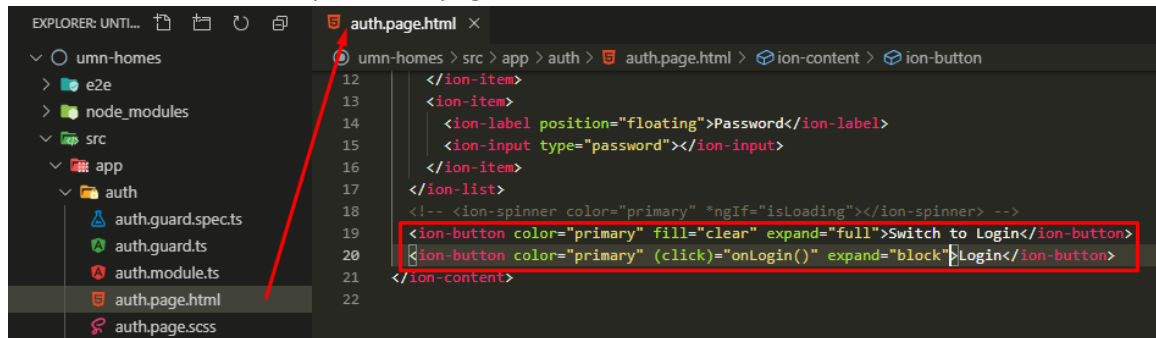


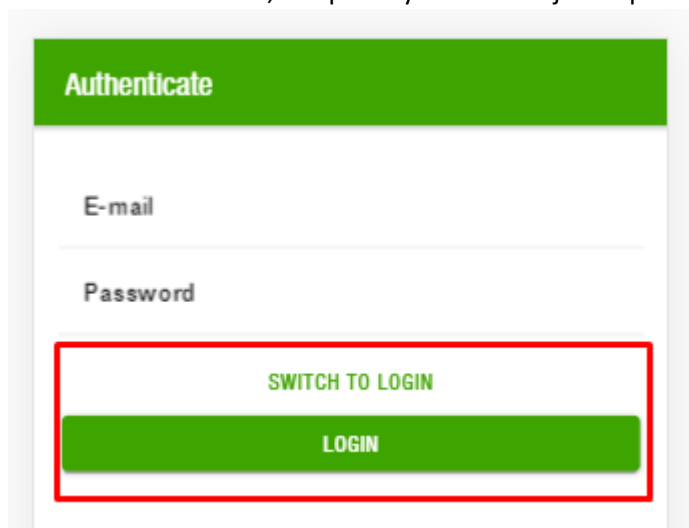
Auth Form

1. Tambahkan kode berikut pada auth.page.html

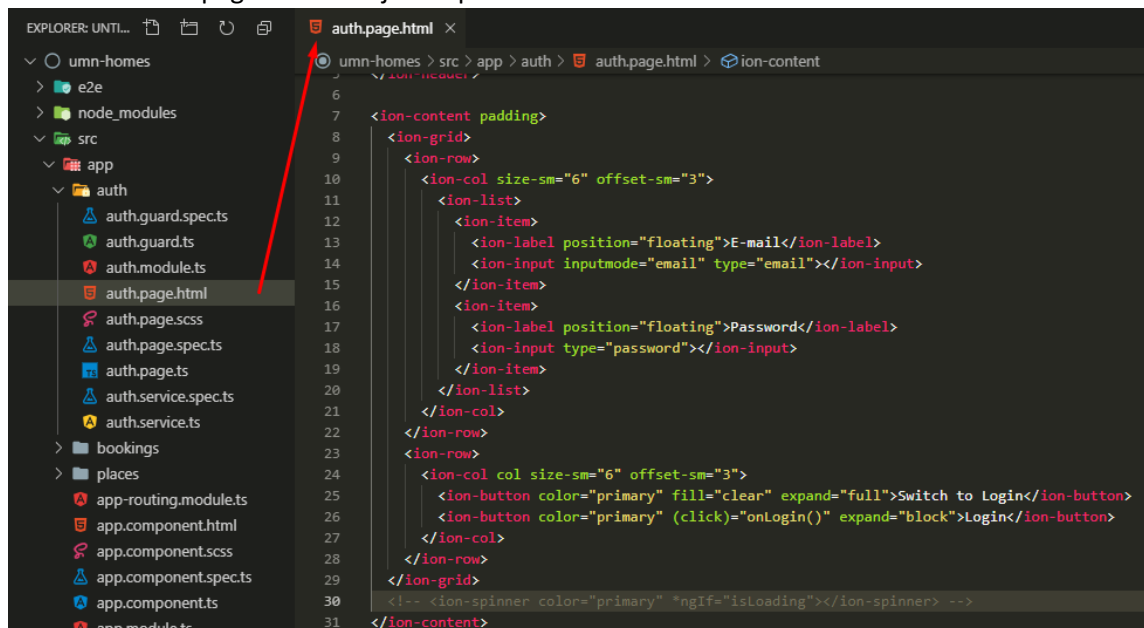


```
12 </ion-item>
13 </ion-item>
14 <ion-label position="floating">Password</ion-label>
15 <ion-input type="password"></ion-input>
16 </ion-item>
17 </ion-list>
18 <!-- <ion-spinner color="primary" *ngIf="isLoading"></ion-spinner> -->
19 <ion-button color="primary" fill="clear" expand="full">Switch to Login</ion-button>
20 <ion-button color="primary" (click)="onLogin()" expand="block">Login</ion-button>
21 </ion-content>
22
```

2. Coba buka di browser, tampilannya akan menjadi seperti berikut:



3. Modifikasi auth.page.html menjadi seperti berikut:



```
6 <ion-content>
7 <ion-content padding>
8 <ion-grid>
9 <ion-row>
10 <ion-col size-sm="6" offset-sm="3">
11 <ion-list>
12 <ion-item>
13 <ion-label position="floating">E-mail</ion-label>
14 <ion-input inputmode="email" type="email"></ion-input>
15 </ion-item>
16 <ion-item>
17 <ion-label position="floating">Password</ion-label>
18 <ion-input type="password"></ion-input>
19 </ion-item>
20 </ion-list>
21 </ion-col>
22 </ion-row>
23 <ion-row>
24 <ion-col col size-sm="6" offset-sm="3">
25 <ion-button color="primary" fill="clear" expand="full">Switch to Login</ion-button>
26 <ion-button color="primary" (click)="onLogin()" expand="block">Login</ion-button>
27 </ion-col>
28 </ion-row>
29 </ion-grid>
30 <!-- <ion-spinner color="primary" *ngIf="isLoading"></ion-spinner> -->
31 </ion-content>
```

4. Lihat hasilnya di browser, tampilan formulir login akan tetap kecil pada screen lebar (desktop).

Authenticate

E-mail

Password

SWITCH TO LOGIN

LOGIN

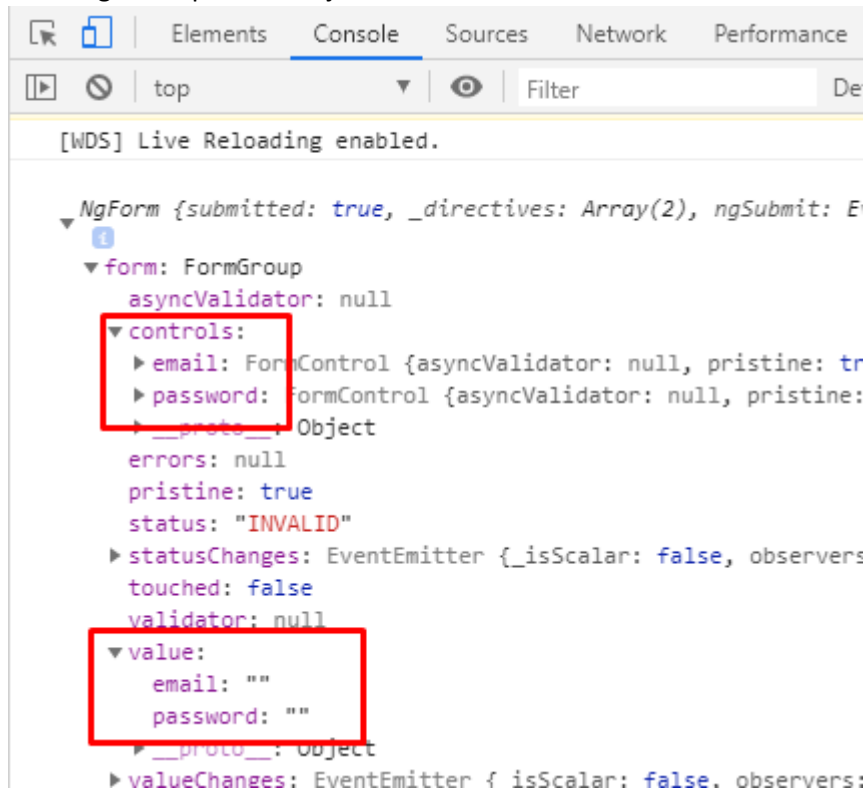
5. Modifikasi auth.page.html menjadi seperti berikut:

```
EXPLORER: UNTI... | auth.page.html x
  umn-homes > src > app > auth > auth.page.html > ion-content > form > ion-grid > ion-row > ion-col > ion-button
  7 <ion-content padding>
  8 <form #f="ngForm" (ngSubmit)="onSubmit(f)">
  9 <ion-grid>
 10 <ion-row>
 11 <ion-col size-sm="6" offset-sm="3">
 12 <ion-list>
 13 <ion-item>
 14 <ion-label position="floating">E-mail</ion-label>
 15 <ion-input
 16   inputmode="email"
 17   ngModel
 18   name="email"
 19   required
 20   email
 21   type="email"
 22 ></ion-input>
 23 </ion-item>
 24 <ion-item>
 25 <ion-label position="floating">Password</ion-label>
 26 <ion-input
 27   type="password"
 28   ngModel
 29   name="password"
 30   required
 31   minLength="6"
 32 ></ion-input>
 33 </ion-item>
 34 </ion-list>
 35 </ion-col>
 36 </ion-row>
 37 <ion-row>
 38 <ion-col col size-sm="6" offset-sm="3">
 39 <ion-button type="button" color="primary" fill="clear" expand="full">Switch to Login</ion-button>
 40 <ion-button type="submit" color="primary" (click)="onLogin()" expand="block">Login</ion-button>
 41 </ion-col>
 42 </ion-row>
 43 </ion-grid>
 44 </form>
 45 </ion-content>
```

6. Tambahkan kode berikut pada auth.page.ts

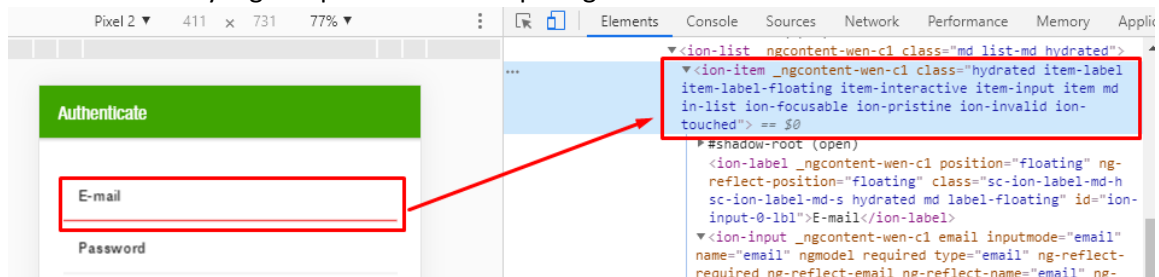
```
EXPLORER: UNTI... | auth.page.ts x
  umn-homes > src > app > auth > auth.page.ts
  35 this.authService.login();
  36 }
  37
  38 onSubmit(form: NgForm) {
  39   console.log(form);
  40 }
  41
  42 }
  43
```

7. Coba login dan perhatikan jendela console

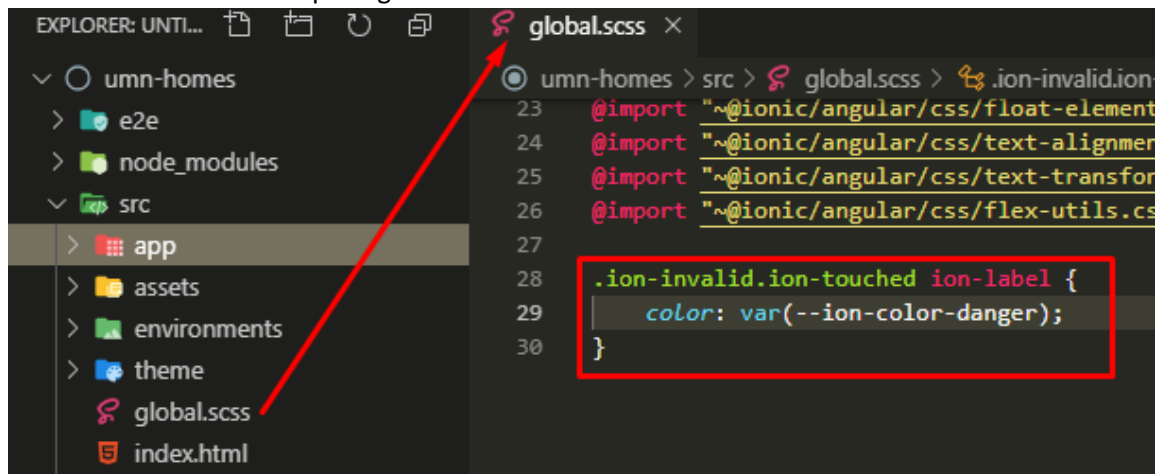


Handling Validation

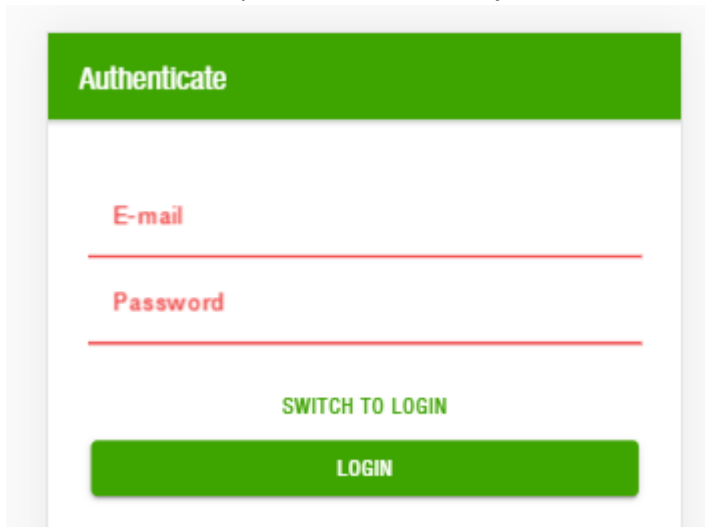
1. Perhatikan class yang ada pada ion-item seperti gambar berikut



