

## Project

1. Buat project baru dengan nama “umn-homes”

```
C:\> ionic

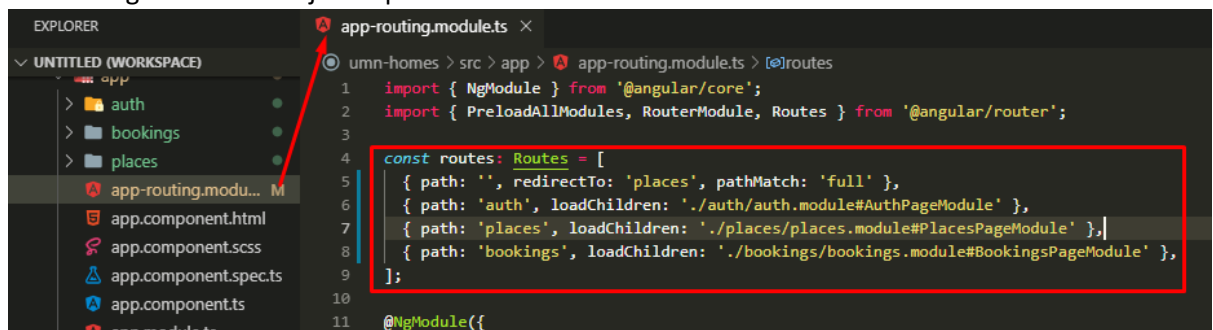
D:\ionic-course-umn>ionic start umn-homes blank
```

2. Buat page yang akan kita gunakan:

```
Command Prompt

D:\ionic-course-umn\umn-homes>ionic g page auth_
D:\ionic-course-umn\umn-homes>ionic g page places_
D:\ionic-course-umn\umn-homes>ionic g page places/discover_
D:\ionic-course-umn\umn-homes>ionic g page places/discover/place-detail_
D:\ionic-course-umn\umn-homes>ionic g page places/offers
D:\ionic-course-umn\umn-homes>ionic g page places/offers/new-offer
D:\ionic-course-umn\umn-homes>ionic g page places/offers/edit-offer
D:\ionic-course-umn\umn-homes>ionic g page places/offers/offer-bookings_
D:\ionic-course-umn\umn-homes>ionic g page bookings_
```

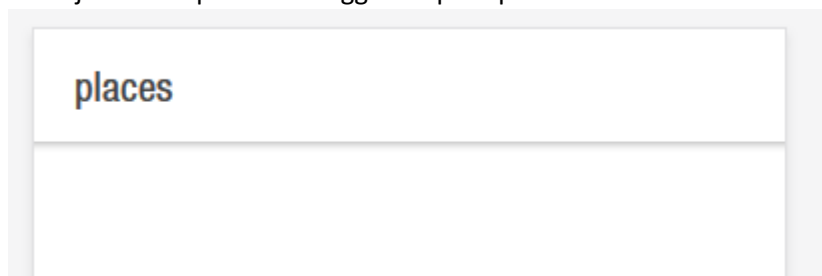
3. Set routing modules menjadi seperti berikut.



The screenshot shows the VS Code interface with the Explorer on the left and the Editor on the right. The Explorer shows a project structure with folders 'auth', 'bookings', and 'places', and files 'app-routing.module.ts', 'app.component.html', 'app.component.scss', 'app.component.spec.ts', 'app.component.ts', and 'app.module.ts'. The Editor shows the 'app-routing.module.ts' file with the following code:

```
umn-homes > src > app > app-routing.module.ts > routes
1 import { NgModule } from '@angular/core';
2 import { PreloadAllModules, RouterModule, Routes } from '@angular/router';
3
4 const routes: Routes = [
5   { path: '', redirectTo: 'places', pathMatch: 'full' },
6   { path: 'auth', loadChildren: './auth/auth.module#AuthPageModule' },
7   { path: 'places', loadChildren: './places/places.module#PlacesPageModule' },
8   { path: 'bookings', loadChildren: './bookings/bookings.module#BookingsPageModule' },
9 ];
10
11 @NgModule({
```

4. Coba jalankan aplikasi sehingga tampil seperti berikut



5. Tambahkan kode berikut pada places.page.ts

```
1 <ion-header>
2   <ion-toolbar>
3     <ion-title>Places</ion-title>
4   </ion-toolbar>
5 </ion-header>
6
7 <ion-content>
8   <ion-tabs>
9     <ion-tab-bar slot="bottom">
10       <ion-tab-button tab="discover">
11         <ion-label>Discover</ion-label>
12         <ion-icon name="search"></ion-icon>
13       </ion-tab-button>
14       <ion-tab-button tab="offers">
15         <ion-label>Offers</ion-label>
16         <ion-icon name="card"></ion-icon>
17       </ion-tab-button>
18     </ion-tab-bar>
19   </ion-tabs>
20 </ion-content>
21
```

