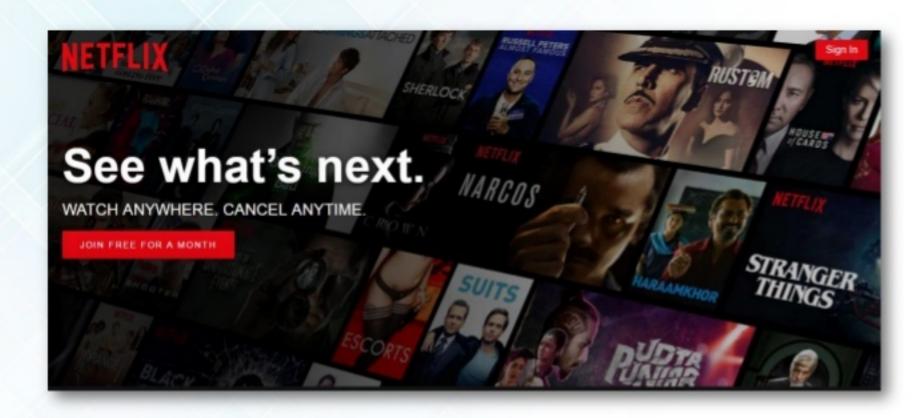


Agenda

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- Companies Using Angular
- Angular 2 Job Trends
- A Demo Web Application
- Building Blocks of Angular App
- Components
- Directives
- Services
- Router





Netflix decided to use Angular in its tool for analyzing and monitoring security of Amazon Web Services.



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theguardian

User interface of website is made as an AngularJS app written according to ES 2015.

As of Sept' 15, the website holds the third place by number of visitors among all online newspapers and magazines available online in UK

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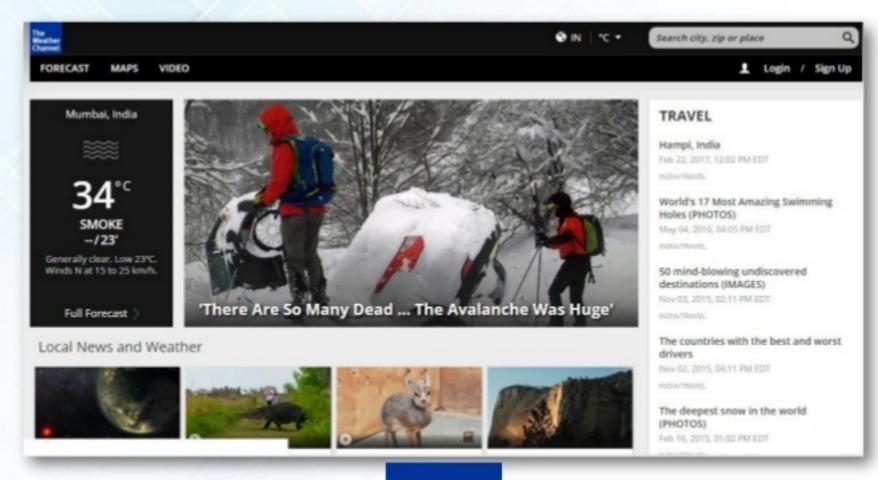


Youtube's estimated worth is \$70 billion. Service has one billion users i.e. one third of people using Internet worldwide.

PlayStation.

YouTube is available consoles produced by Sony and PS3 app was written using Angular JS framework

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Weather.com gives you one of the most precise weather forecasting reports and is uses Angular JS