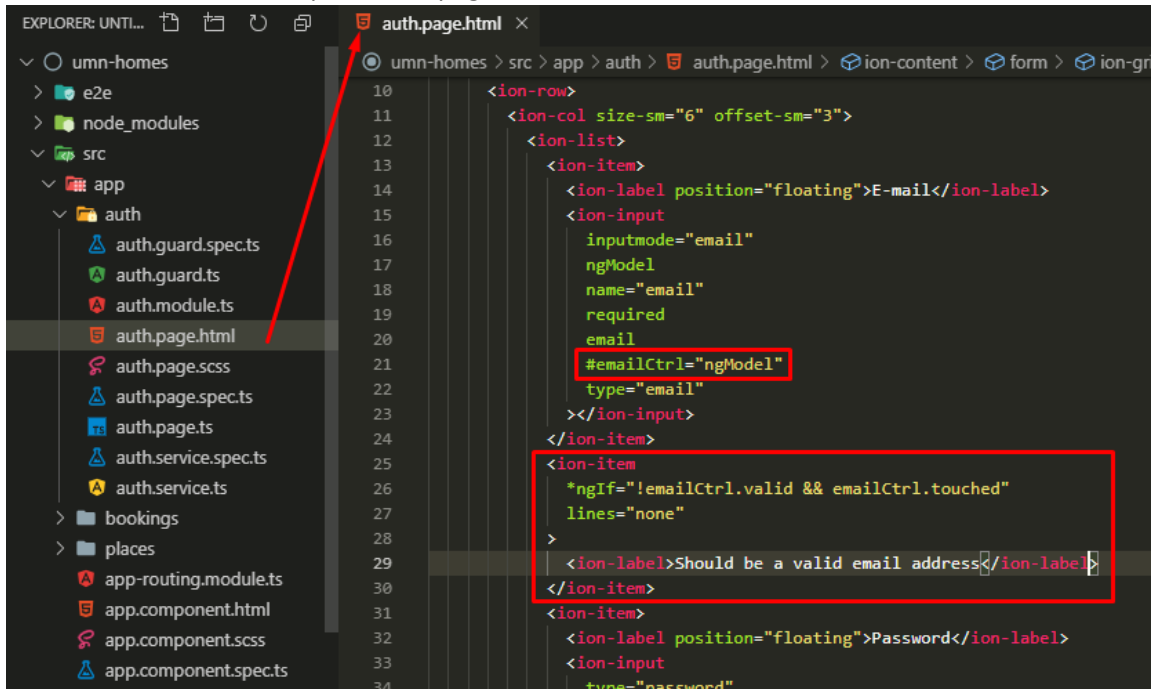
2. Tambahkan kode berikut pada global.scss



3. Coba hasilnya di browser, ketika kita meng-click input field tapi tidak diisi dengan nilai yang sesuai, maka labelnya akan berubah menjadi merah.

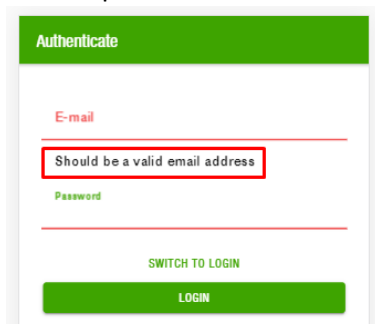


4. Tambahkan kode berikut pada auth.page.html



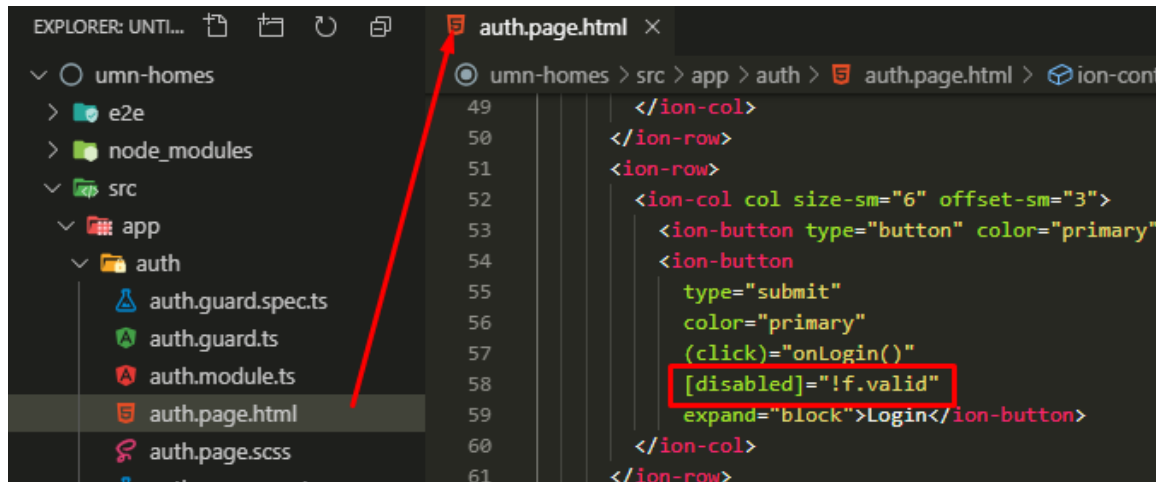
```
10 <ion-row>
11 <ion-col size-sm="6" offset-sm="3">
12 <ion-list>
13 <ion-item>
14 <ion-label position="floating">E-mail</ion-label>
15 <ion-input
16   inputmode="email"
17   ngModel
18   name="email"
19   required
20   email
21   #emailCtrl="ngModel"
22   type="email"
23 ></ion-input>
24 </ion-item>
25 <ion-item
26   *ngIf="!emailCtrl.valid && emailCtrl.touched"
27   lines="none"
28 >
29 <ion-label>Should be a valid email address</ion-label>
30 </ion-item>
31 <ion-item>
32 <ion-label position="floating">Password</ion-label>
33 <ion-input
34   type="password"
```

5. Lihat hasilnya di browser, jika kita tidak mengisi email dengan format yang benar, maka akan muncul pesan



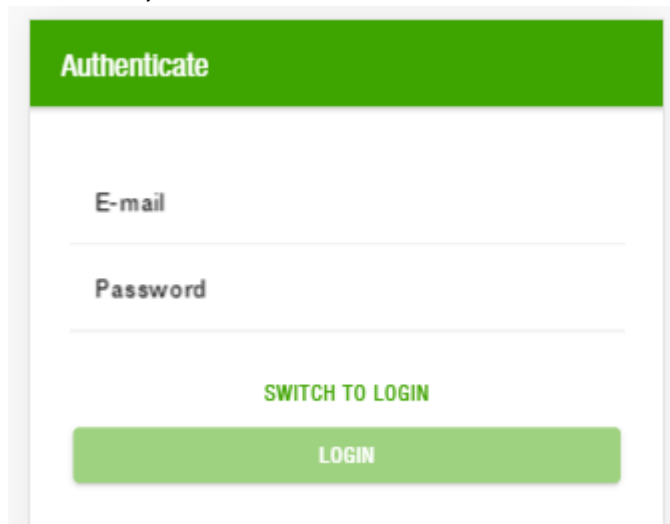
6. Coba lakukan hal yang sama untuk field password.

7. Tambahkan kode berikut pada auth.page.html sehingga tombol login disabled jika form tidak valid



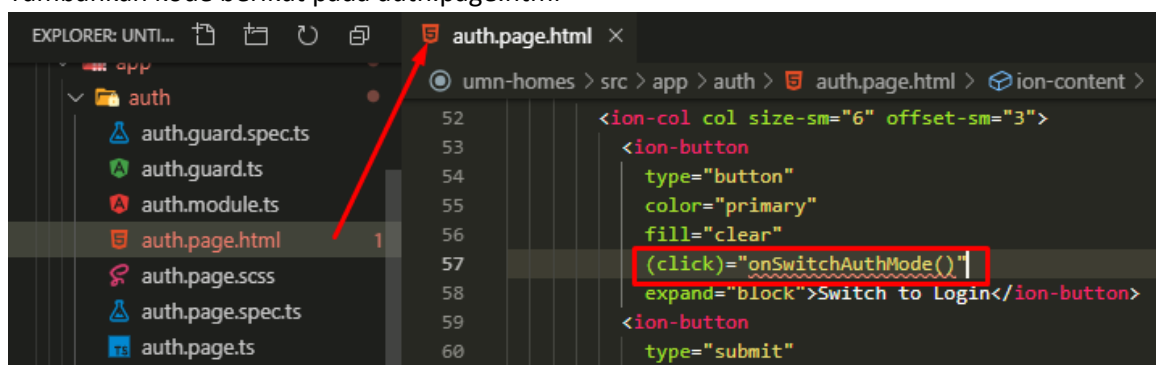
```
49 </ion-col>
50 </ion-row>
51 <ion-row>
52   <ion-col col size-sm="6" offset-sm="3">
53     <ion-button type="button" color="primary">
54       <ion-button
55         type="submit"
56         color="primary"
57         (click)="onLogin()"
58         [disabled]="!f.valid"
59         expand="block">Login</ion-button>
60   </ion-col>
61 </ion-row>
```