6. Lihat hasilnya:

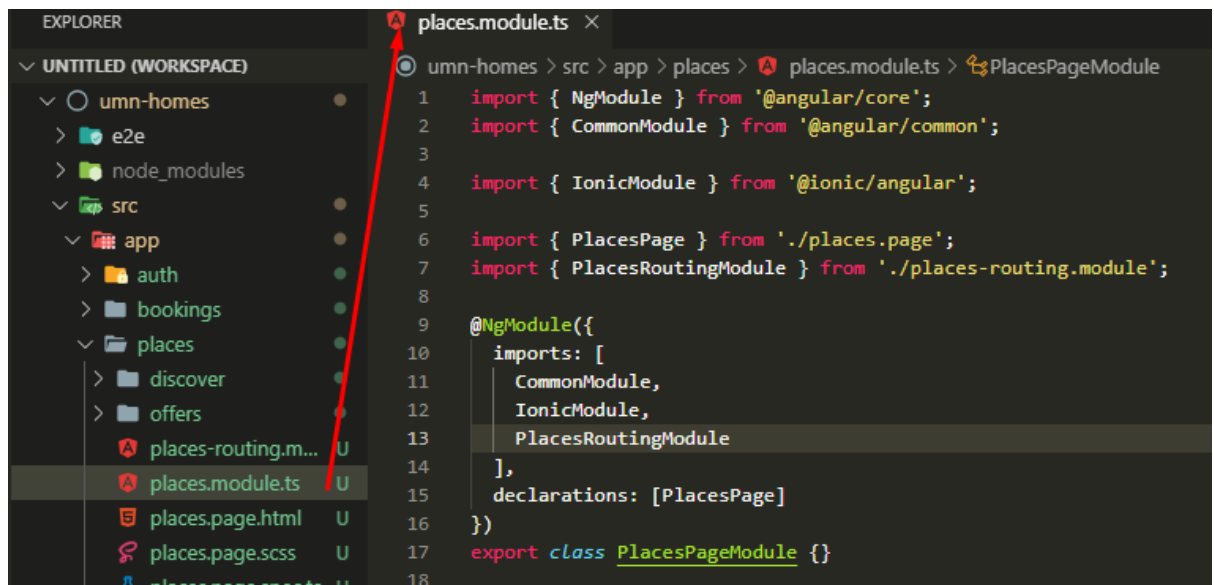


7. Buat file places-routing.module.ts dan tambahkan kode berikut:



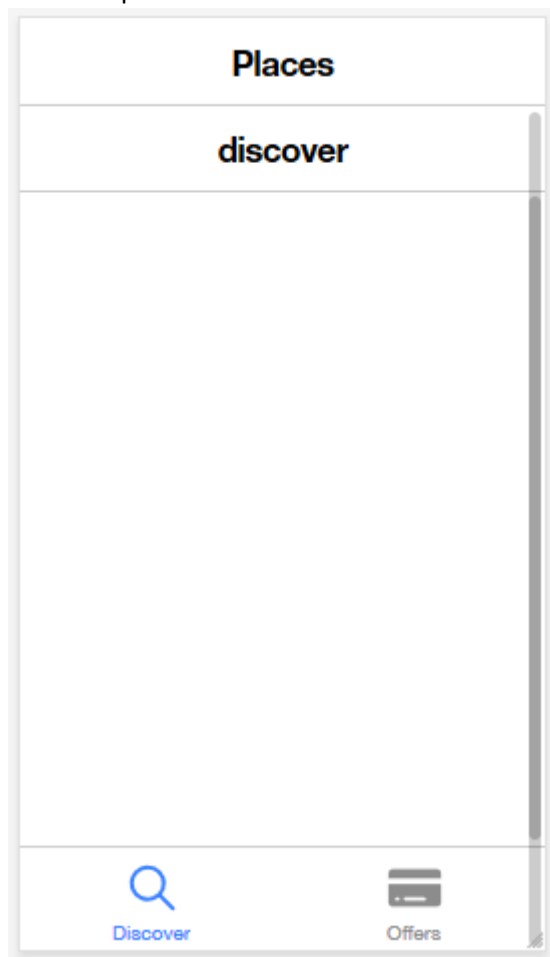
```
1 import { NgModule } from '@angular/core';
2 import { RouterModule } from '@angular/router';
3 import { PlacesPage } from './places.page';
4
5 const routes: Routes = [
6   {
7     path: 'tabs',
8     component: PlacesPage,
9     children: [
10      {
11        path: 'discover',
12        children: [
13          {
14            path: '',
15            loadChildren: './discover/discover.module#DiscoverPageModule'
16          },
17          {
18            path: ':placeId',
19            loadChildren: './discover/place-detail/place-detail.module#PlaceDetailModule'
20          }
21        ]
22      },
23      {
24        path: 'offers',
25        children: [
26          {
27            path: '',
28            loadChildren: './offers/offers.module#OffersPageModule'
29          },
30          {
31            path: 'new',
32            loadChildren: './offers/new-offer/new-offer.module#NewOfferPageModule'
33          }
34        ]
35      },
36      {
37        path: 'edit/:placeId',
38        loadChildren: './offers/edit-offer/edit-offer.module#EditOfferPageModule'
39      },
40      {
41        path: ':placeId',
42        loadChildren: './offers/offer-bookings/offer-bookings.module#OfferBookingsPageModule'
43      }
44    ]
45  },
46  {
47    path: '',
48    redirectTo: '/places/tabs/discover',
49    pathMatch: 'full'
50  }
51 ];
52
53 @NgModule({
54   imports: [RouterModule.forChild(routes)],
55   exports: [RouterModule]
56 })
57
58 export class PlacesRoutingModule {}
```

8. Modifikasi kode places.module.ts menjadi seperti berikut:



```
1 import { NgModule } from '@angular/core';
2 import { CommonModule } from '@angular/common';
3
4 import { IonicModule } from '@ionic/angular';
5
6 import { PlacesPage } from '../places.page';
7 import { PlacesRoutingModule } from '../places-routing.module';
8
9 @NgModule({
10   imports: [
11     CommonModule,
12     IonicModule,
13     PlacesRoutingModule
14   ],
15   declarations: [PlacesPage]
16 })
17 export class PlacesPageModule {}
18
```

