

# 1. Welcome to Angular

1) Konsol dibuka dan diarahkan ke dalam folder w06s04. Kemudian perintah 'ng new app1 -18' diketik maka akan muncul folder seperti berikut.

e (E) > IT Del > Perkuliahan > semester 5 > PABWE > w6 > w06s04 > app1 >

Name	Date modified
.git	03/10/2022 13:
e2e	03/10/2022 13:
node_modules	03/10/2022 13:
src	03/10/2022 13:
.editorconfig	03/10/2022 13:
.gitignore	03/10/2022 13:
angular.json	03/10/2022 13:
package.json	03/10/2022 13:
package-lock.json	03/10/2022 13:
README.md	03/10/2022 13:
tsconfig.json	03/10/2022 13:
tslint.json	03/10/2022 13:

2) Perintah 'ng serve --open' diketikkan untuk membuka aplikasi dengan port default 4200.

```
E:\IT Del\Perkuliahan\semester 5\PABWE\w6\w06s04\app1>ng serve --open
```

3) File app.component.ts dibuka dan bagian title diubah menjadi nama pribadi.

```
<> app.component.html X # app.component.css
E: > IT Del > Perkuliahan > semester 5 > PABWE > w6 > w06s04 > app1 > src > app
1 <!--The content below is only a placeholder and can be replaced.-->
2 <div style="text-align:center">
3   <h1>
4     Selamat Datang {{ title }} di Situs ini!
5   </h1>
6   
3   <h1>
4     Selamat Datang {{ title }} di Situs ini!
5   </h1>
6   
2   <h3 class="ui header">Add a Link</h3>
3   <div class="field">
4     <label for="title">Title:</label>
5     <input name="title" #newtitle> <!--perhatikan ini-->
6   </div>
7   <div class="field">
8     <label for="link">Link:</label>
9     <input name="link" #newlink> <!--perhatikan ini-->
10  </div>
11  <button (click)="addArticle(newtitle, newlink)" class="ui positive right floated button">
12    Submit Link
13  </button>
14 </form>
15 <div class="ui grid posts">
16   <app-article></app-article>
17 </div>
```

3) File app.component.ts ditambahkan skrip fungsi addArticle sebagai berikut.

> app.component.html

TS app.component.ts X

E: > IT Del > Perkuliahan > semester 5 > PABWE > w6 > w06s04 > voting > src > app > TS app.comp

```
1 import { Component } from '@angular/core';
2
3 @Component({
4   selector: 'app-root',
5   templateUrl: './app.component.html',
6   styleUrls: ['./app.component.css']
7 })
8 export class AppComponent {
9   addArticle(title: HTMLInputElement, link: HTMLInputElement): boolean{
10     console.log(`Tambahkan article dengan judul: ${title.value} dan tautan: ${link.value}`);
11     return false;
12   }
13 }
14
```

4) Fungsi addArticle di-binding dengan event onClick dengan parameter yang dimiliki adalah newtitle dan newlink sebagai berikut.

```
11 <button (click)="addArticle(newtitle, newlink)" class="ui positive right floated button">
12   Submit Link
13 </button>
```

### 3. Aplikasi voting extended component

- 1) Perintah “ng generate component article” diketikan maka akan terdapat folder article.
- 2) File article.component.html dibuka dan diubah seperti sebagai berikut.

```
<> article.component.html X
E: > IT Del > Perkuliahan > semester 5 > PABWE > w6 > w06s
1  <div class="four wide column center aligned votes">
2    <div class="ui statistic">
3      <div class="value">
4        {{votes}}
5      </div>
6      <div class="label">
7        Points
8      </div>
9    </div>
10 </div>
11
12 <div class="twelve wide column">
13   <a class="ui large header" href="{{link}}">
14     {{title}}
15   </a>
16   <ul class="ui big horizontal list voters">
17     <li class="item">
18       <a href (click)="voteUp()">
19         <i class="arrow up icon"></i>
20         upvote
21       </a>
22     </li>
23     <li class="item">
24       <a href (click)="voteDown()">
25         <i class="arrow down icon"></i>
26         downvote
27       </a>
28     </li>
29   </ul>
30 </div>
31
```