8. Lihat hasilnya di browser



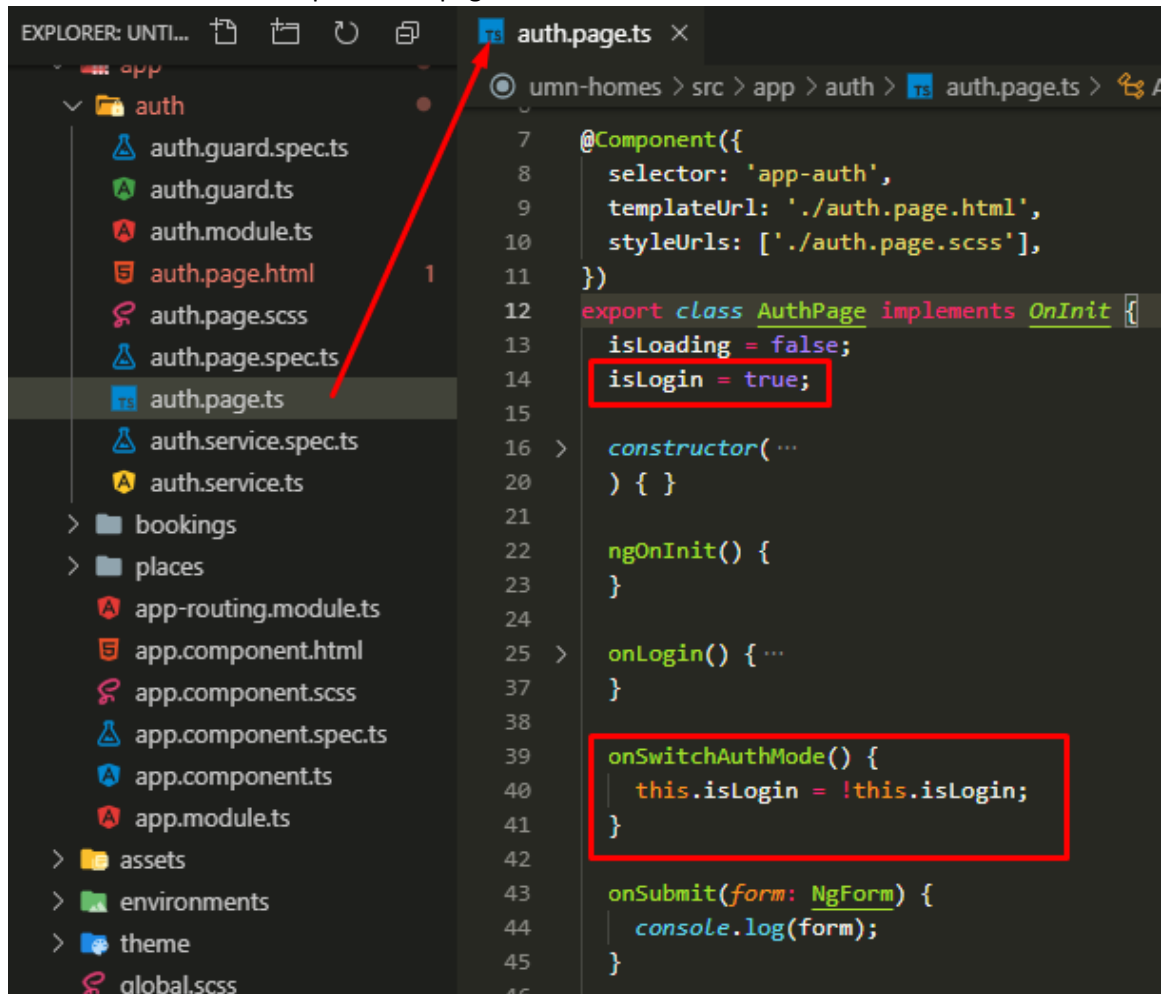
Switching Between Auth Modes

1. Tambahkan kode berikut pada auth.page.html



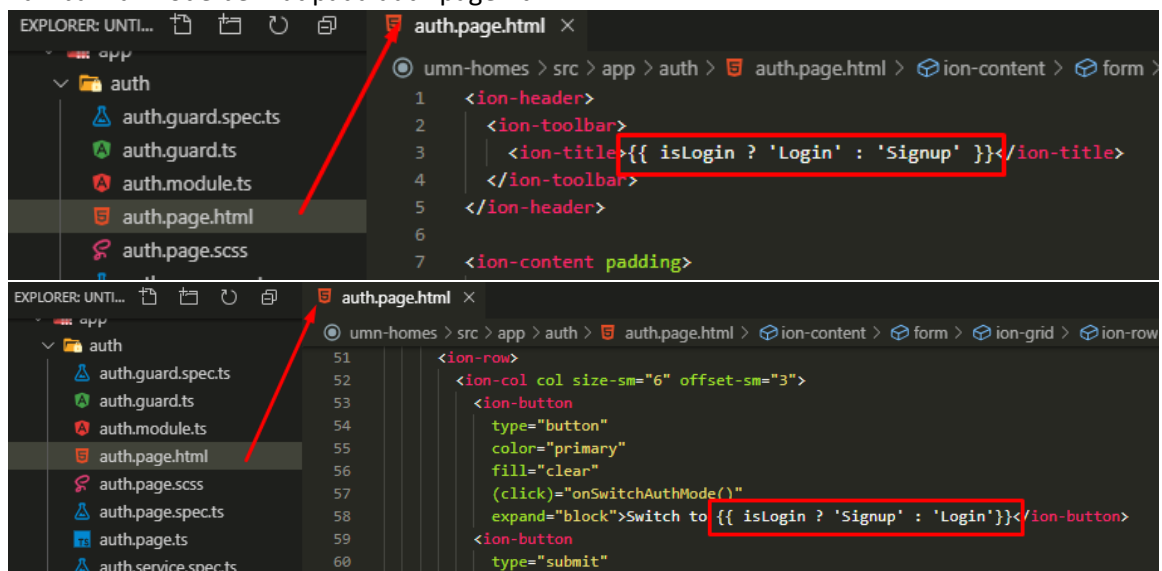
```
52 <ion-col col size-sm="6" offset-sm="3">
53   <ion-button
54     type="button"
55     color="primary"
56     fill="clear"
57     (click)="onSwitchAuthMode()"
58     expand="block">Switch to Login</ion-button>
59   <ion-button
60     type="submit"
```

2. Tambahkan kode berikut pada auth.page.ts



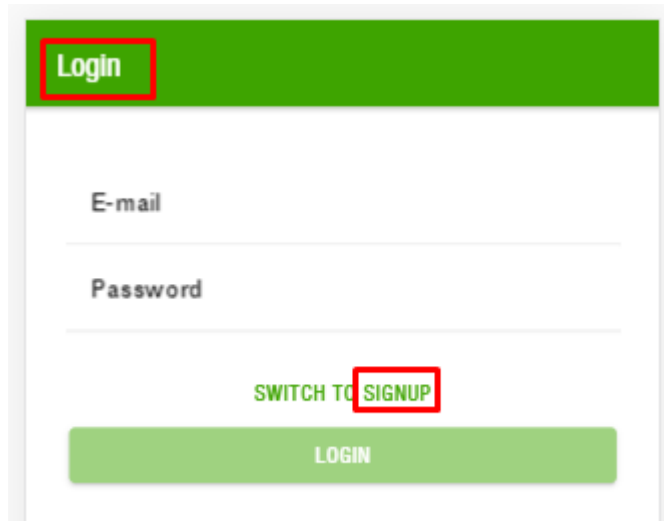
```
EXPLORER: UNTI...  auth.page.ts x
  umn-homes > src > app > auth > auth.page.ts >
7  @Component({
8    selector: 'app-auth',
9    templateUrl: './auth.page.html',
10   styleUrls: ['./auth.page.scss'],
11 })
12 export class AuthPage implements OnInit {
13   isLoading = false;
14   isLogin = true;
15
16   constructor( ...
17 ) { }
18
19   ngOnInit() {
20   }
21
22   onLogin() { ...
23   }
24
25   onSwitchAuthMode() {
26     this.isLogin = !this.isLogin;
27   }
28
29   onSubmit(form: NgForm) {
30     console.log(form);
31   }
32 }
```

3. Tambahkan kode berikut pada auth.page.html

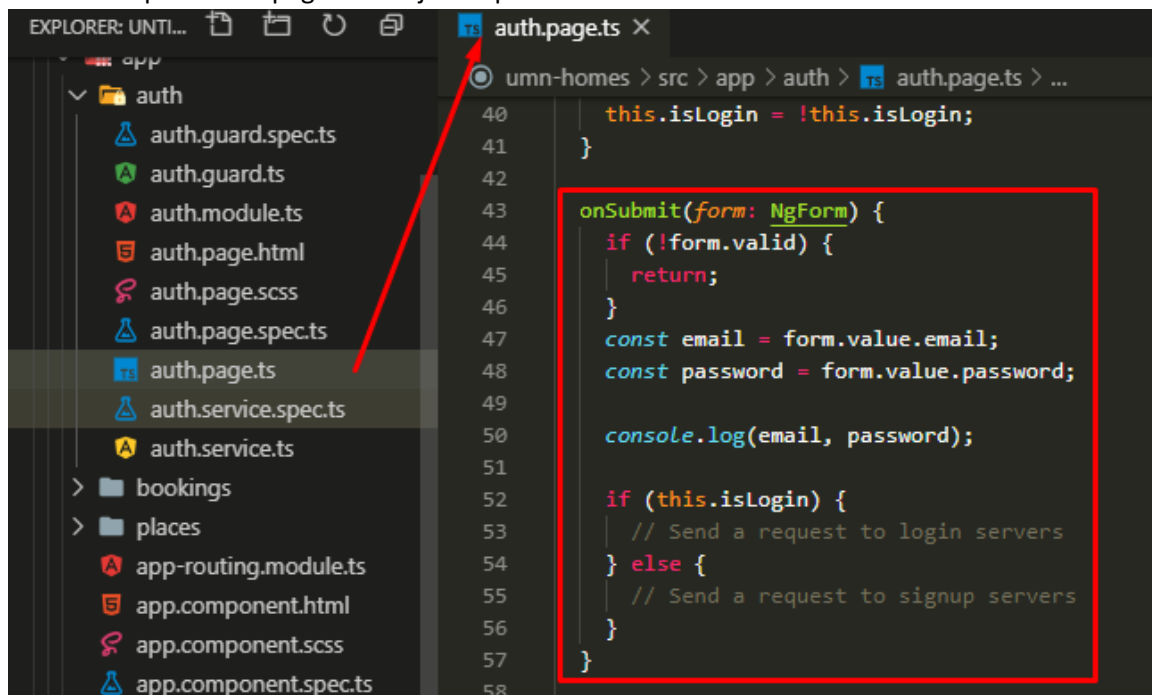


```
EXPLORER: UNTI...  auth.page.html x
  umn-homes > src > app > auth > auth.page.html > ion-content > form >
1  <ion-header>
2    <ion-toolbar>
3      <ion-title>{{ isLogin ? 'Login' : 'Signup' }}</ion-title>
4    </ion-toolbar>
5  </ion-header>
6
7  <ion-content padding>
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51  <ion-row>
52    <ion-col col size-sm="6" offset-sm="3">
53      <ion-button
54        type="button"
55        color="primary"
56        fill="clear"
57        (click)="onSwitchAuthMode()"
58        expand="block">Switch to {{ isLogin ? 'Signup' : 'Login'}}</ion-button>
59      <ion-button
60        type="submit"
61      >
```

4. Lihat hasilnya di browser

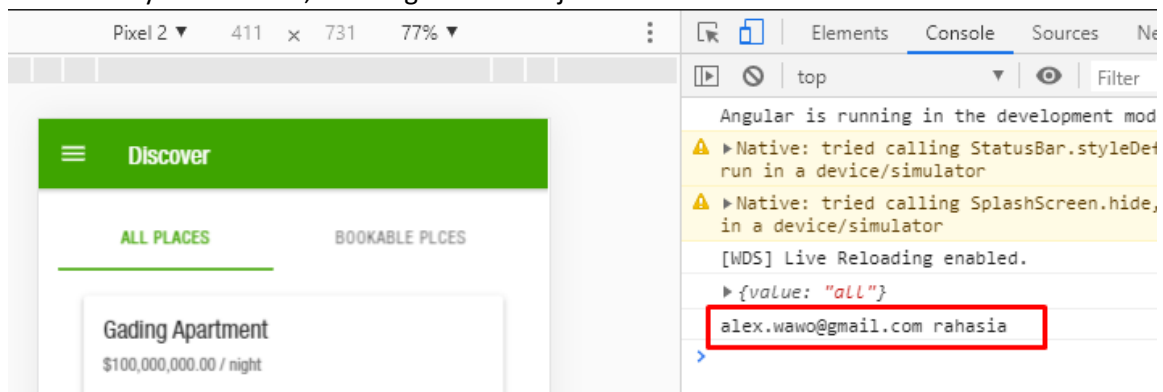


5. Ubah kode pada auth.page.ts menjadi seperti berikut:

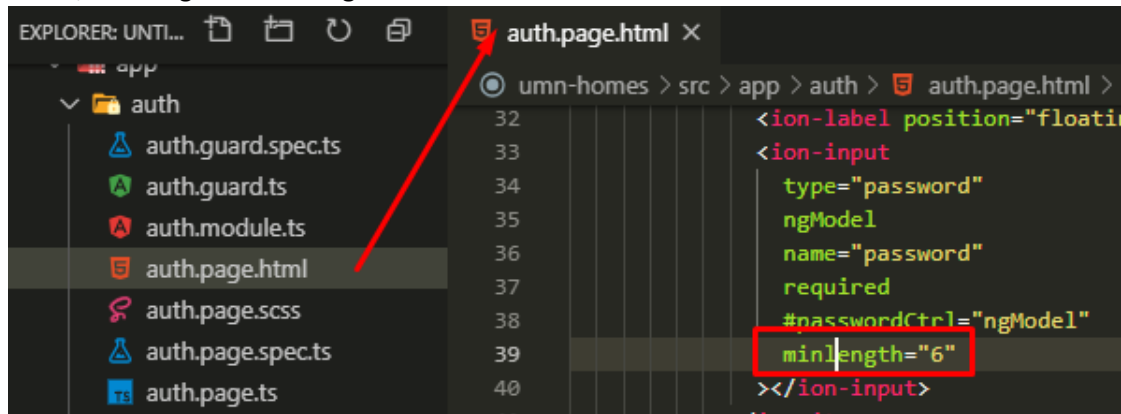


```
40  this.isLogin = !this.isLogin;
41  }
42
43  onSubmit(form: NgForm) {
44    if (!form.valid) {
45      return;
46    }
47    const email = form.value.email;
48    const password = form.value.password;
49
50    console.log(email, password);
51
52    if (this.isLogin) {
53      // Send a request to login servers
54    } else {
55      // Send a request to signup servers
56    }
57  }
58
```