The Weather Channel

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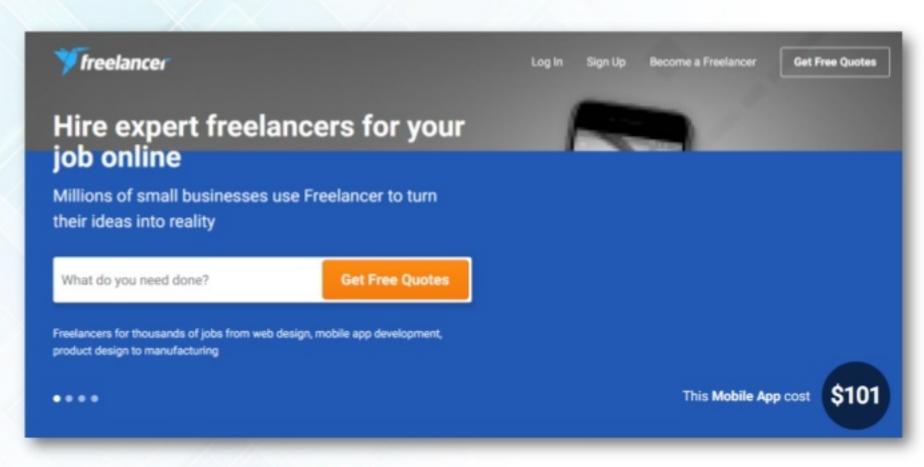


PayPal company owns online payments system available in 203 countries



PayPal is another example of large websites using AngularJS.

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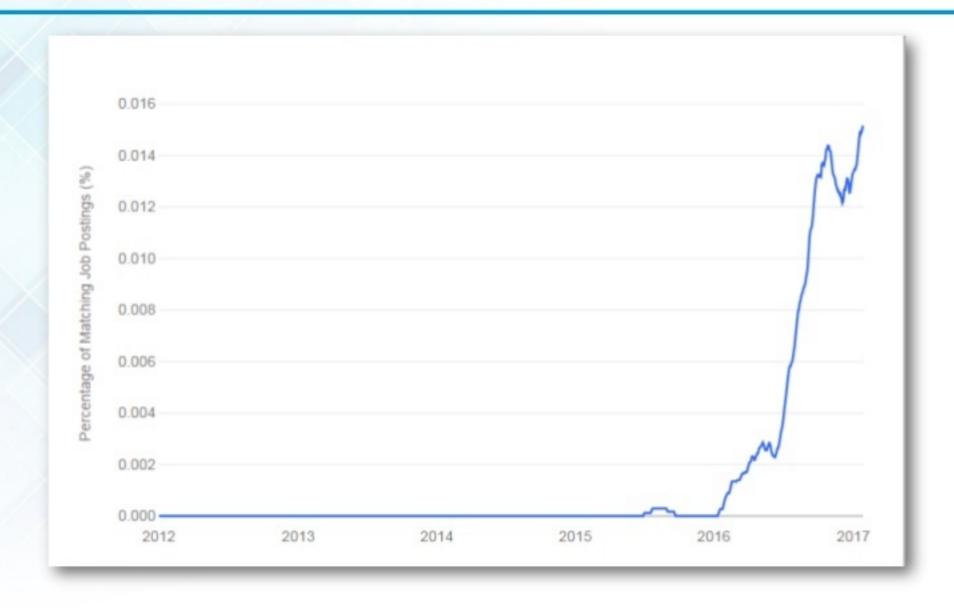
Freelancer is world famous
marketplace for outsourcing with
around 15.7 million registered
freelancers