9. Lihat tampilan di browser:



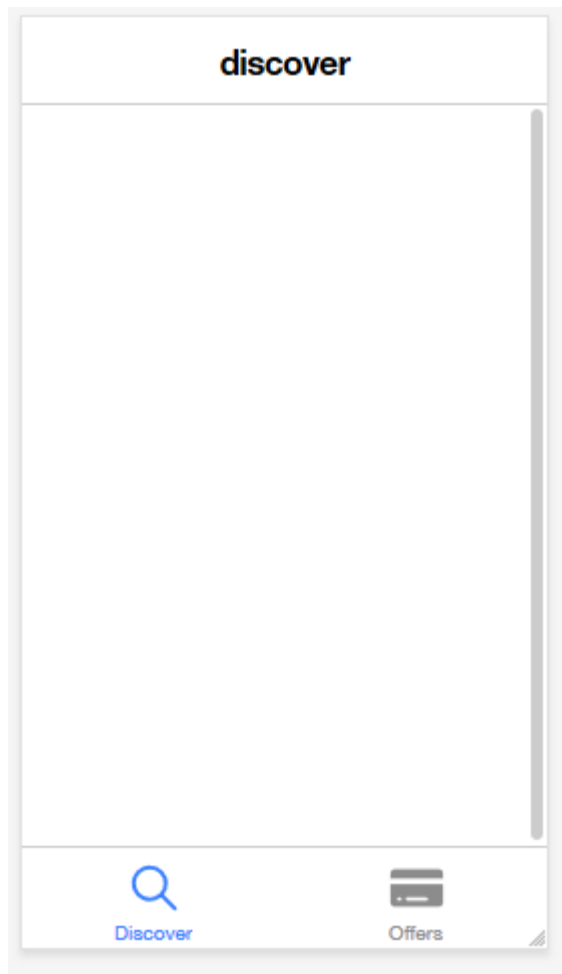
10. Modifikasi places-routing.module.ts menjadi seperti berikut:

```
1 import { NgModule } from '@angular/core';
2 import { RouterModule } from '@angular/router';
3 import { PlacesPage } from './places.page';
4
5 const routes: Routes = [
6   {
7     path: 'tabs',
8     component: PlacesPage,
9     children: [
10      { ... },
11      { ... },
12      {
13        path: '',
14        redirectTo: '/places/tabs/discover',
15        pathMatch: 'full'
16      }
17    ]
18   },
19   {
20     path: '',
21     redirectTo: '/places/tabs/discover',
22     pathMatch: 'full'
23   }
24 ];
25
26 @NgModule({
27   imports: [RouterModule.forRoot(routes)],
28   exports: [RouterModule]
29 })
30 export class PlacesRoutingModule {}
```

11. Modifikasi places.page.html menjadi seperti berikut:

```
1 <ion-tabs>
2   <ion-tab-bar slot="bottom">
3     <ion-tab-button tab="discover">
4       <ion-label>Discover</ion-label>
5       <ion-icon name="search"></ion-icon>
6     </ion-tab-button>
7     <ion-tab-button tab="offers">
8       <ion-label>Offers</ion-label>
9       <ion-icon name="card"></ion-icon>
10    </ion-tab-button>
11  </ion-tab-bar>
12 </ion-tabs>
```

12. Lihat hasilnya di browser

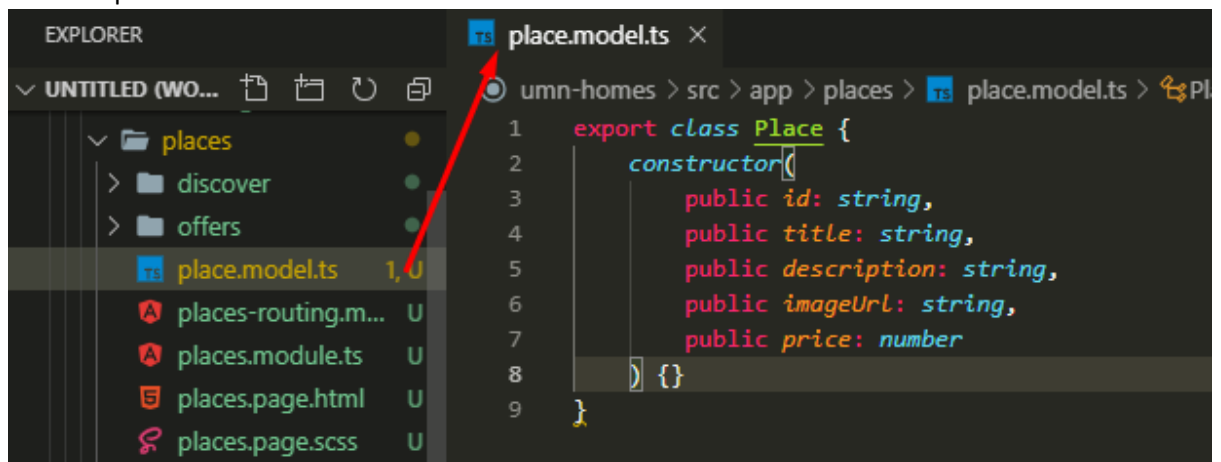


13. Buat service untuk menampung data

npm

```
D:\ionic-course-umn\umn-homes>ionic generate service places/places
```

14. Buat file place.model.ts dan tambahkan kode berikut.



15. Tambahkan kode berikut pada places.services.ts

```

4  @Injectable({
5    providedIn: 'root'
6  })
7  export class PlacesService {
8
9
10   private _places: Place[] = [
11     new Place(
12       'p1',
13       'Gading Apartment',
14       '2BR, Luas dan Cozy',
15       'http://www.desertsun.co.uk/blog/images/Apartment%201.jpg',
16       100000000
17     ),
18     new Place(
19       'p2',
20       'Serpong Apartment',
21       'Apartemen Romantis',
22       'https://static3.businessinsider.com/image/5681799ce6183e55008b526d',
23       125000000
24     ),
25     new Place(
26       'p3',
27       'BSD Apartment',
28       'Apartemen Murah',
29       'https://lh3.googleusercontent.com/-F5aY6yinaia/TW_NzIRJppI/AAAAAA',
30       50000000
31     ),
32   ];
33
34   get places() {
35     return [...this._places];
36   }