6. Lihat hasilnya di browser, coba login dan lihat jendela console.



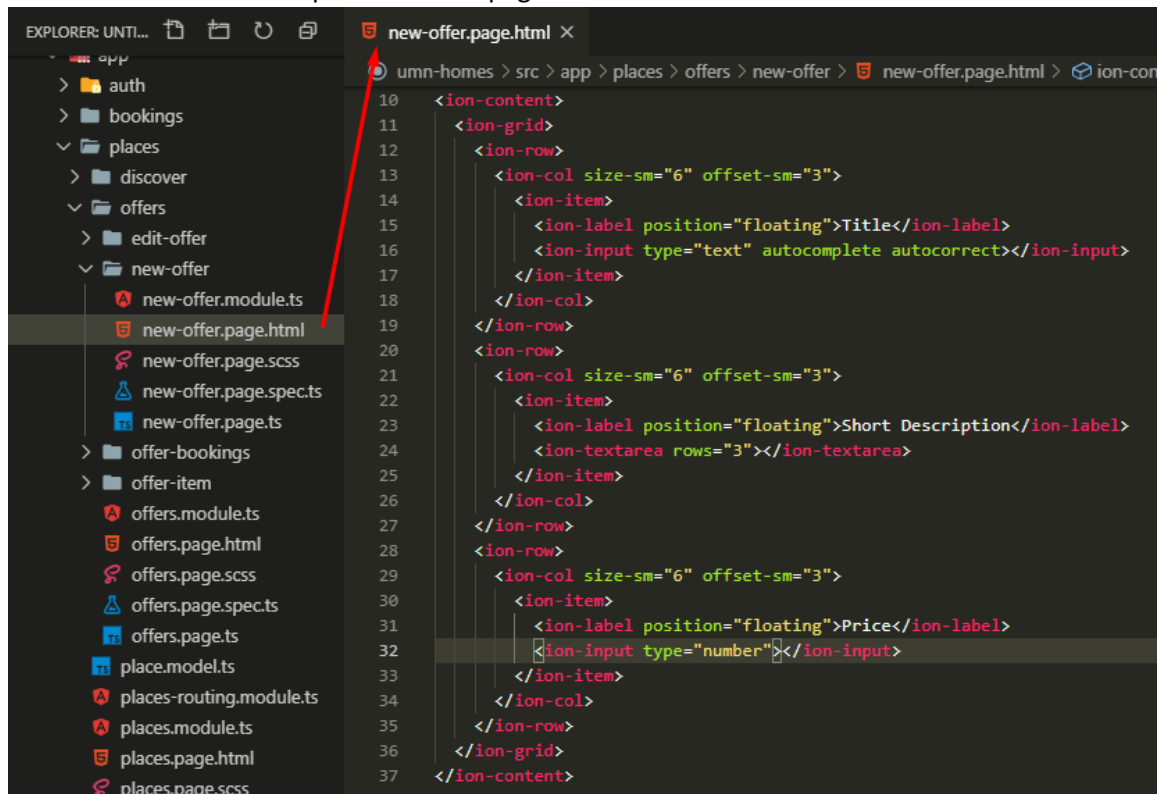
7. Revisi, minLength → minlength



```
EXPLORER: UNTI...  
  app  
    auth  
      auth.guard.spec.ts  
      auth.guard.ts  
      auth.module.ts  
      auth.page.html  
      auth.page.scss  
      auth.page.spec.ts  
      auth.page.ts  
      auth.page.html  
    umn-homes > src > app > auth > auth.page.html >  
    32 <ion-label position="floati  
    33 <ion-input  
    34   type="password"  
    35   ngModel  
    36   name="password"  
    37   required  
    38   #passwordCtrl="ngModel"  
    39   minlength="6"  
    40 >>/ion-input>
```

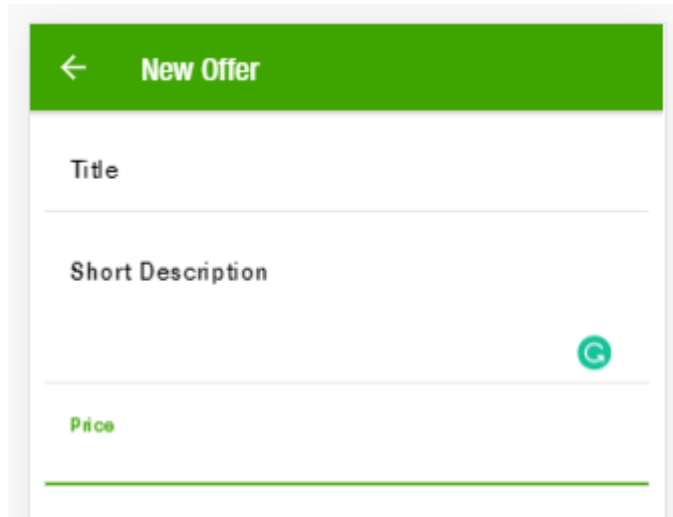
New Offer

1. Tambahkan kode berikut pada ew-offer.page.html



```
EXPLORER: UNTI...  
  app  
    auth  
    bookings  
    places  
      discover  
      offers  
        edit-offer  
        new-offer  
          new-offer.module.ts  
          new-offer.page.html  
          new-offer.page.scss  
          new-offer.page.spec.ts  
          new-offer.page.ts  
        offer-bookings  
        offer-item  
        offers.module.ts  
        offers.page.html  
        offers.page.scss  
        offers.page.spec.ts  
        offers.page.ts  
        place.model.ts  
        places-routing.module.ts  
        places.module.ts  
        places.page.html  
        places.page.scss  
    new-offer.page.html  
    umn-homes > src > app > places > offers > new-offer > new-offer.page.html > ion-con  
    10 <ion-content>  
    11 <ion-grid>  
    12 <ion-row>  
    13 <ion-col size-sm="6" offset-sm="3">  
    14 <ion-item>  
    15 <ion-label position="floating">Title</ion-label>  
    16 <ion-input type="text" autocomplete autocorrect></ion-input>  
    17 </ion-item>  
    18 </ion-col>  
    19 </ion-row>  
    20 <ion-row>  
    21 <ion-col size-sm="6" offset-sm="3">  
    22 <ion-item>  
    23 <ion-label position="floating">Short Description</ion-label>  
    24 <ion-textarea rows="3"></ion-textarea>  
    25 </ion-item>  
    26 </ion-col>  
    27 </ion-row>  
    28 <ion-row>  
    29 <ion-col size-sm="6" offset-sm="3">  
    30 <ion-item>  
    31 <ion-label position="floating">Price</ion-label>  
    32 <ion-input type="number"></ion-input>  
    33 </ion-item>  
    34 </ion-col>  
    35 </ion-row>  
    36 </ion-grid>  
    37 </ion-content>
```

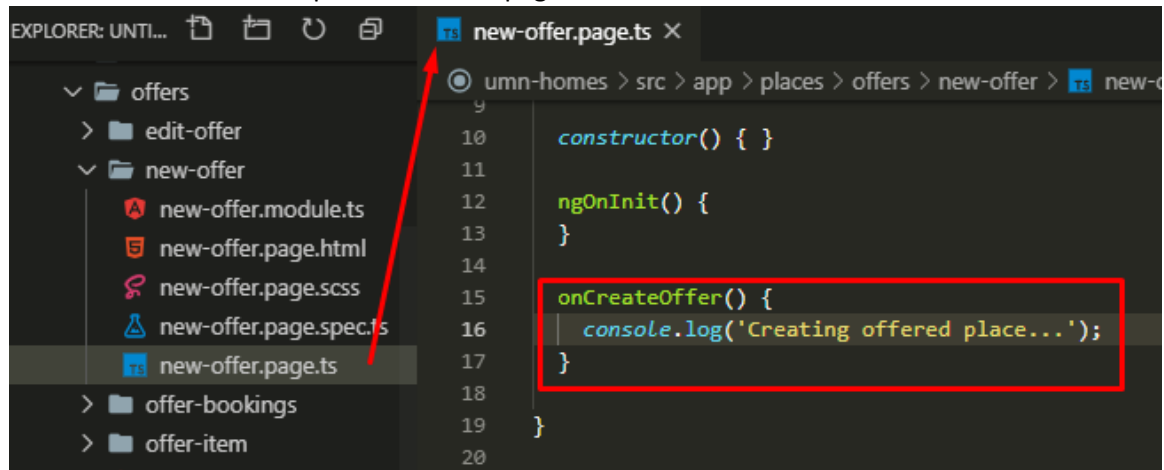

2. Lihat hasilnya di browser



3. Tambahkan kode berikut pada new-offer.page.html, dan lihat hasilnya di browser

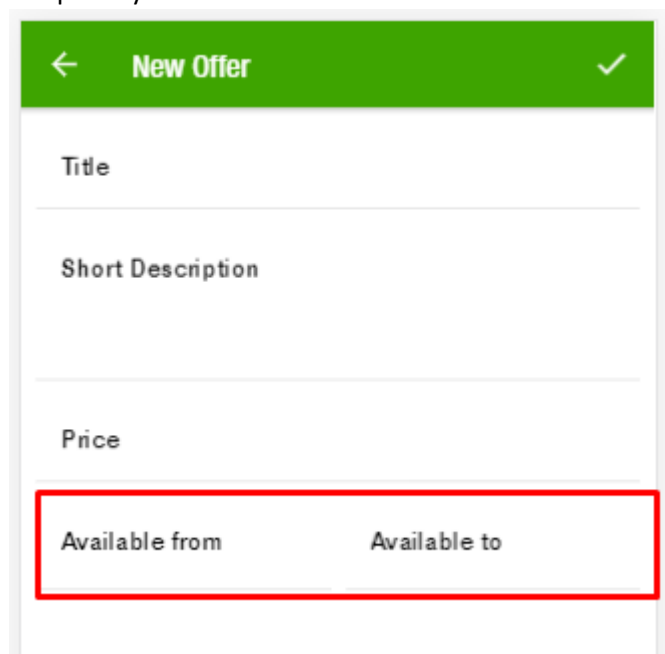
4. Tambahkan kode berikut pada new-offer.page.html

5. Tambahkan kode berikut pada new-offer.page.ts



```
EXPLORER: UNTI... new-offer.page.ts x
  umn-homes > src > app > places > offers > new-offer > new-offer.page.ts
  9
  10 constructor() { }
  11
  12 ngOnInit() {
  13 }
  14
  15 onCreateOffer() {
  16   console.log('Creating offered place...');
  17 }
  18
  19 }
  20
```

6. Lihat hasilnya di browser, perhatikan pada bagian tanggal available from-to, modifikasi sehingga tampilannya bersebelahan.