of large websites that uses

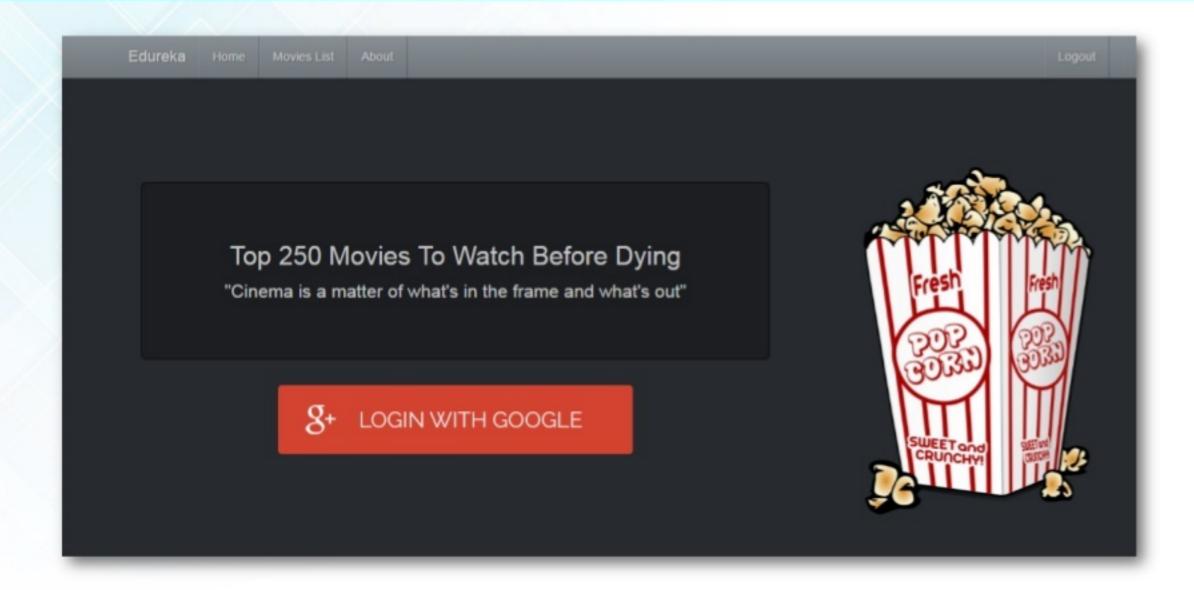
AngularJS.