```

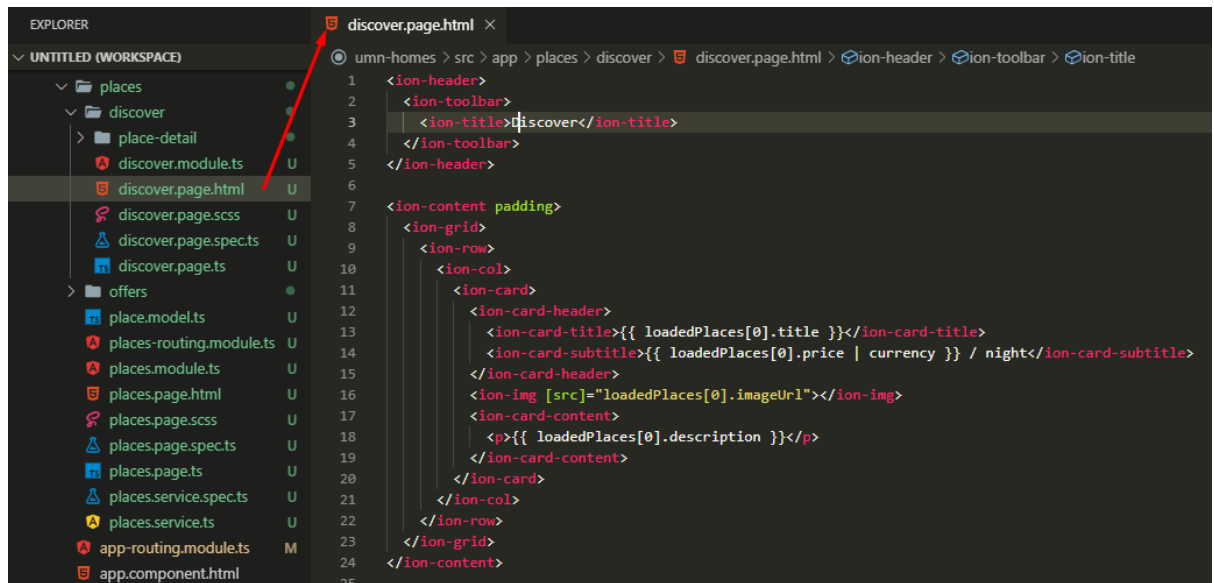
16. Tambahkan kode berikut pada discover.page.ts

```

1  import { Component, OnInit } from '@angular/core';
2  import { PlacesService } from '../places.service';
3  import { Place } from '../place.model';
4
5  @Component({
6    selector: 'app-discover',
7    templateUrl: './discover.page.html',
8    styleUrls: ['./discover.page.scss'],
9  })
10 export class DiscoverPage implements OnInit {
11   loadedPlaces: Place[];
12
13   constructor(private placesService: PlacesService) { }
14
15   ngOnInit() {
16     this.loadedPlaces = this.placesService.places;
17   }
18
19
20 }

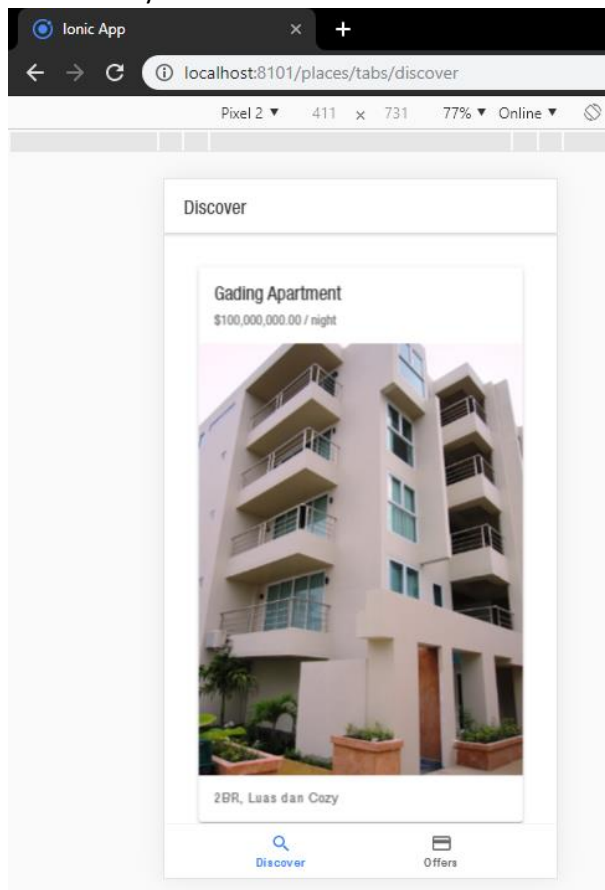
```

17. Tambahkan kode berikut pada discover.page.html



```
1 <ion-header>
2 <ion-toolbar>
3 <ion-title>Discover</ion-title>
4 </ion-toolbar>
5 </ion-header>
6
7 <ion-content padding>
8 <ion-grid>
9 <ion-row>
10 <ion-col>
11 <ion-card>
12 <ion-card-header>
13 <ion-card-title>{{ loadedPlaces[0].title }}</ion-card-title>
14 <ion-card-subtitle>{{ loadedPlaces[0].price | currency }} / night</ion-card-subtitle>
15 </ion-card-header>
16 <ion-img [src]="loadedPlaces[0].imageUrl"></ion-img>
17 <ion-card-content>
18 <p>{{ loadedPlaces[0].description }}</p>
19 </ion-card-content>
20 </ion-card>
21 </ion-col>
22 </ion-row>
23 </ion-grid>
24 </ion-content>
25
```