← New Offer ✓

Title

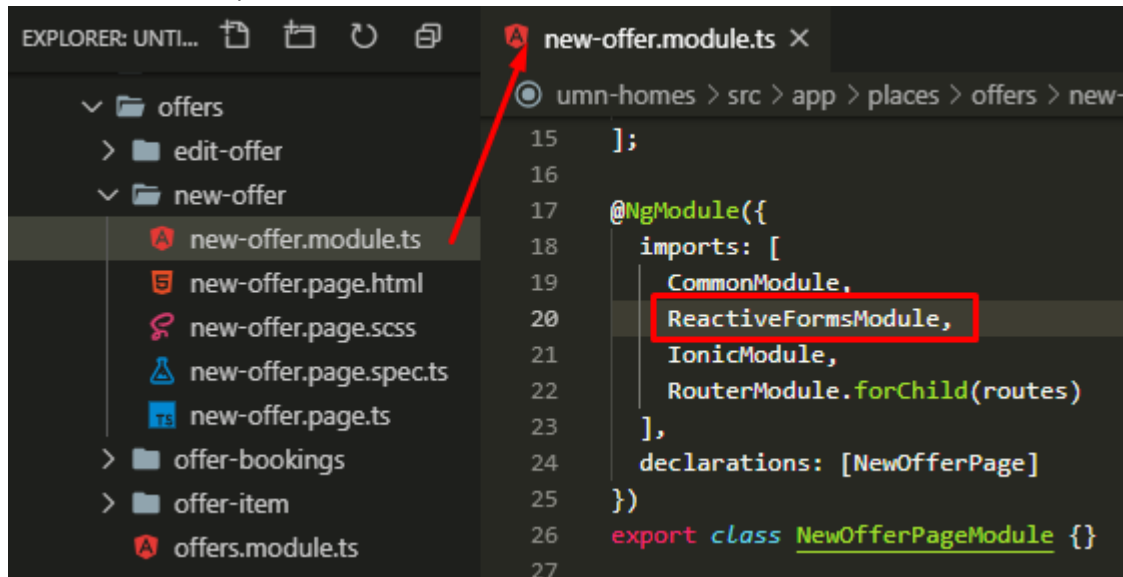
Short Description

Price

Available from Available to

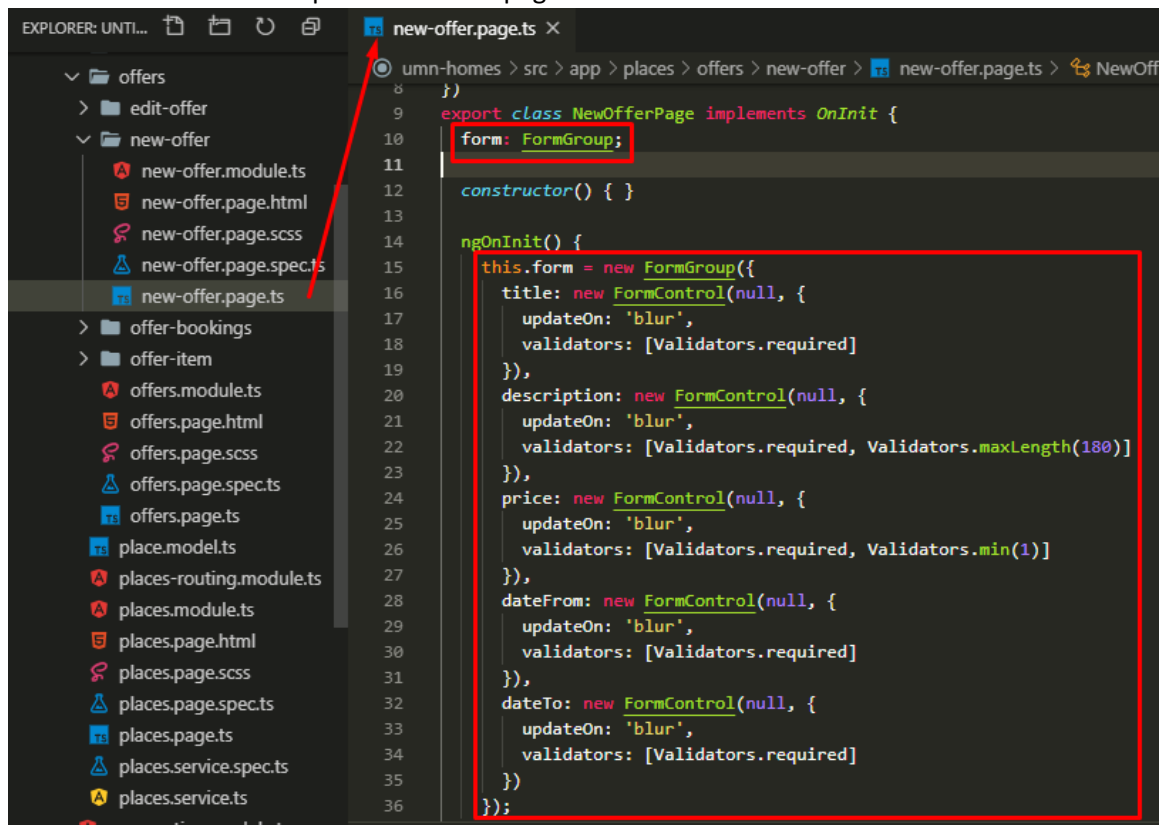
Reactive Form

1. Ubah kode berikut pada new-offer.module.ts



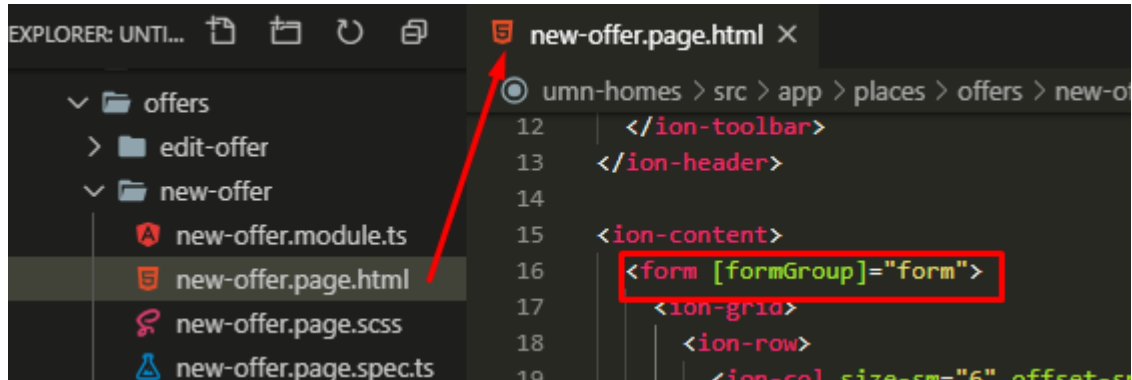
```
EXPLORER: UNTI... new-offer.module.ts X
  umn-homes > src > app > places > offers > new-offer
15 ];
16
17 @NgModule({
18   imports: [
19     CommonModule,
20     ReactiveFormsModule,
21     IonicModule,
22     RouterModule.forChild(routes)
23   ],
24   declarations: [NewOfferPage]
25 })
26 export class NewOfferPageModule {}
27
```

2. Tambahkan kode berikut pada new-offer.page.ts



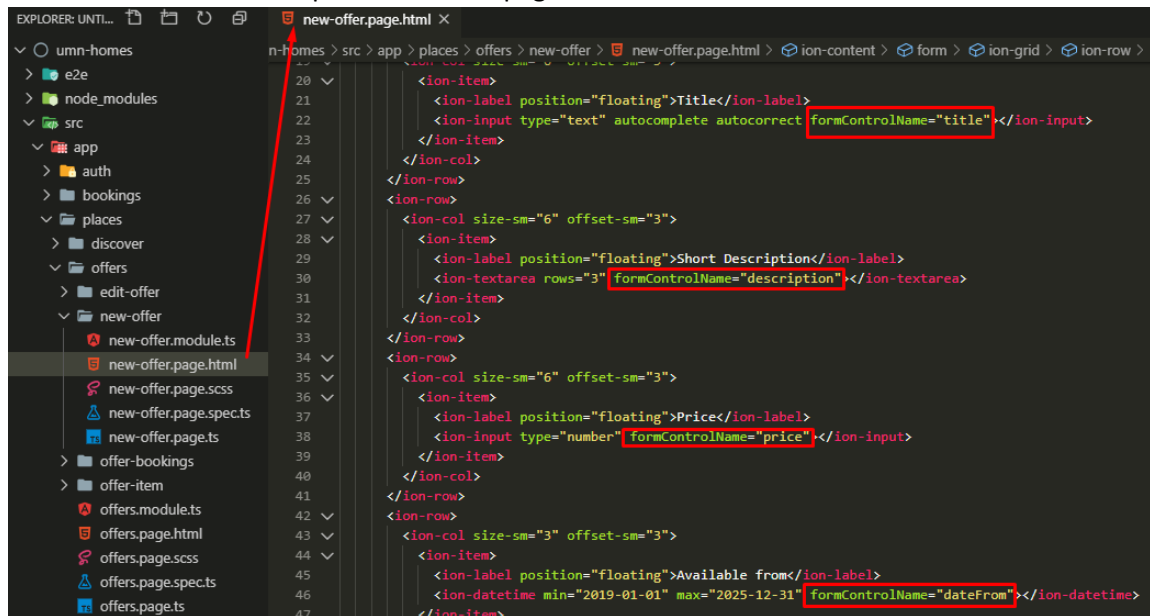
```
EXPLORER: UNTI... new-offer.page.ts X
  umn-homes > src > app > places > offers > new-offer > new-offer.page.ts > NewOff
8  })
9  export class NewOfferPage implements OnInit {
10    form: FormGroup;
11
12    constructor() { }
13
14    ngOnInit() {
15      this.form = new FormGroup({
16        title: new FormControl(null, {
17          updateOn: 'blur',
18          validators: [Validators.required]
19        }),
20        description: new FormControl(null, {
21          updateOn: 'blur',
22          validators: [Validators.required, Validators.maxLength(180)]
23        }),
24        price: new FormControl(null, {
25          updateOn: 'blur',
26          validators: [Validators.required, Validators.min(1)]
27        }),
28        dateFrom: new FormControl(null, {
29          updateOn: 'blur',
30          validators: [Validators.required]
31        }),
32        dateTo: new FormControl(null, {
33          updateOn: 'blur',
34          validators: [Validators.required]
35        })
36      });
37    }
38  }
39}
```

3. Tambahkan kode berikut pada ew-offer.page.html (jangan lupa tag tutupnya)



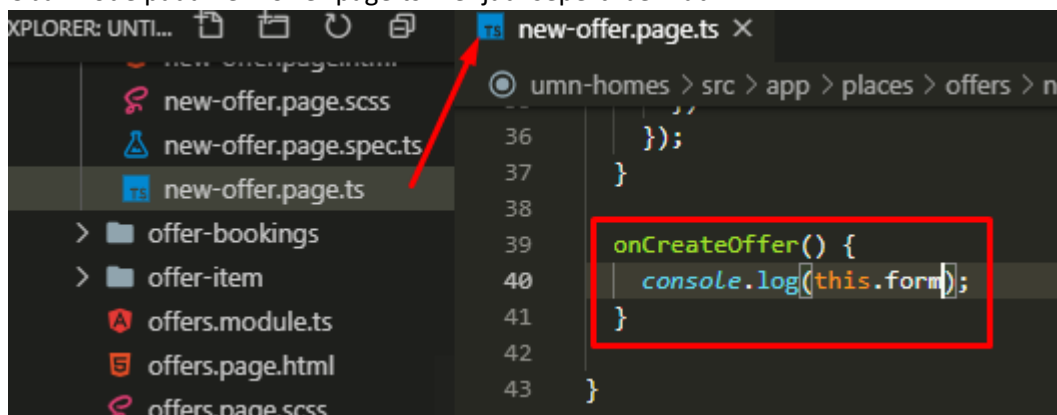
```
EXPLORER: UNTI... new-offer.page.html X
  offers
    edit-offer
    new-offer
      new-offer.module.ts
      new-offer.page.html
      new-offer.page.scss
      new-offer.page.spec.ts
  umn-homes > src > app > places > offers > new-offer
    12 </ion-toolbar>
    13 </ion-header>
    14
    15 <ion-content>
    16 <form [formGroup]="form">
    17   <ion-grid>
    18     <ion-row>
    19       <ion-col size-sm="6" offset-sm="3">
```

4. Tambahkan kode berikut pada new-offer.page.html



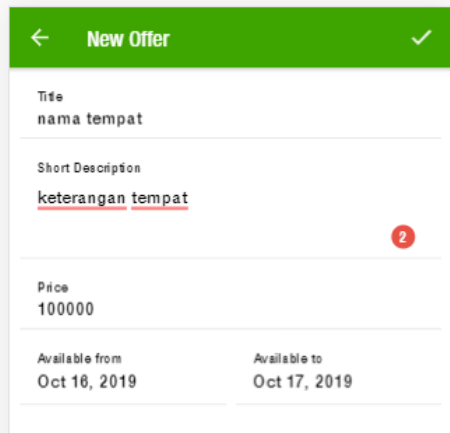
```
EXPLORER: UNTI... new-offer.page.html X
  umn-homes
    e2e
    node_modules
    src
      app
        auth
        bookings
        places
        discover
        offers
        edit-offer
        new-offer
          new-offer.module.ts
          new-offer.page.html
          new-offer.page.scss
          new-offer.page.spec.ts
          new-offer.page.ts
        offer-bookings
        offer-item
        offers.module.ts
        offers.page.html
        offers.page.scss
        offers.page.spec.ts
        offers.page.ts
  n-homes > src > app > places > offers > new-offer > new-offer.page.html > ion-content > form > ion-grid > ion-row > ion-col
    20 <ion-item>
    21   <ion-label position="floating">Title</ion-label>
    22   <ion-input type="text" autocomplete autocorrect formControlName="title"></ion-input>
    23 </ion-item>
    24 </ion-col>
    25 </ion-row>
    26 <ion-row>
    27   <ion-col size-sm="6" offset-sm="3">
    28     <ion-item>
    29       <ion-label position="floating">Short Descriptions</ion-label>
    30       <ion-textarea rows="3" formControlName="description"></ion-textarea>
    31     </ion-item>
    32   </ion-col>
    33 </ion-row>
    34 <ion-row>
    35   <ion-col size-sm="6" offset-sm="3">
    36     <ion-item>
    37       <ion-label position="floating">Price</ion-label>
    38       <ion-input type="number" formControlName="price"></ion-input>
    39     </ion-item>
    40   </ion-col>
    41 </ion-row>
    42 <ion-row>
    43   <ion-col size-sm="3" offset-sm="3">
    44     <ion-item>
    45       <ion-label position="floating">Available from</ion-label>
    46       <ion-datetime min="2019-01-01" max="2025-12-31" formControlName="dateFrom"></ion-datetime>
    47     </ion-item>
```

5. Ubah kode pada new-offer.page.ts menjadi seperti berikut



```
EXPLORER: UNTI... new-offer.page.ts X
  new-offer.page.html
  new-offer.page.scss
  new-offer.page.spec.ts
  new-offer.page.ts
  offer-bookings
  offer-item
  offers.module.ts
  offers.page.html
  offers.page.scss
  umn-homes > src > app > places > offers > new-offer
    36 });
    37 }
    38
    39 onCreateOffer() {
    40   console.log(this.form);
    41 }
    42
    43 }
```

6. Coba di browser



```

▼ FormGroup {validator: null, asyncValidator: null, pristine: false, touched: true, status: "VALID", value: {
  ▶ controls: {title: FormControl, description: FormControl, errors: null, price: FormControl, status: "VALID"}
  ▶ statusChanges: EventEmitter {_isScalar: false, observeValue: {value: "VALID", error: null}}
  ▶ touched: true
  ▶ validator: null
  ▶ value: {
    ▶ dateFrom: "2019-10-16T04:51:14.599+07:00"
    ▶ dateTo: "2019-10-17T04:51:14.600+07:00"
    ▶ description: "keterangan tempat"
    ▶ price: 100000
    ▶ title: "nama tempat"
  }
  ▶ __proto__: Object
  ▶ valueChanges: EventEmitter {_isScalar: false, observeValue: {value: "VALID", error: null}}
  ▶ _onCollectionChange: () => this._updateDomValue()
  ▶ onDisabledChange: []
}
        
```