Angular 2 Job Trends



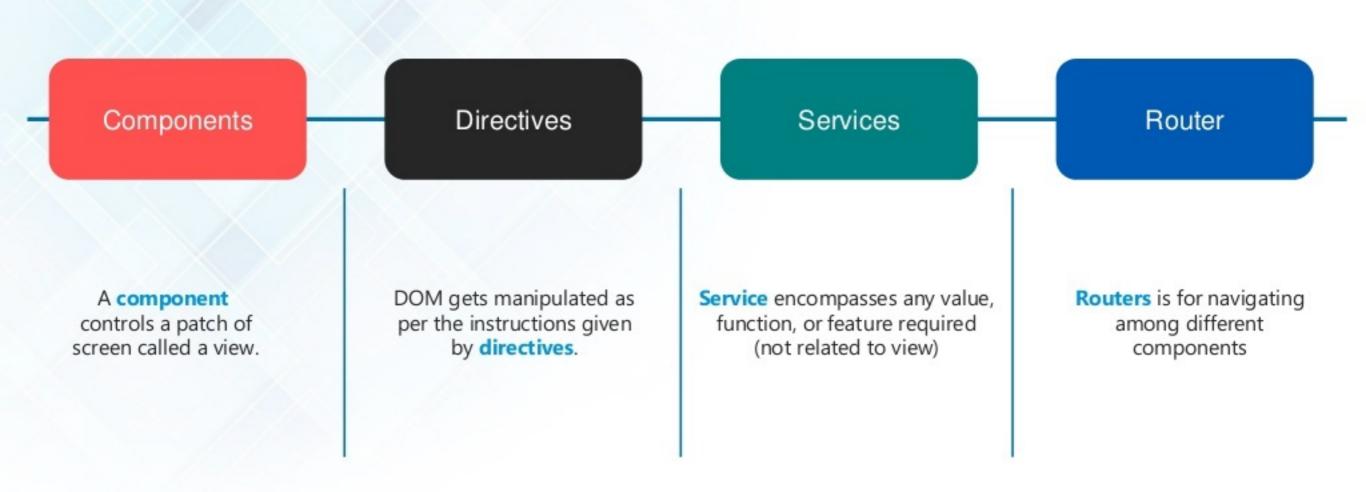
Sample Web Application



Building Blocks of Angular 2

Building Blocks

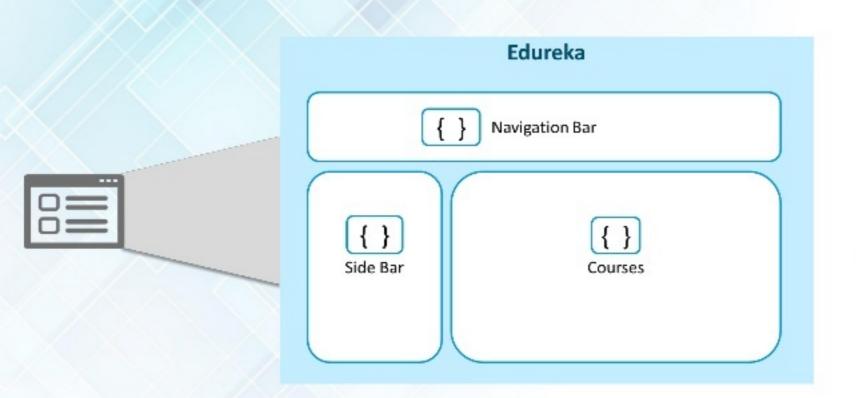
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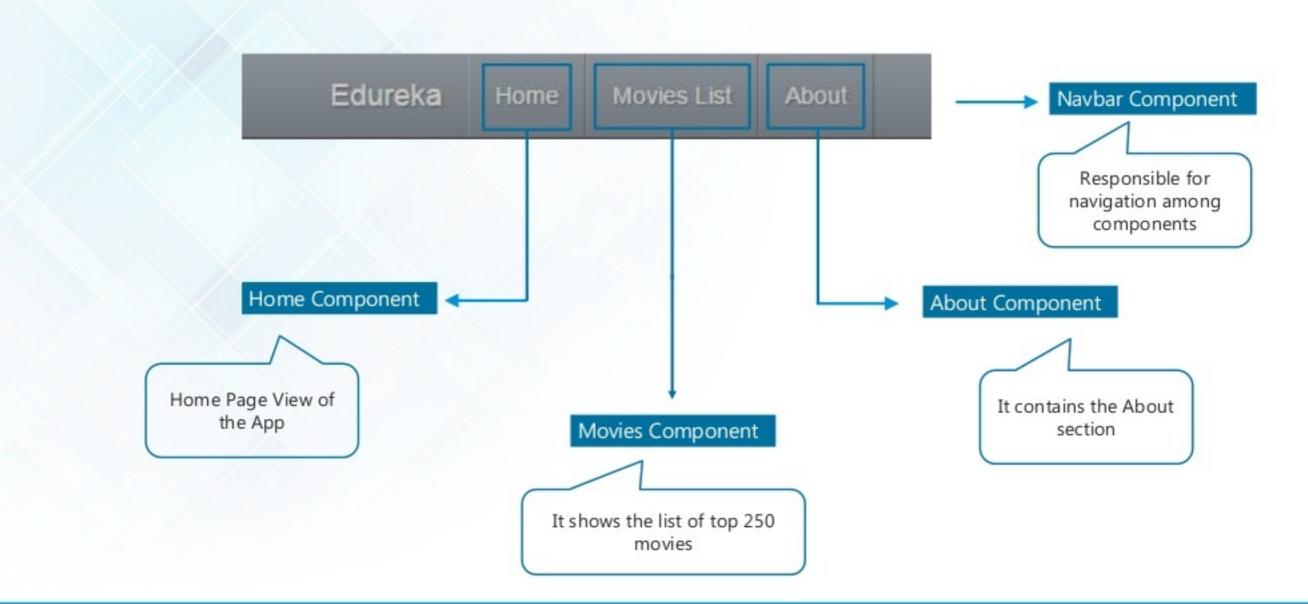
Components

Components

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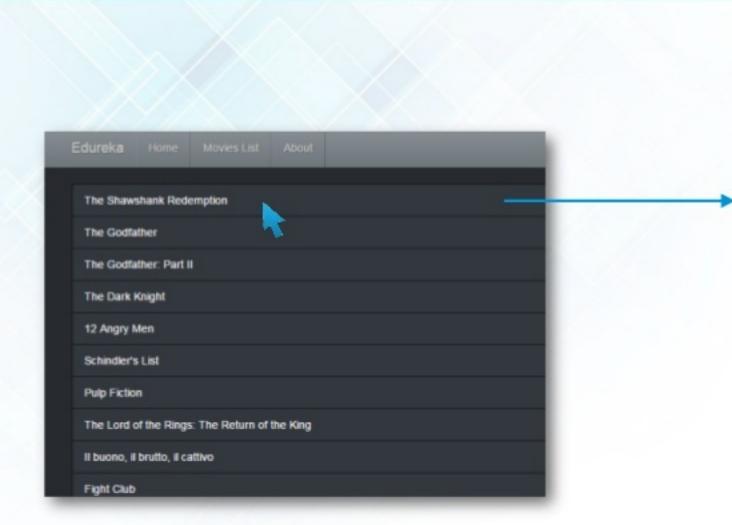