18. Lihat hasilnya di browser



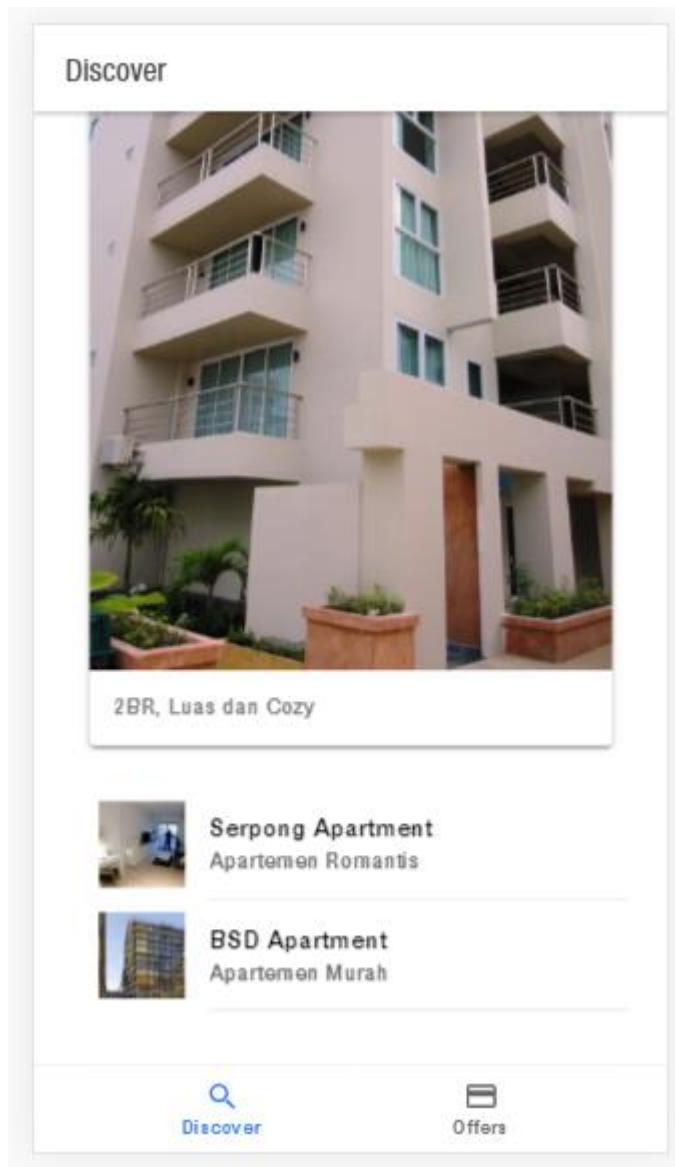
19. Tambahkan kode berikut pada discover.page.html



```
EXPLORED discover.page.html x
UNTITLED (WORKSPACE)
places
  discover
    place-detail
      discover.module.ts U
      discover.page.html U
      discover.page.scss U
      discover.page.spec.ts U
      discover.page.ts U
    offers
      place.model.ts U
      places-routing.module.ts U
      places.module.ts U
      places.page.html U
      places.page.scss U
      places.page.spec.ts U
      places.page.ts U
      places.service.spec.ts U
      places.service.ts U
  app-routing.module.ts M
  app.component.html
  app.component.scss
  app.component.spec.ts
  app.component.ts
  app.module.ts
  assets
  environments
OUTLINE
NPM SCRIPTS

7 <ion-content padding>
8 <ion-grid>
9 <ion-row>
10 <ion-col>
11 <ion-card>
12 <ion-card-header>
13 <ion-card-title>{{ loadedPlaces[0].title }}</ion-card-title>
14 <ion-card-subtitle>{{ loadedPlaces[0].price | currency }}</ion-card-subtitle>
15 </ion-card-header>
16 <ion-img [src]="loadedPlaces[0].imageUrl"></ion-img>
17 <ion-card-content>
18 <p>{{ loadedPlaces[0].description }}</p>
19 </ion-card-content>
20 </ion-card>
21 </ion-col>
22 </ion-row>
23 <ion-row>
24 <ion-col size="12" size-sm="8" offset-sm="2" text-center>
25 <ion-list>
26 <ion-item *ngFor="let place of loadedPlaces.slice(1)">
27 <ion-thumbnail slot="start">
28 <ion-img [src]="place.imageUrl"></ion-img>
29 </ion-thumbnail>
30 <ion-label>
31 <h2>{{ place.title }}</h2>
32 <p>{{ place.description }}</p>
33 </ion-label>
34 </ion-item>
35 </ion-list>
36 </ion-col>
37 </ion-row>
38 </ion-grid>
39 </ion-content>
40
```

20. Lihat hasilnya di browser



21. Tambahkan kode berikut pada discover.page.html untuk menambahkan button “More”

EXPLORER

discover.page.html

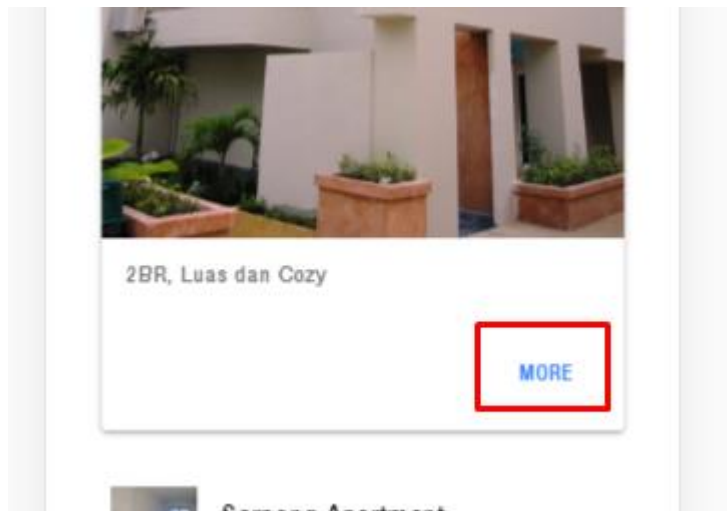
ummn-homes > src > app > places > discover > discover.page.html > ion-content >

```

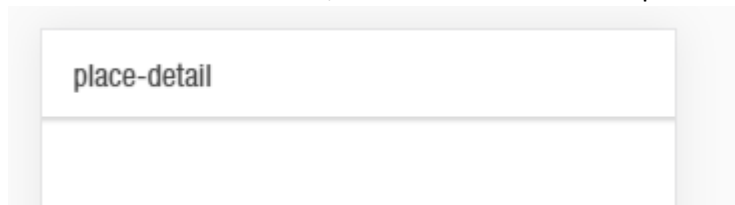
15 </ion-card-header>
16 <ion-img [src]="loadedPlaces[0].imageUrl"></ion-img>
17 <ion-card-content>
18 <p>{{ loadedPlaces[0].description }}</p>
19 </ion-card-content>
20 <div text-right padding>
21 <ion-button fill="clear" color="primary" [routerLink]="[
22 '/',
23 'places',
24 'tabs',
25 'discover',
26 loadedPlaces[0].id]>More</ion-button>
27 </div>
28 </ion-card>
29 </ion-col>
30 </ion-row>