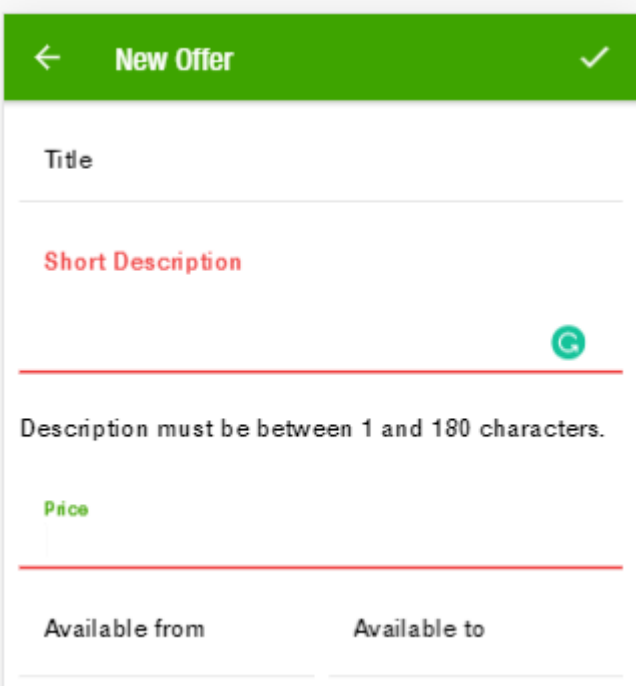
7. Tambahkan kode berikut pada new-offer.page.html



```

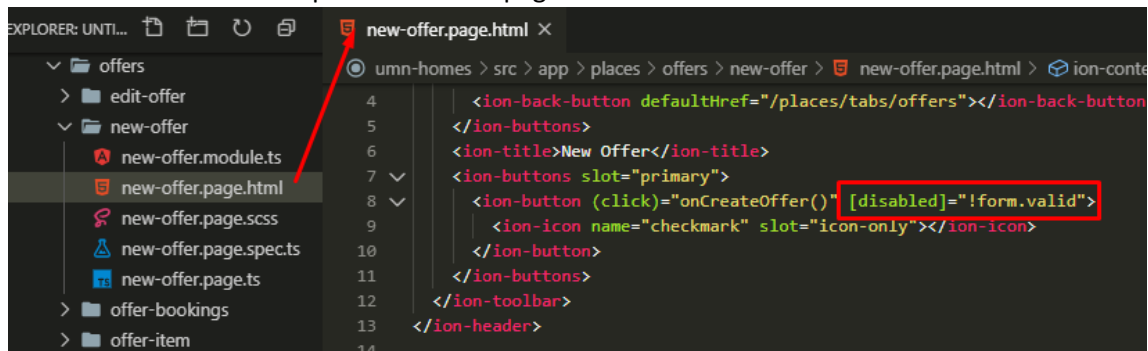
26 <ion-row>
27   <ion-col size-sm="6" offset-sm="3">
28     <ion-item>
29       <ion-label position="floating">Short Description</ion-label>
30       <ion-textarea rows="3" formControlName="description"></ion-textarea>
31     </ion-item>
32   </ion-col>
33 </ion-row>
34 <ion-row *ngIf="!form.get('description').valid && form.get('description').touched">
35   <ion-col size-sm="6" offset-sm="3">
36     <p>Description must be between 1 and 180 characters.</p>
37   </ion-col>
38 </ion-row>
39 <ion-row>
40   <ion-col size-sm="6" offset-sm="3">
        
```

8. Lihat hasilnya di browser



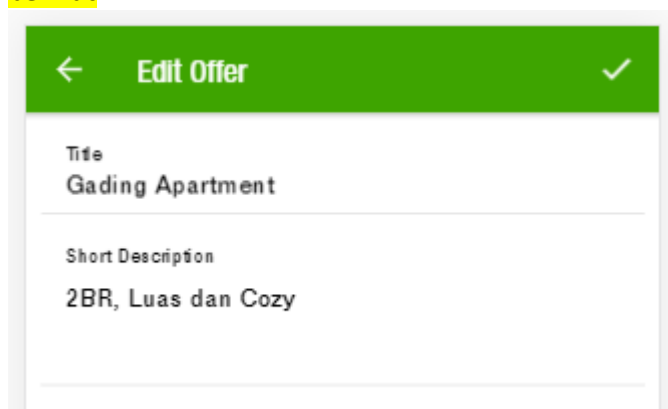
9. Tambahkan error message untuk field yang lainnya.

10. Tambahkan kode berikut pada new-offer.page.html

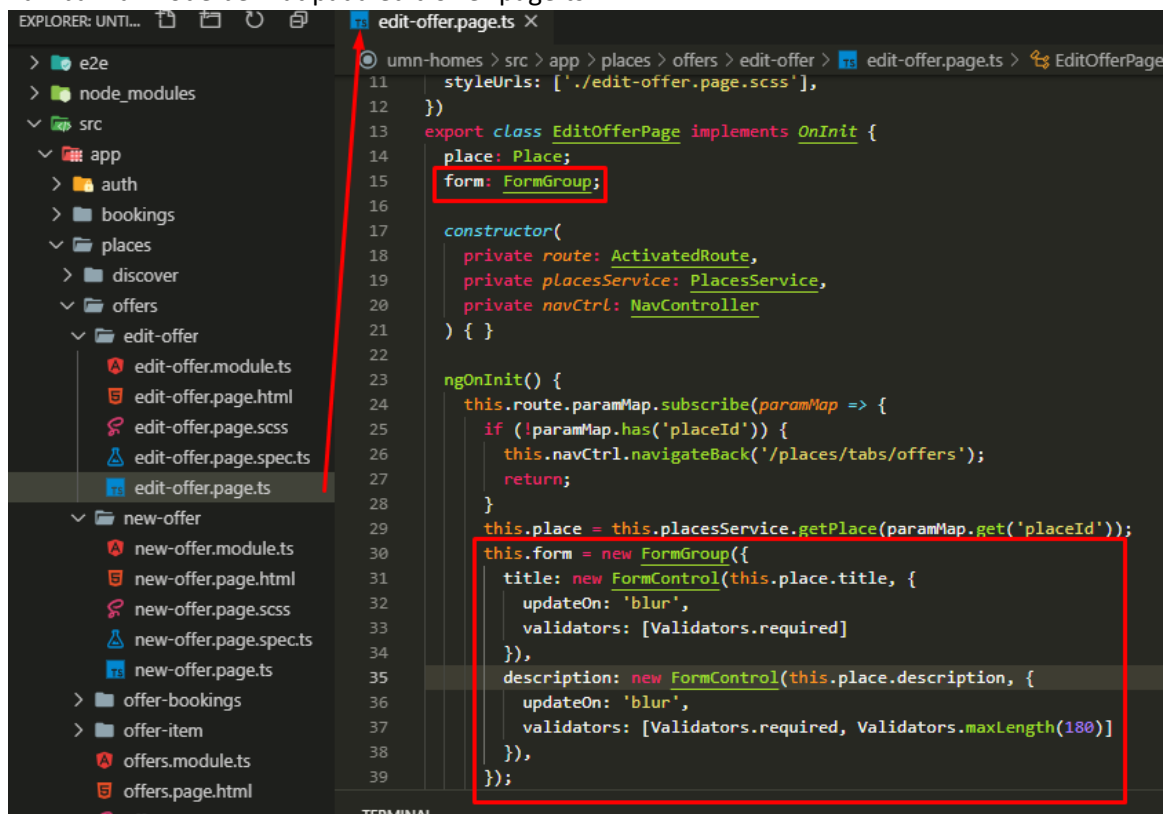


```
4 <ion-back-button defaultHref="/places/tabs/offers"></ion-back-button>
5 </ion-buttons>
6 <ion-title>New Offer</ion-title>
7 <ion-buttons slot="primary">
8 <ion-button (click)="onCreateOffer()" [disabled]="!form.valid">
9 <ion-icon name="checkmark" slot="icon-only"></ion-icon>
10 </ion-button>
11 </ion-buttons>
12 </ion-toolbar>
13 </ion-header>
14
```

11. Tambahkan kode pada edit-offer.page.html sehingga menghasilkan tampilan form seperti berikut



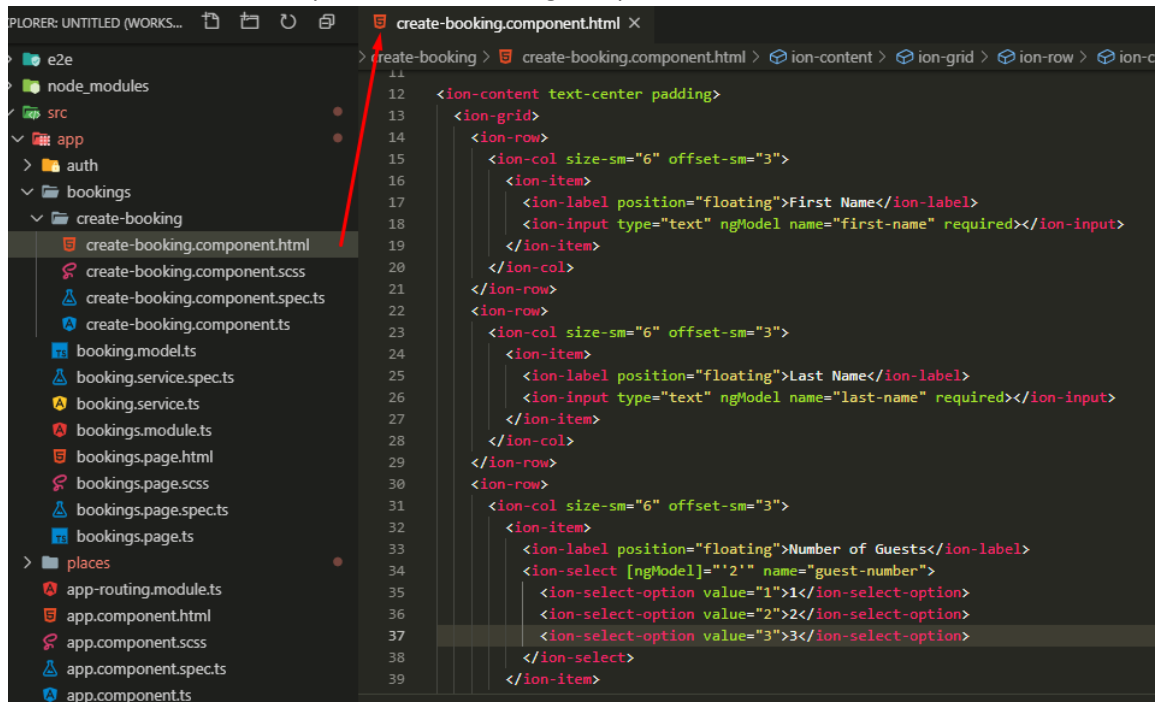
12. Tambahkan kode berikut pada edit-offer.page.ts



```
11 styleUrls: ['./edit-offer.page.scss'],
12 })
13 export class EditOfferPage implements OnInit {
14   place: Place;
15   form: FormGroup;
16
17   constructor(
18     private route: ActivatedRoute,
19     private placesService: PlacesService,
20     private navCtrl: NavController
21   ) {}
22
23   ngOnInit() {
24     this.route.paramMap.subscribe(paramMap => {
25       if (!paramMap.has('placeId')) {
26         this.navCtrl.navigateBack('/places/tabs/offers');
27         return;
28       }
29       this.place = this.placesService.getPlace(paramMap.get('placeId'));
30       this.form = new FormGroup({
31         title: new FormControl(this.place.title, {
32           updateOn: 'blur',
33           validators: [Validators.required]
34         }),
35         description: new FormControl(this.place.description, {
36           updateOn: 'blur',
37           validators: [Validators.required, Validators.maxLength(180)]
38         }),
39       });
40     });
41   }
42 }
```