In Angular Web Apps, all the view functionalities are implemented as separate components



Component

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Movies Component (List of Movies)



Movie Details Component

Displays details of the selected movie

A Closer Look at Component

Movies Component

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import { Component, OnInit } from '@angular/core'; import {FirebaseService} from '../../services/firebase.service'; **Decorator: Specifies** @Component({ Generates component tag, used for component meta data selector: 'app-movies', loading component across other templateUrl: './movies.component.html', components Paths to HTML and CSS styleUrls: ['./movies.component.css'] Style Doc export class MoviesComponent implements OnInit { movies: any[]; constructor(private firebaseService: FirebaseService) { } ngOnInit() { this.firebaseService.getMovies().subscribe(movies => { Component Class console.log(movies); this movies = movies; }); this.firebaseService.searchMovies().subscribe(movies => { console.log(movies); });

Directives

Changes the appearance or behavior of a DOM element

1 Components

Directives with a template

2 Structural Directives

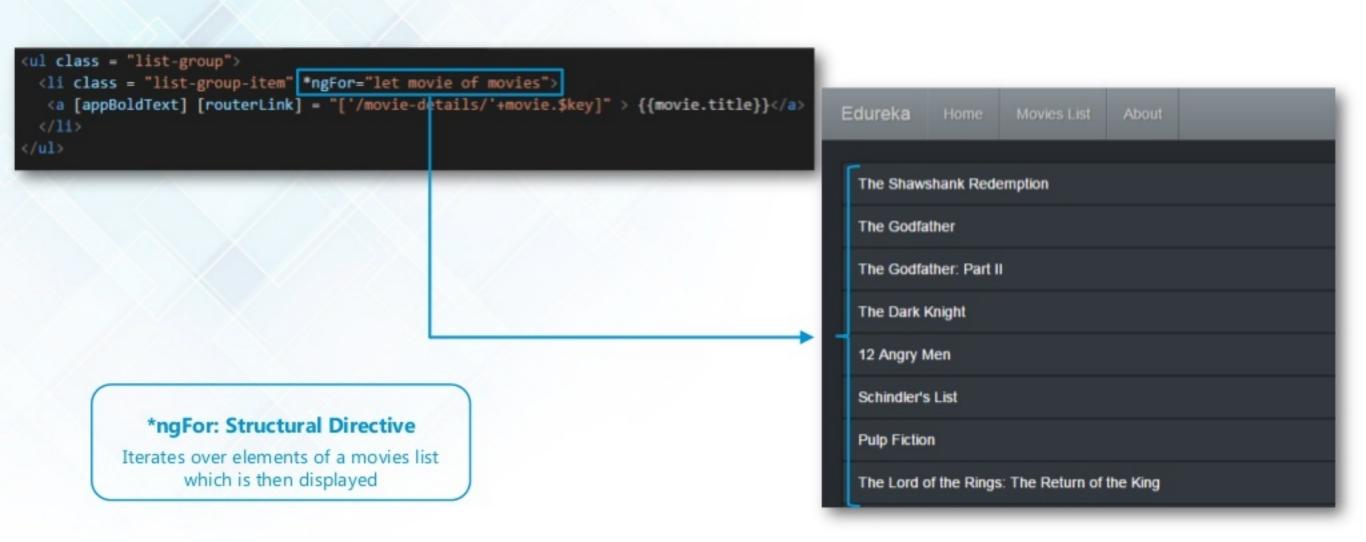
Adds & removes DOM elements to change DOM layout