```

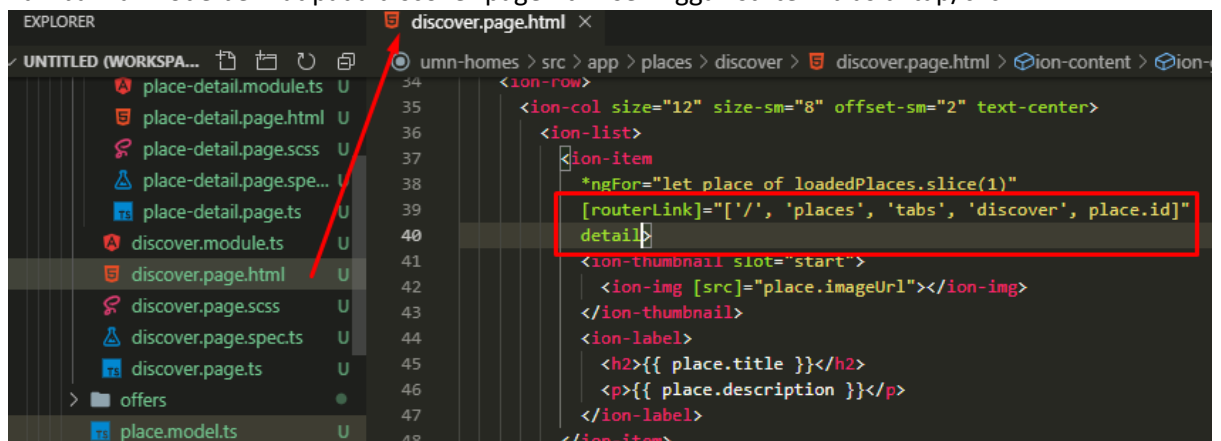
22. Lihat hasilnya di browser:



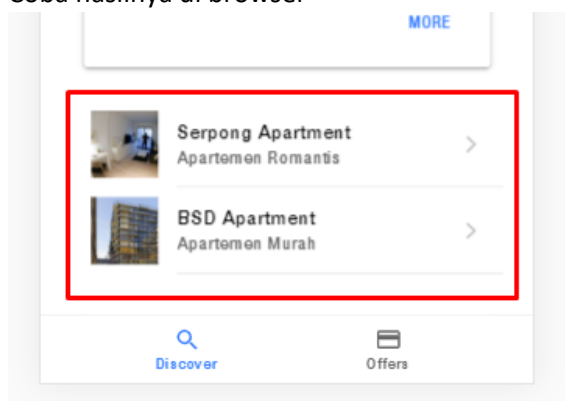
23. Coba click tombol tersebut, akan membuka halaman place-detail



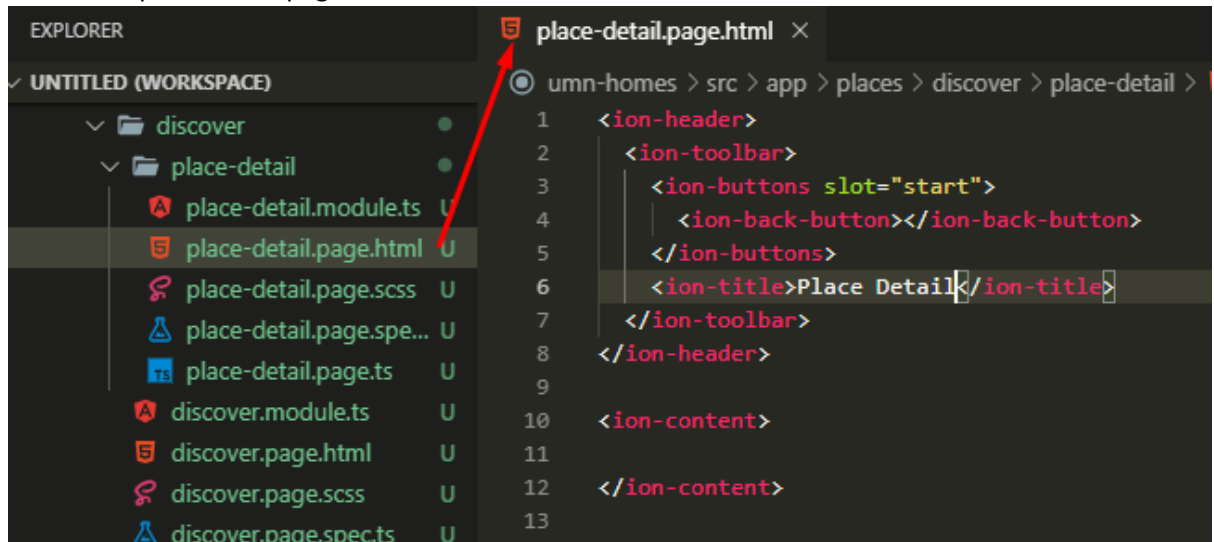
24. Tambahkan kode berikut pada discover.page.html sehingga list-item bias di tap/click.



25. Coba hasilnya di browser



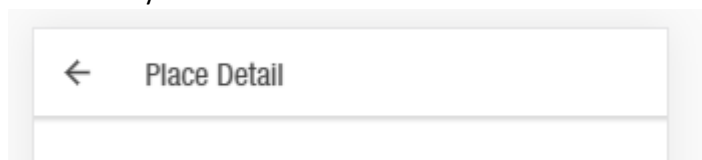
26. Modifikasi place-detail.page.html untuk menambahkan back button.



