component: ItemCreateComponent },
  { path: 'edit/:id', component: ItemEditComponent }
];
```

7. Use Angular Forms to Capture Data

- Use ReactiveFormsModule for forms inside components (add it to `app.module.ts`)
- Build forms for create and edit operations[1] [4]

Integrating With Your .NET APIs

- Make sure your .NET API endpoints (GET, POST, PUT, DELETE) are CORS-enabled[7] [6]
- Test them separately using Postman first
- In the Angular service, change `apiUrl` to your API endpoint

Helpful Resources

- Official docs: [Angular Getting Started][5]
- CRUD tutorial for Angular 20: [Angular 20 CRUD Guide][1]
- Video walkthroughs for the latest version: [Which Angular Version Should I Learn in 2025?][3]
- Full CRUD app crash courses and beginner guides[8] [9]

Summary Table: Steps Required

Step	Command / Action	Reference
Install CLI	`npm install -g @angular/cli`	[4] [1]
New Project	`ng new my-crud-app`	[5] [4]
Add HttpClient	`HttpClientModule` import	[6] [4]
Create Service	`ng generate service api`	[6] [1]
Add Component	`ng generate component ...`	[1] [4]
Routing	Set up in `app-routing.module.ts`	[5] [1]
Build Forms	Use ReactiveFormsModule	[1] [4]

If you want detailed code samples or explanations in Telugu, let me know which step you want first!

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1. https://itsolutionstuff.com/post/angular-20-crud-application-tutorialexample.html
2. https://radixweb.com/blog/what-is-new-in-angular-20

3. https://www.youtube.com/watch?v=aBnA5D3C3q0
4. https://www.djamware.com/post/5e435e84a8d0ef4300ffc5f6/angular-tutorial-easy-learning-to-build-crud-web-app
5. https://angular.io/start
6. https://www.c-sharpcorner.com/article/seamlessly-integrate-net-core-api-with-angular/
7. https://www.saffrontech.net/blog/creating-full-stack-web-app-using-angular-and-net-core
8. https://www.youtube.com/watch?v=8cdtNWtjADM
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10. https://www.reddit.com/r/angular/comments/1hg1t9d/learning_angular_in_20242025/
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12. https://5ly.co/blog/step-by-step-guide-on-how-to-learn-angular/
13. https://www.geeksforgeeks.org/blogs/angular-roadmap/
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17. https://itsolutionstuff.com/post/angular-19-crud-application-tutorial-exampleexample.html
18. https://docs.aspnetzero.com/aspnet-core-mvc/latest/Developing-Step-By-Step-Angular-Introduction
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