3 Attributes Directive

Changes the appearance or behavior of an element

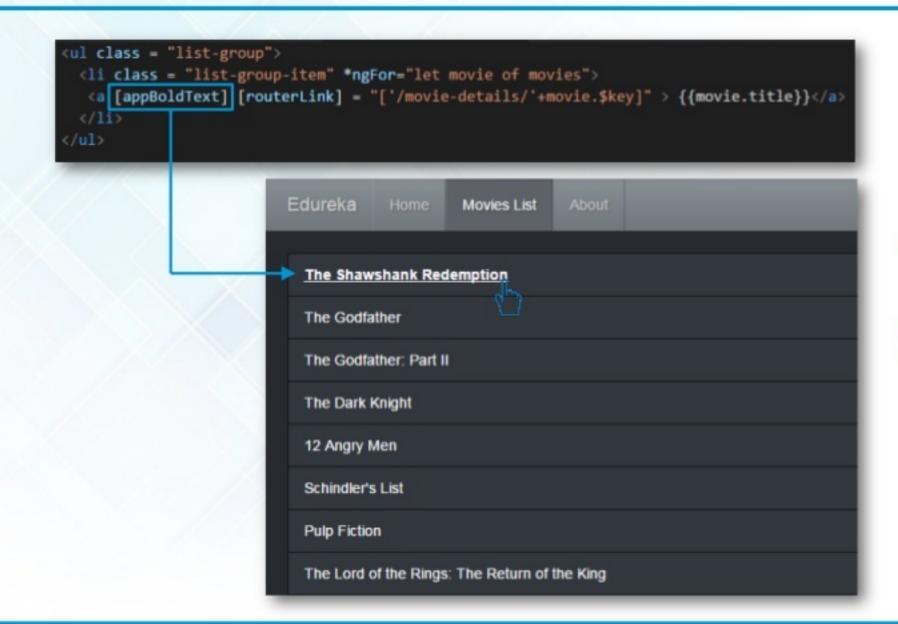
A Closer Look at Structural Directives

Directive



A Closer Look at Attributes Directives

Directive



*appBoldText: Attributes Directive

Makes the text to be bold if user points a movie in the list

Services

Services

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Service is a broad category encompassing any value, function, or feature that your application needs.

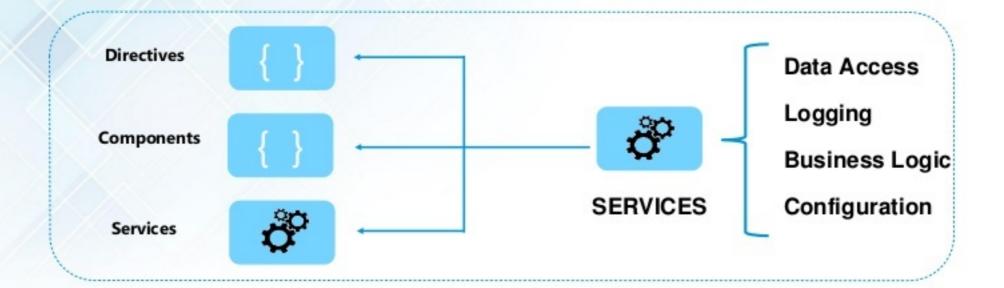
Example:

logging service

data service

message bus

tax calculator



Closer Look at Services

Services

```
@Injectable()
          Decorator
                                export class FirebaseService {
                                           movies: FirebaseListObservable<any[]>;
                                           movie: FirebaseObjectObservable<any>;
                                           term = "Manch";
                                  constructor(private af: AngularFire) { }
                                    getMovies()
 Service to fetch list of
 movies from database
                                         this.movies = this.af.database.list('/movies') as FirebaseListObservable<Movie[]>;
                                         return this.movies;
                                     getMovieDetails(id)
Service to fetch details of
                                       this.movie = this.af.database.object('/movies/'+id) as FirebaseObjectObservable<Movie>;
 a selected movie from
                                       return this.movie;
       database
```