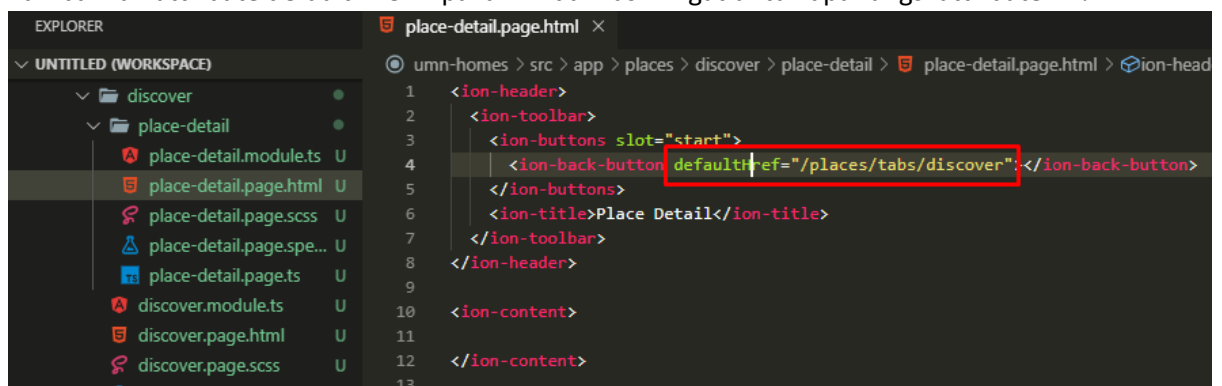
The screenshot shows the VS Code editor with the Explorer sidebar on the left and the Editor pane on the right. The Explorer sidebar shows the file structure of the project, with the file `place-detail.page.html` selected. The Editor pane shows the content of `place-detail.page.html`, which is a template for an Ionic page. The code is as follows:

```
1 <ion-header>
2   <ion-toolbar>
3     <ion-buttons slot="start">
4       <ion-back-button></ion-back-button>
5     </ion-buttons>
6     <ion-title>Place Detail</ion-title>
7   </ion-toolbar>
8 </ion-header>
9
10 <ion-content>
11
12 </ion-content>
13
```

27. Lihat hasilnya di browser



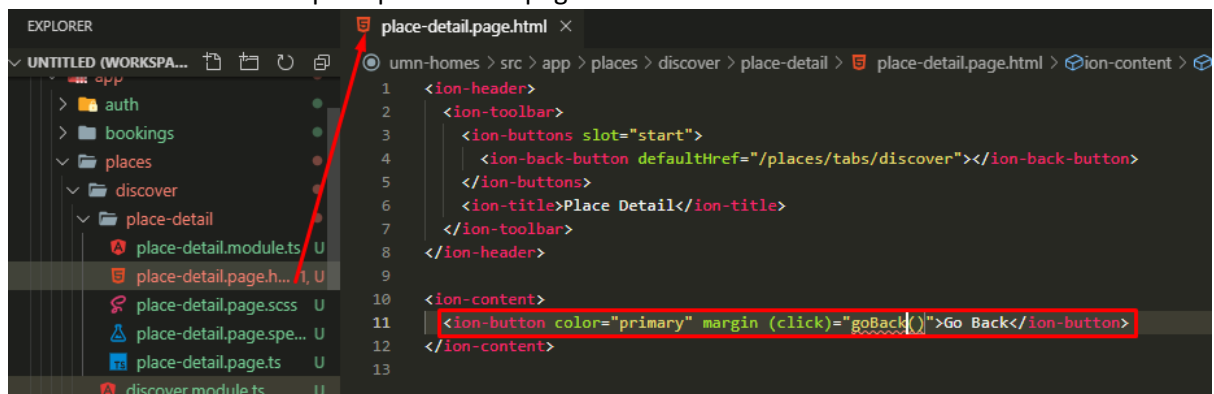
28. Tambahkan attribute default-href. Apakah Anda masih ingat untuk apa fungsi attribute ini?



The screenshot shows the VS Code editor with the Explorer sidebar on the left and the Editor pane on the right. The Explorer sidebar shows the file structure of the project, with the file `place-detail.page.html` selected. The Editor pane shows the content of `place-detail.page.html`, which is a template for an Ionic page. The code is as follows:

```
1 <ion-header>
2   <ion-toolbar>
3     <ion-buttons slot="start">
4       <ion-back-button defaultHref="/places/tabs/discover"></ion-back-button>
5     </ion-buttons>
6     <ion-title>Place Detail</ion-title>
7   </ion-toolbar>
8 </ion-header>
9
10 <ion-content>
11
12 </ion-content>
13
```

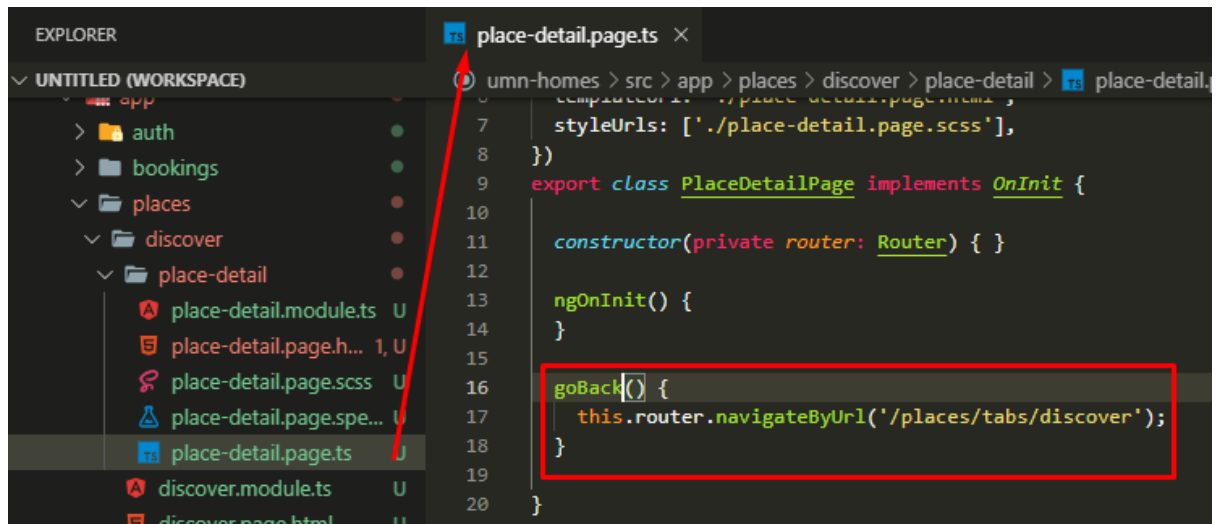
29. Tambahkan kode berikut pada place-detail.page.html