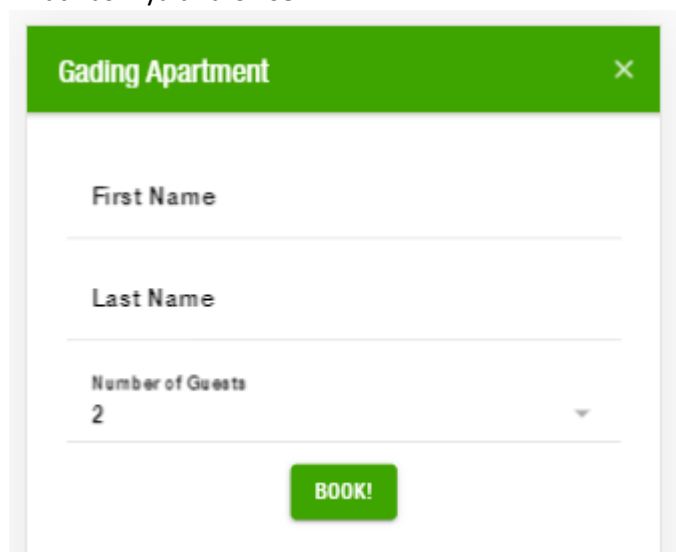
Booking Form

1. Tambahkan kode berikut pada create-booking.component.html

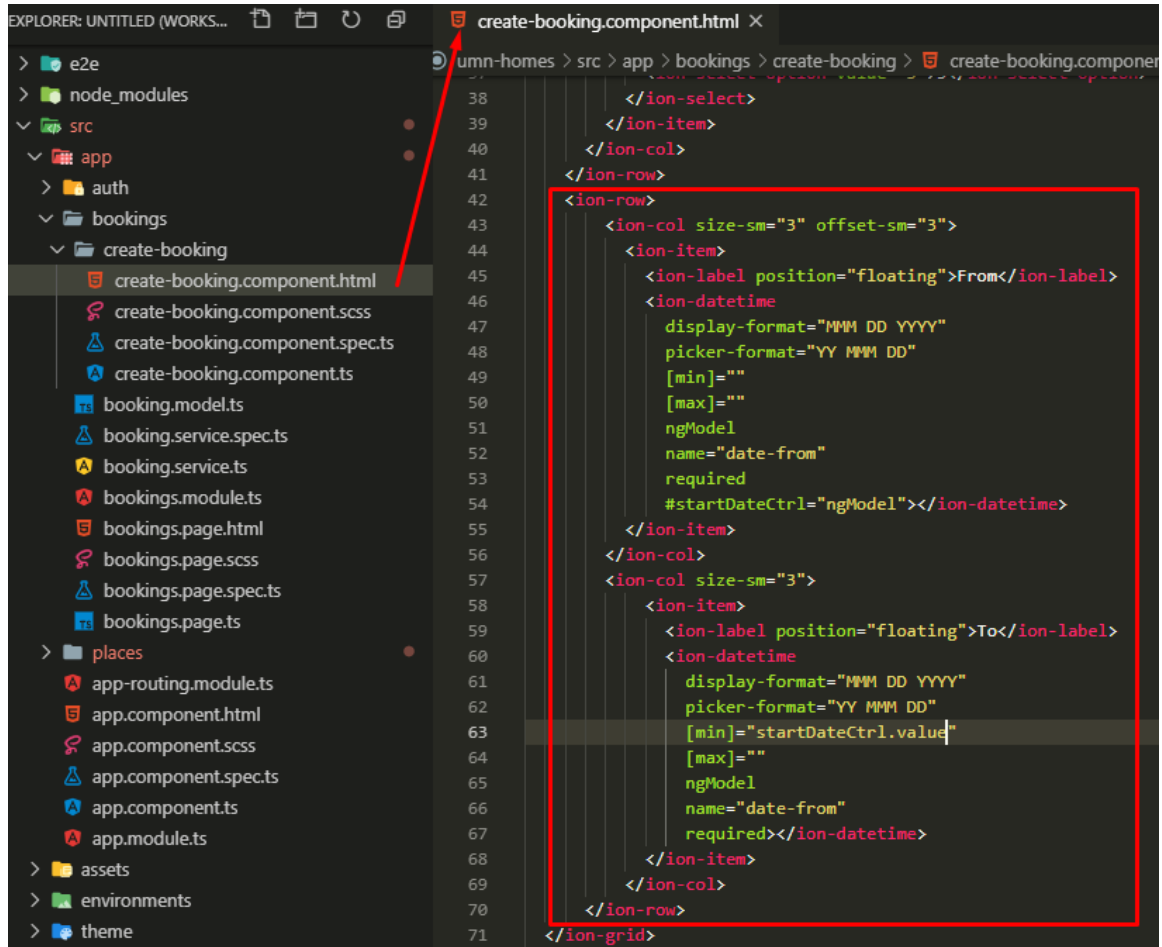


```
11 <!-- First Name -->
12 <ion-content text-center padding>
13 <ion-grid>
14 <ion-row>
15 <ion-col size-sm="6" offset-sm="3">
16 <ion-item>
17 <ion-label position="floating">First Name</ion-label>
18 <ion-input type="text" ngModel name="first-name" required></ion-input>
19 </ion-item>
20 </ion-col>
21 </ion-row>
22 <ion-row>
23 <ion-col size-sm="6" offset-sm="3">
24 <ion-item>
25 <ion-label position="floating">Last Name</ion-label>
26 <ion-input type="text" ngModel name="last-name" required></ion-input>
27 </ion-item>
28 </ion-col>
29 </ion-row>
30 <ion-row>
31 <ion-col size-sm="6" offset-sm="3">
32 <ion-item>
33 <ion-label position="floating">Number of Guests</ion-label>
34 <ion-select [ngModel]="2" name="guest-number">
35 <ion-select-option value="1">1</ion-select-option>
36 <ion-select-option value="2">2</ion-select-option>
37 <ion-select-option value="3">3</ion-select-option>
38 </ion-select>
39 </ion-item>
```

2. Lihat hasilnya di browser

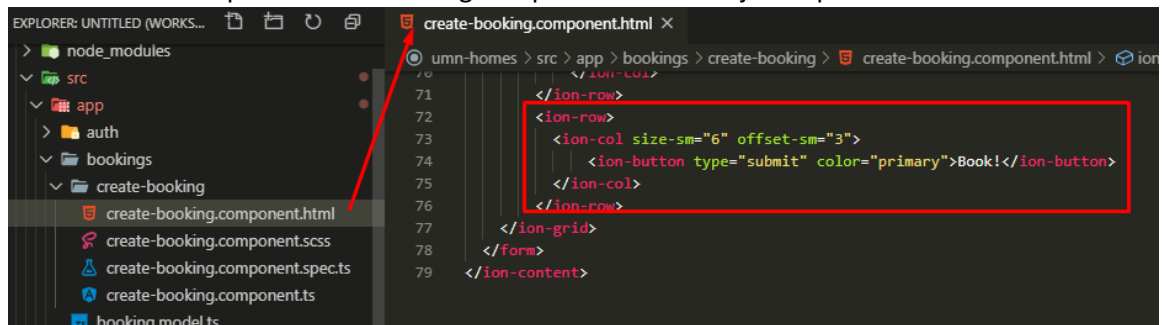


3. Tambahkan kode berikut pada create-booking.component.html



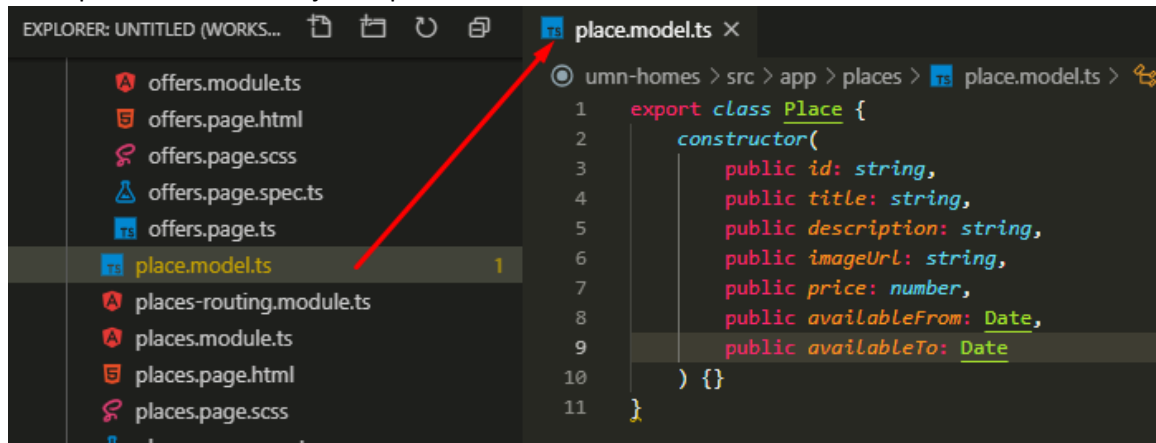
```
38      </ion-select>
39    </ion-item>
40  </ion-col>
41 </ion-row>
42 <ion-row>
43   <ion-col size-sm="3" offset-sm="3">
44     <ion-item>
45       <ion-label position="floating">From</ion-label>
46       <ion-datetime
47         display-format="MMM DD YYYY"
48         picker-format="YY MMM DD"
49         [min]="<
50         [max]="<
51         ngModel
52         name="date-from"
53         required
54         #startDateCtrl="ngModel"></ion-datetime>
55     </ion-item>
56   </ion-col>
57   <ion-col size-sm="3">
58     <ion-item>
59       <ion-label position="floating">To</ion-label>
60       <ion-datetime
61         display-format="MMM DD YYYY"
62         picker-format="YY MMM DD"
63         [min]="startDateCtrl.value"
64         [max]="<
65         ngModel
66         name="date-from"
67         required></ion-datetime>
68     </ion-item>
69   </ion-col>
70 </ion-row>
71 </ion-grid>
```

4. Modifikasi button pada create-booking.component.html menjadi seperti berikut



```
70 </ion-col>
71 </ion-row>
72 <ion-row>
73   <ion-col size-sm="6" offset-sm="3">
74     <ion-button type="submit" color="primary">Book!</ion-button>
75   </ion-col>
76 </ion-row>
77 </ion-grid>
78 </form>
79 </ion-content>
```

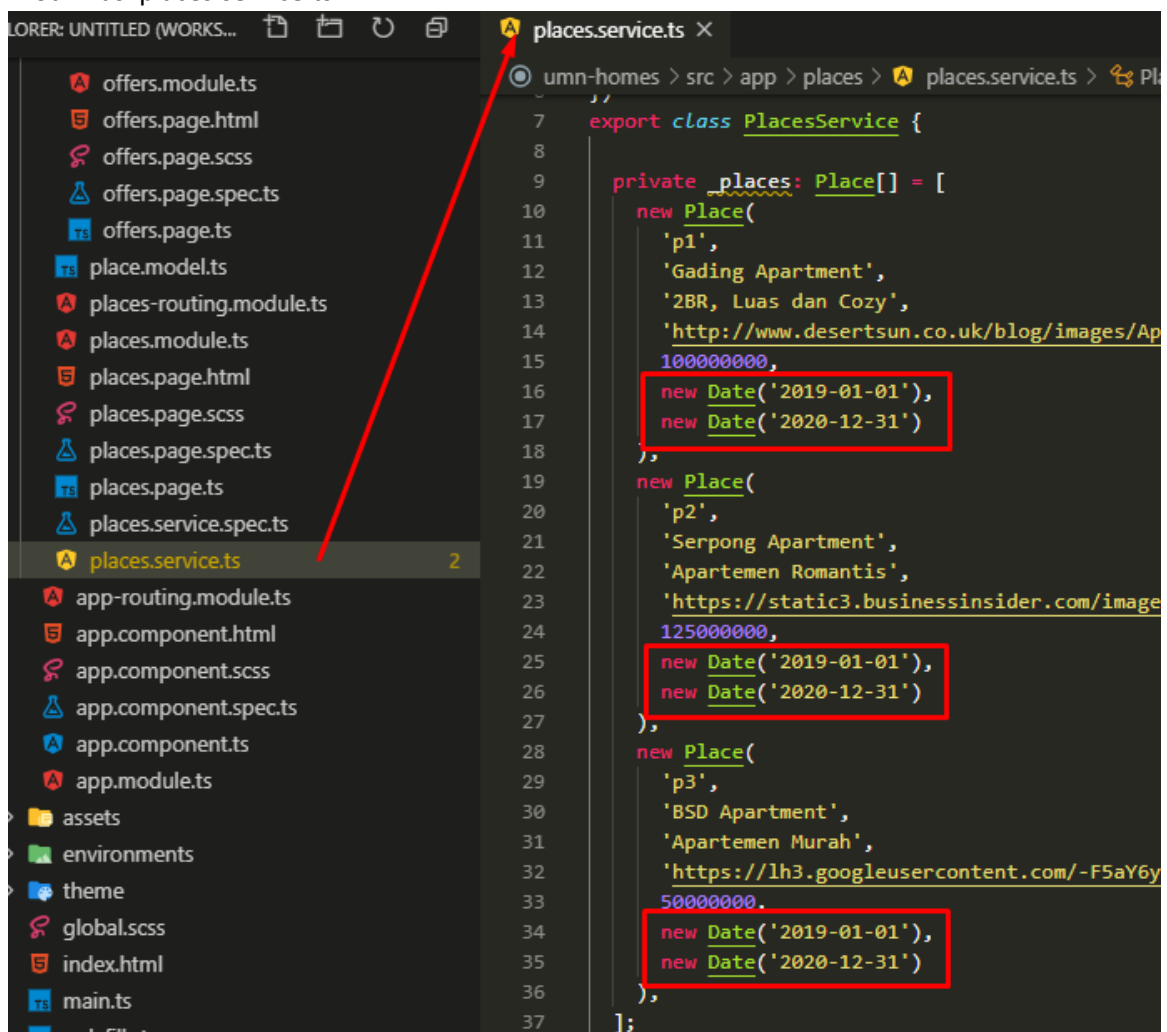

5. Ubah place.model.ts menjadi seperti berikut



```
EXPLOSER: UNTITLED (WORKS... place.model.ts X
  offers.module.ts
  offers.page.html
  offers.page.scss
  offers.page.spec.ts
  offers.page.ts
  place.model.ts 1
  places-routing.module.ts
  places.module.ts
  places.page.html
  places.page.scss
  places.page.spec.ts

umn-homes > src > app > places > place.model.ts >
1  export class Place {
2      constructor(
3          public id: string,
4          public title: string,
5          public description: string,
6          public imageUrl: string,
7          public price: number,
8          public availableFrom: Date,
9          public availableTo: Date
10     ) {}
11 }
```