Dependency Injection

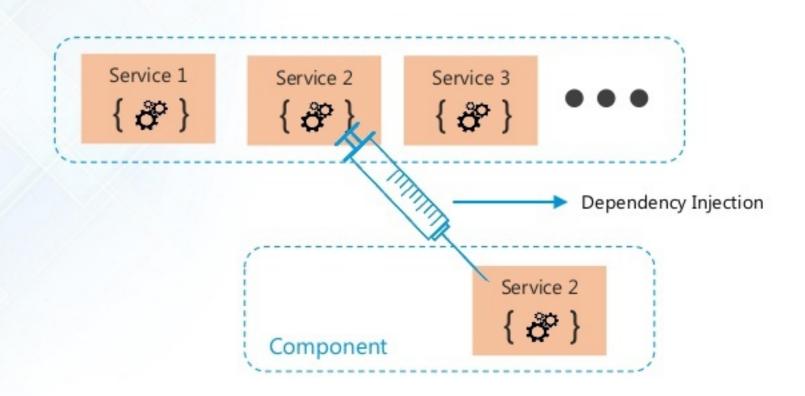
Dependency Injection

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Creates a new instance of class along with its required dependencies

Used to provide services to a components as per their needs

The process of providing a service to component is called Dependency Injection



Dependency Injection Example

Injecting Services

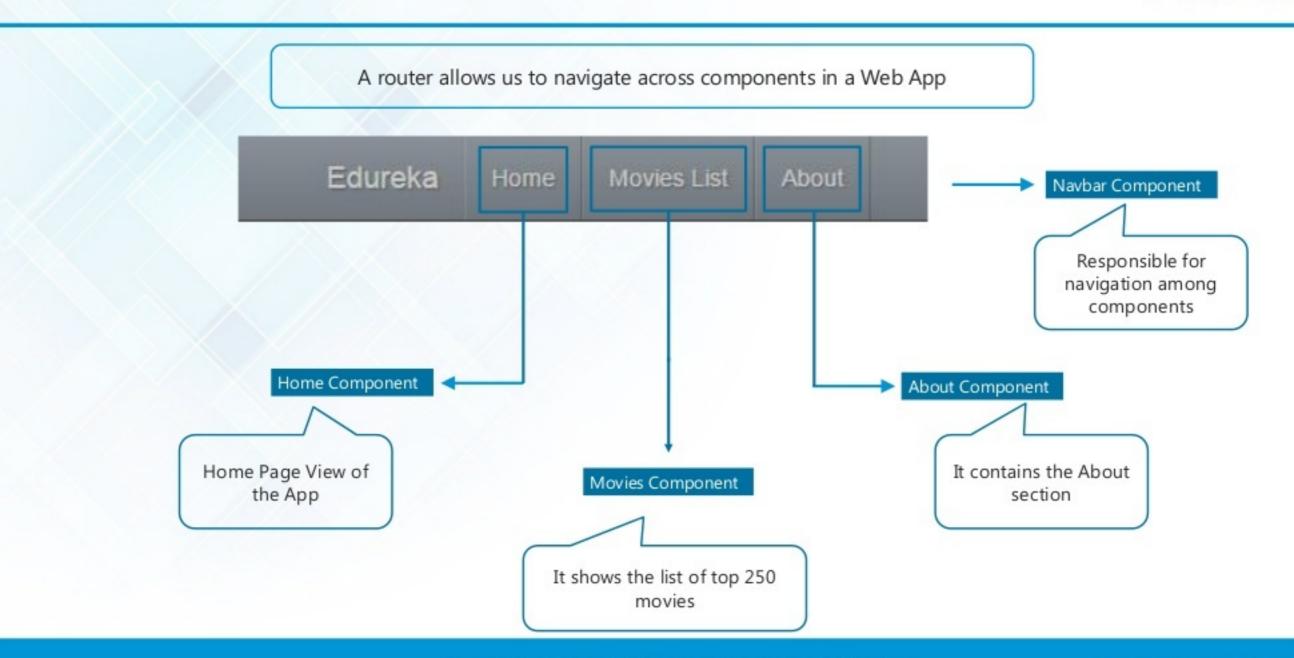
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```
import {FirebaseService} from '../../services/firebase.service';
@Component({
 selector: 'app-movies',
 templateUrl: './movies.component.html',
 styleUrls: ['./movies.component.css']
export class MoviesComponent implements OnInit {
movies: any[];
constructor(private firebaseService: FirebaseService) { } -
  ngOnInit() {
      this.firebaseService.getMovies().subscribe(movies => {
       console.log(movies);
        this.movies = movies;
      1);
      this.firebaseService.searchMovies().subscribe(movies => {
          console.log(movies);
      });
```

Dependency Injection:

Injecting Service into components

Router



A Closer Look at Router

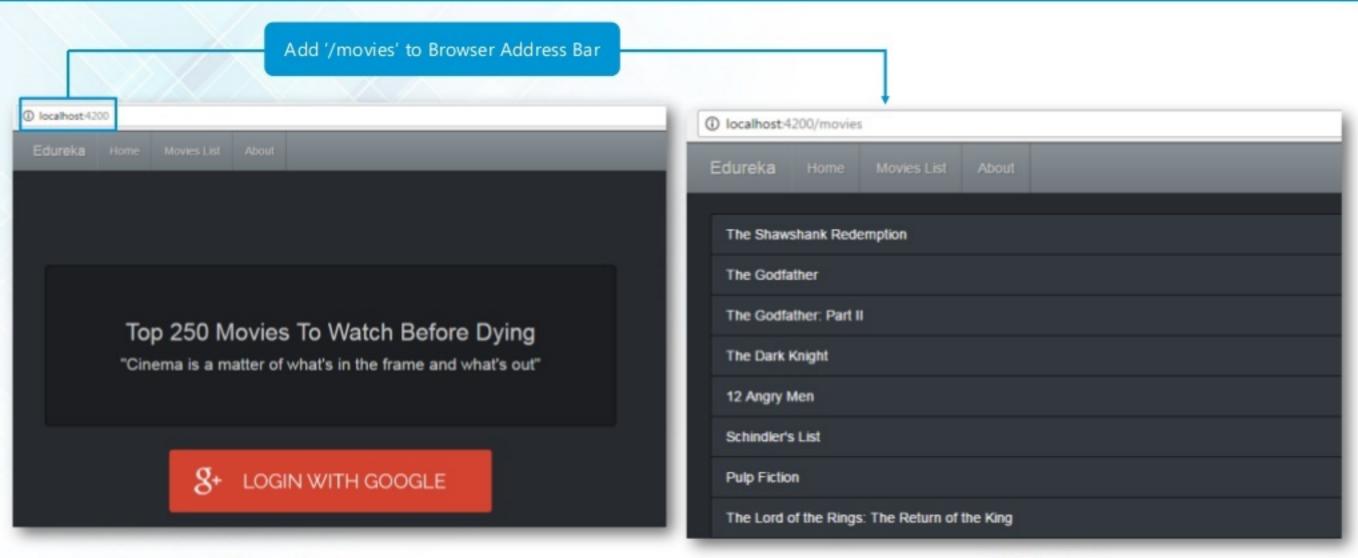
```
const routes: Routes =[
                                        {path: , component: HomeComponent },
 Path Declaration for different
                                         {path: 'movies', component: MoviesComponent},
                                         {path: 'about', component: AboutComponent},
        components
                                        {path: 'movie-details/:id', component: MovieDetailsComponent}
                                       @NgModule({
                                         declarations: [
                                           AppComponent,
                                           HomeComponent,
                                           MoviesComponent,
                                           NavbarComponent,
                                           MovieDetailsComponent,
                                           AboutComponent,
                                         imports: [
                                           BrowserModule,
                                           FormsModule,
                                           HttpModule,
Passing Declared Paths Array to
                                           RouterModule.forRoot(routes),
       RouterModule
                                           AngularFireModule.initializeApp(firebaseConfig,firebaseAuthConfig),
                                           FlashMessagesModule
```

```
<a [routerLink] = "['/movie-details/'+listing.$key]"> {{listing.title}}</a>
 Navigation from Movies List Component to Move
                          Details Component
                    [ routerLink ] = " [ ' < path >' ] "
                                            MoviesDetailsComponent
 MoviesComponent
```

Allows to navigate to a Component by pasting its path in Browser Address Bar

<router-outlet>

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Home Page Movies List

Final Demo