The screenshot shows the VS Code editor with the Explorer sidebar on the left and the Editor pane on the right. The Explorer sidebar shows the file structure of the project, with the file `place-detail.page.html` selected. The Editor pane shows the content of `place-detail.page.html`, which is a template for an Ionic page. The code is as follows:

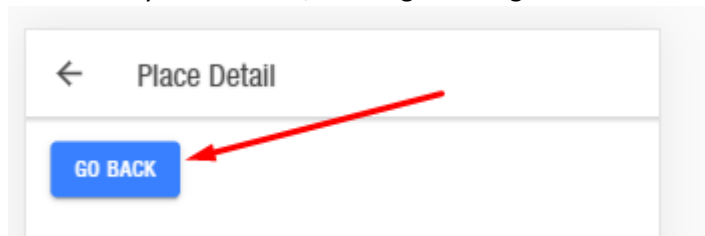
```
1 <ion-header>
2   <ion-toolbar>
3     <ion-buttons slot="start">
4       <ion-back-button defaultHref="/places/tabs/discover"></ion-back-button>
5     </ion-buttons>
6     <ion-title>Place Detail</ion-title>
7   </ion-toolbar>
8 </ion-header>
9
10 <ion-content>
11   <ion-button color="primary" margin (click)="goBack()">Go Back</ion-button>
12 </ion-content>
13
```

30. Tambahkan kode berikut pada place-detail.page.ts

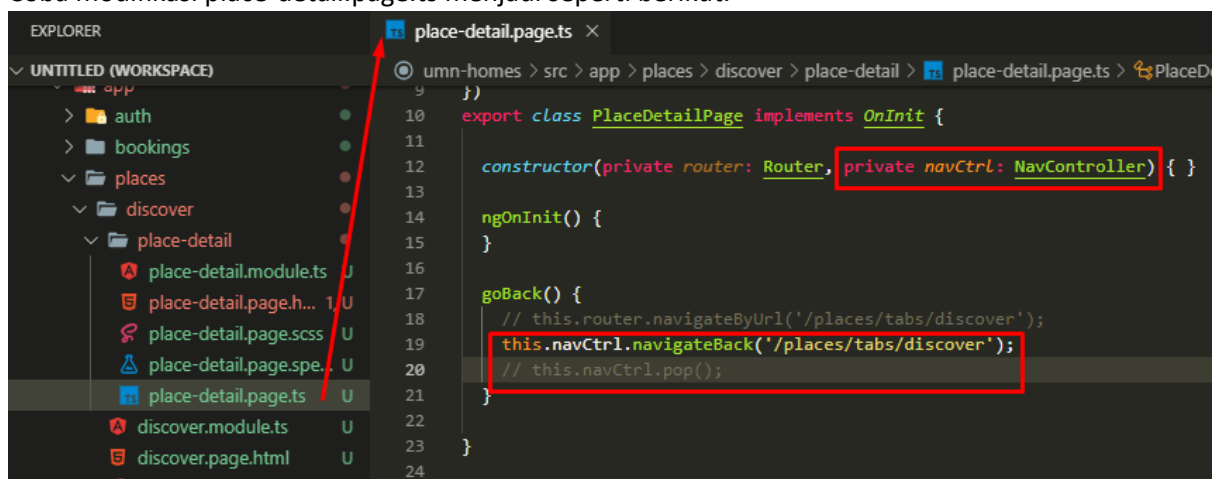


```
1  umn-homes > src > app > places > discover > place-detail > place-detail.  
2  // place-detail.page.html  
3  templateUrl: './place-detail.page.html',  
4  styleUrls: ['./place-detail.page.scss'],  
5  })  
6  export class PlaceDetailPage implements OnInit {  
7  
8  constructor(private router: Router) { }  
9  
10 ngOnInit() {  
11 }  
12  
13 goBack() {  
14   this.router.navigateByUrl('/places/tabs/discover');  
15 }  
16  
17 }  
18  
19  
20  
21
```

31. Lihat hasilnya di browser, bandingkan dengan back-button yang dibuat sebelumnya.



32. Coba modifikasi place-detail.page.ts menjadi seperti berikut.



```
1  umn-homes > src > app > places > discover > place-detail > place-detail.  
2  // place-detail.page.html  
3  templateUrl: './place-detail.page.html',  
4  styleUrls: ['./place-detail.page.scss'],  
5  })  
6  export class PlaceDetailPage implements OnInit {  
7  
8  constructor(private router: Router, private navCtrl: NavController) { }  
9  
10 ngOnInit() {  
11 }  
12  
13 goBack() {  
14   // this.router.navigateByUrl('/places/tabs/discover');  
15   this.navCtrl.navigateBack('/places/tabs/discover');  
16   // this.navCtrl.pop();  
17 }  
18  
19 }  
20  
21  
22  
23  
24
```

33. Coba lagi tombol back dan tombol goback, bandingkan hasilnya.