- 3) File article.component.ts diubah sebagai berikut.

```
<> article.component.html TS article.component.ts X
E: > IT Del > Perkuliahan > semester 5 > PABWE > w6 > w06s04 >
1  import { Component, OnInit } from '@angular/core';
2
3  @Component({
4    selector: 'app-article',
5    templateUrl: './article.component.html',
6    styleUrls: ['./article.component.css'],
7    host: {class: 'row'}
8  })
9  export class ArticleComponent implements OnInit {
10    votes: number;
11    title: string;
12    link: string;
13
14    constructor() {
15      this.title = 'IT Del';
16      this.link = 'https://del.ac.id';
17      this.votes = 10;
18    }
19
20    voteUp(){
21      this.votes += 1; return false;
22    }
23
24    voteDown(){
25      this.votes -= 1; return false;
26    }
27
28    ngOnInit() {
29    }
30
31  }
32
```

4) File app.component.html ditambahkan komponen article setelah tag form.

```
15 <div class="ui grid posts">
16 |   <app-article></app-article>
17 </div>
```

5) File app.module.ts ditambahkan deklarasi 'ArticleComponent'.

```
TS app.module.ts X
tel > Perkuliahan > semester 5 > PABWE > w6 > w06s04 > voting > src :
1 import { BrowserModule } from '@angular/platform-browser';
2 import { NgModule } from '@angular/core';
3
4 import { AppComponent } from './app.component';
5 import { ArticleComponent } from './article/article.component';
6
7 @NgModule({
8   declarations: [
9     AppComponent,
10    ArticleComponent // <-- ini yang ditambahkan jika belum ada
11  ],
12   imports: [
13     BrowserModule
14  ],
15   providers: [],
16   bootstrap: [AppComponent]
17 })
18 export class AppModule { }
19
```

## 4. Tugas

1) File app.component.html diubah sebagai berikut.

E: > IT Del > Perkuliahan > semester 5 > PABWE > w6 > w06s04 > votingTugas > src > app > <> app.component.html > <

```
1 <!--The content below is only a placeholder and can be replaced.-->
2 <form class="ui large form segment">
3   <h3 class="ui header">Add a Link</h3>
4   <div class="field">
5     <label for="title">Title:</label>
6     <input #myTitle name="title" #newtitle >
7   </div>
8   <div class="field">
9     <label for="link">Link:</label>
10    <input #myLink name="link" #newlink >
11  </div>
12  <button type="button" (click)="onDuplicate(newtitle, newlink)" class="ui positive right floated button">
13    Submit link
14  </button>
15 </form>
16
17 <div *ngFor="let vote of data">
18   <app-article [title]="vote.title" [link]="vote.link">
19   </app-article>
20 </div>
```

2) File article.component.ts diubah sebagai berikut.

```
export class ArticleComponent implements OnInit {
  @Input() title: string;
  @Input() link: string;
  votes = 10;

  constructor(){
  }
  voteUp(){
    this.votes += 1;
    return false;
  }
  voteDown(){
    this.votes -=1;
    return false;
  }
  ngOnInit() {
  }
}
```

3) File app.component.ts diubah sebagai berikut.

```
export class AppComponent {  
  
  data = []  
  myTitle = "daw"  
  myLink = "dawd"  
  @ViewChild('myTitle') inputTitle  
  @ViewChild('myLink') inputLink  
  
  public onDuplicate(title: HTMLInputElement, link: HTMLInputElement){  
    this.data.push({  
      title: title.value,  
      link: link.value  
    })  
    this.inputTitle.nativeElement.value = ''  
    this.inputLink.nativeElement.value = ''  
  }  
}
```