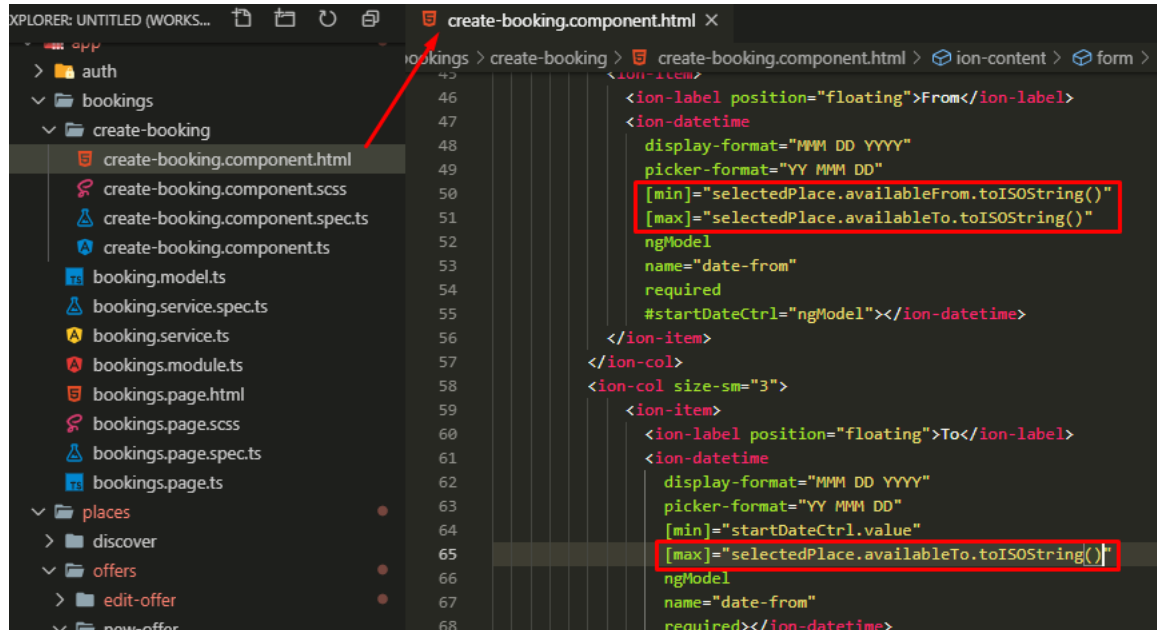
6. Modifikasi places.service.ts



```
EXPLOSER: UNTITLED (WORKS... places.service.ts X
  offers.module.ts
  offers.page.html
  offers.page.scss
  offers.page.spec.ts
  offers.page.ts
  place.model.ts
  places-routing.module.ts
  places.module.ts
  places.page.html
  places.page.scss
  places.page.spec.ts
  places.page.ts
  places.service.spec.ts
  places.service.ts 2
  app-routing.module.ts
  app.component.html
  app.component.scss
  app.component.spec.ts
  app.component.ts
  app.module.ts
  assets
  environments
  theme
  global.scss
  index.html
  main.ts
  polyfills.ts

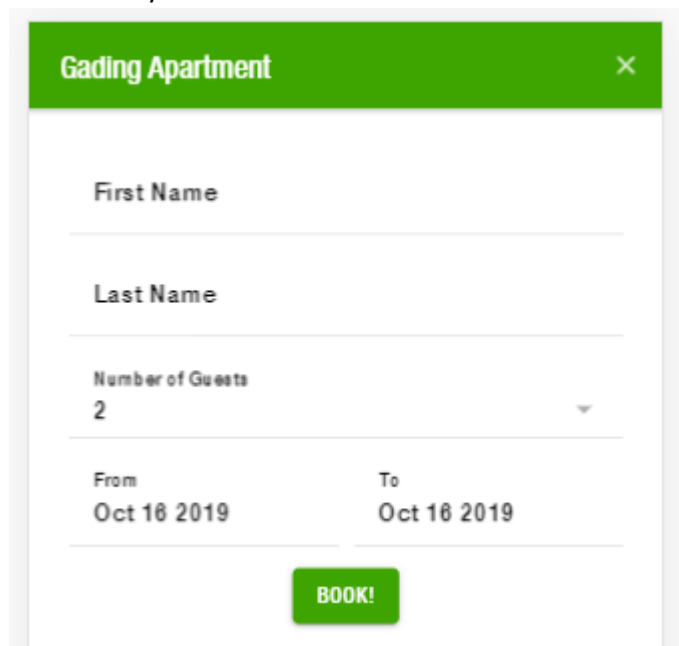
umn-homes > src > app > places > places.service.ts >
7  export class PlacesService {
8
9      private _places: Place[] = [
10         new Place(
11             'p1',
12             'Gading Apartment',
13             '2BR, Luas dan Cozy',
14             'http://www.desertsun.co.uk/blog/images/Ap
15             100000000,
16             new Date('2019-01-01'),
17             new Date('2020-12-31')
18         ),
19         new Place(
20             'p2',
21             'Serpong Apartment',
22             'Apartemen Romantis',
23             'https://static3.businessinsider.com/image
24             125000000,
25             new Date('2019-01-01'),
26             new Date('2020-12-31')
27         ),
28         new Place(
29             'p3',
30             'BSD Apartment',
31             'Apartemen Murah',
32             'https://lh3.googleusercontent.com/-F5aY6y
33             50000000,
34             new Date('2019-01-01'),
35             new Date('2020-12-31')
36         ),
37     ];
38 }
```

7. Tambahkan kode berikut pada create-booking.component.ts

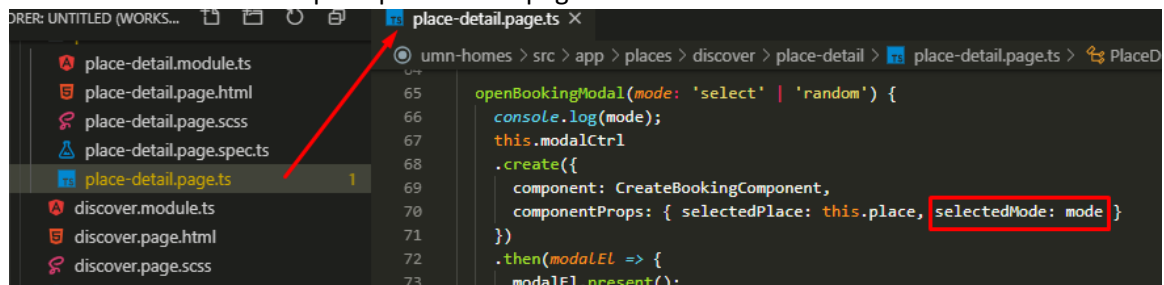


```
46 <ion-label position="floating">From</ion-label>
47 <ion-datetime
48   display-format="MMM DD YYYY"
49   picker-format="YY MMM DD"
50   [min]="selectedPlace.availableFrom.toISOString()"
51   [max]="selectedPlace.availableTo.toISOString()"
52   ngModel
53   name="date-from"
54   required
55   #startDateCtrl="ngModel"></ion-datetime>
56 </ion-item>
57 </ion-col>
58 <ion-col size-sm="3">
59   <ion-item>
60     <ion-label position="floating">To</ion-label>
61     <ion-datetime
62       display-format="MMM DD YYYY"
63       picker-format="YY MMM DD"
64       [min]="startDateCtrl.value"
65       [max]="selectedPlace.availableTo.toISOString()"
66       ngModel
67       name="date-from"
68       required></ion-datetime>
```

8. Coba hasilnya di browser

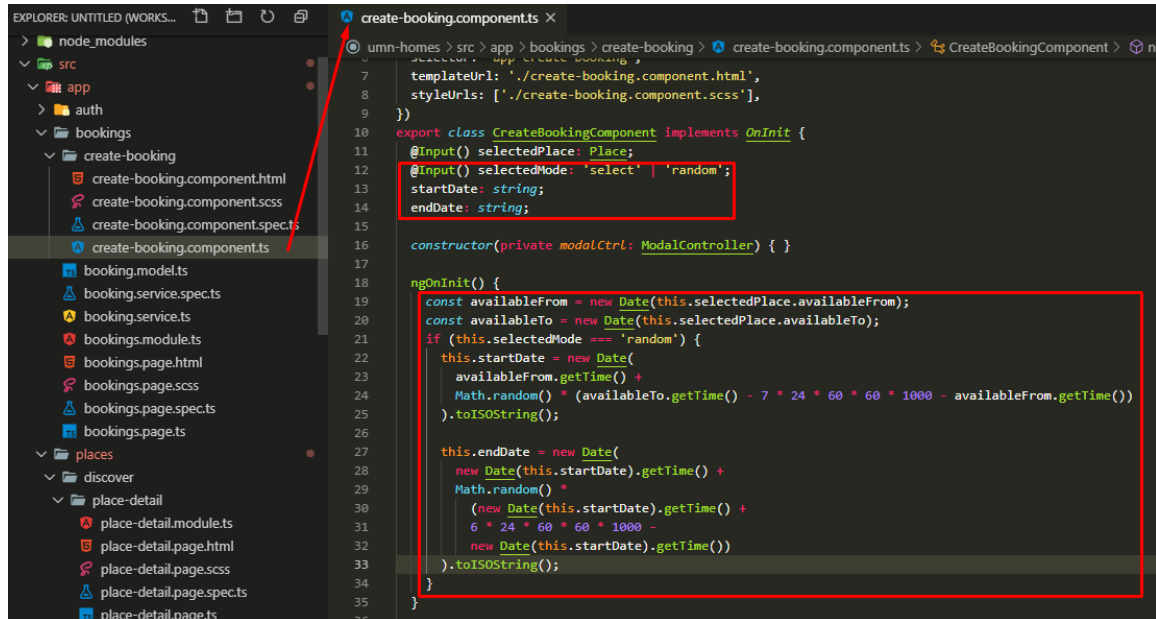


9. Tambahkan kode berikut pada place-detail.page.ts



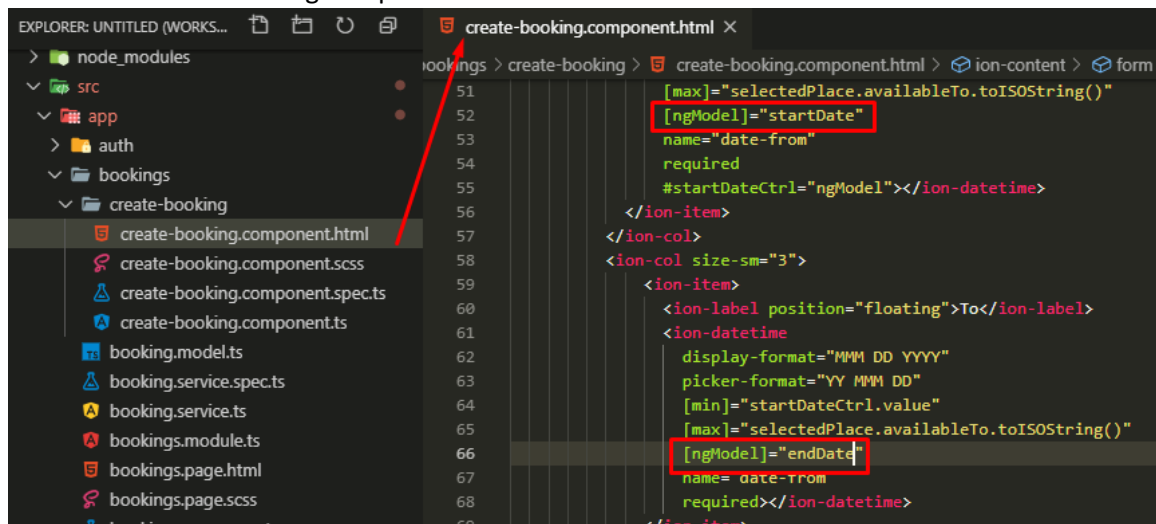
```
65 openBookingModal(mode: 'select' | 'random') {
66   console.log(mode);
67   this.modalCtrl
68     .create({
69     component: CreateBookingComponent,
70     componentProps: { selectedPlace: this.place, selectedMode: mode }
71   })
72   .then(modalEl => {
73     modalEl.present();
```

10. Tambahkan kode berikut pada create-booking.component.ts



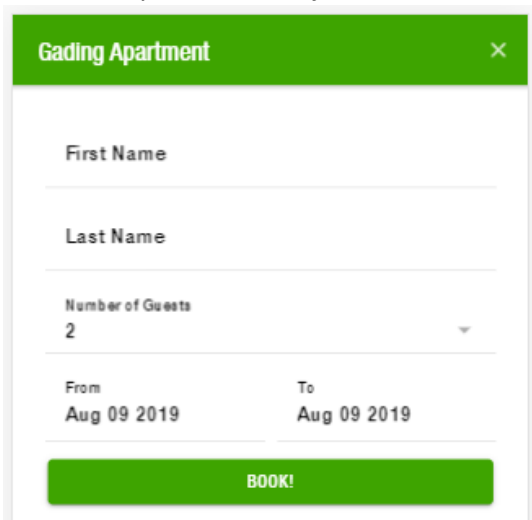
```
7      templateUrl: './create-booking.component.html',
8      styleUrls: ['./create-booking.component.scss'],
9  })
10 export class CreateBookingComponent implements OnInit {
11     @Input() selectedPlace: Place;
12     @Input() selectedMode: 'select' | 'random';
13     startDate: string;
14     endDate: string;
15
16     constructor(private modalCtrl: ModalController) { }
17
18     ngOnInit() {
19         const availableFrom = new Date(this.selectedPlace.availableFrom);
20         const availableTo = new Date(this.selectedPlace.availableTo);
21         if (this.selectedMode === 'random') {
22             this.startDate = new Date(
23                 availableFrom.getTime() +
24                 Math.random() * (availableTo.getTime() - 7 * 24 * 60 * 60 * 1000 - availableFrom.getTime())
25             ).toISOString();
26
27             this.endDate = new Date(
28                 new Date(this.startDate).getTime() +
29                 Math.random() *
30                 (new Date(this.startDate).getTime() +
31                     6 * 24 * 60 * 60 * 1000 -
32                     new Date(this.startDate).getTime())
33             ).toISOString();
34         }
35     }
36 }
```

11. Modifikasi create-booking.component.html



```
51 [max]="selectedPlace.availableTo.toISOString()"
52 [ngModel]="startDate"
53 name="date-from"
54 required
55 #startDateCtrl="ngModel"></ion-datetime>
56 </ion-item>
57 </ion-col>
58 <ion-col size-sm="3">
59 <ion-item>
60 <ion-label position="floating">To</ion-label>
61 <ion-datetime
62     display-format="MMM DD YYYY"
63     picker-format="YY MM DD"
64     [min]="startDateCtrl.value"
65     [max]="selectedPlace.availableTo.toISOString()"
66     [ngModel]="endDate"
67     name="date-to"
68     required></ion-datetime>
69 </ion-item>
```

12. Lihat hasilnya di browser, jika memilih random date, apakah muncul random date?



Gading Apartment

First Name

Last Name

Number of Guests
2

From
Aug 09 2019

To
Aug 09 2019

BOOK!