

Angular Material

[Version 12.0.4]

- Material provides UI and UX components form Angular.
- It is native to Angular.
- It is built-by Google Angular Team
- Provide Unified UX across devices.

Install Angular Material

- You have to add “Angular Material” to existing project.
- Run the following command in Angular Workspace

> ng add @angular/material

*Would you like to add Typography?

Y

*Select a Pre-built Theme: Choose any theme

*Add Browser Animations Module? Y

- This will update following files
 - package.json
 - index.html
 - Roboto font
 - angular.json
 - Configure Styles
 - app.module.ts
- Setup theme file in “Styles.css”
@import
'@angular/material/prebuilt-themes/indigo-pink.css';

Angular Components

How to Explore Components?

- Visit
<https://material.angular.io/components>
- Select any component

- Go to “API” tab to know about the properties, methods and modules required for component
 - Know your component module name
 - Know the dependencies for required module
 - Know the selector for component
 - Know the properties and methods for component

Component: Form Field [Directive as Element]

- Module Required for Form Field
 - **MatFormFieldModule**
- Dependencies
 - **MatError**
 - **MatFormField**
 - **MatHint**

- **MatPlaceholder**
- **MatPrefix**
- **MatSuffix**
- **MatLabel**
- Get Selector Name from API
 - **mat-form-field**
- Get Properties from API
 - @Input() appearance:
MatFormFieldAppearance
[appearance]
 - @Input() color: ThemePalette
[color]
- Go to “Interfaces” category in API to get information about property values.
 - **MatFormFieldAppearance =**
'legacy' | 'standard' | 'fill' |
'outline'

Syntax:

```
<mat-form-field  
appearance="legacy | standard | fill |  
outline">  
  
</mat-form-field>
```

Component: Input [Directive as Attribute]

- Module
 - **MatInputModule**
- Attribute Name
 - **matInput**

Syntax:

```
<input type="text" matInput>
```

Ex: Implementing Material Components

- **Go to “app.module.ts”**
import { MatFormFieldModule } from
'@angular/material/form-field';

```
import { MatInputModule } from  
'@angular/material/input';
```

```
@NgModule({  
  imports: [  
    BrowserModule,  
    FormsModule,  
    BrowserAnimationsModule,  
    MatFormFieldModule,  
    MatInputModule  
  ],  
})
```

- Go to your “component.html”

```
<div class="container">
```

```
  <h2>Material Demo</h2>
```

```
  <mat-form-field appearance="legacy"  
class="block-style" >
```

```
    <mat-label>User Name</mat-label>
```

```
<input [(ngModel)]="UserName"
type="text" matInput
placeholder="Enter User Name">

<mat-hint>Name in Block
Letters</mat-hint>

<mat-error>Name Required</mat-
error>

</mat-form-field>

<h3>Hello ! {{UserName}} </h3>

</div>
```

- **Component.css**

```
.block-style {
  width: 100%;
}
```

- **Component.ts**

```
UserName = ' ';
```


