Dependency Injection

1. What is Dependency Injection

Dependency Injection

- A design pattern used to supply object A other objects: B,C,D, … that object A depends on

- For example we want to create a component that displays a todo list - **TodoListComponent**

- We want to grab the todo list from a server

- We have a service that helps us fetch the todo list from the server - **TodoService**

- To function properly the **TodoListComponent** depends on **TodoService**

- **TodoService** is a dependency of **TodoListComponent**

Angular DI

- **AppComponent** dependes on **TodoList** that depends on **HttpClient**

- In Angular we usually ask for a dependency in the **constructor**

```
export class AppComponent implements OnInit {
  constructor(private _todoService: TodoService) {}
  // ...
}
```

```
@Injectable({
  providedIn: "root"
})
export class TodoService {
  constructor(private _http: HttpClient) {}
}
```

The benefits of using DI

- Reduce coupling

- Easy testing

- Manage Caching

- Cleaner code

- Easy service upgrade and replacement

Thank You

Next Lesson: 2. Injector

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