Validating & Submit Form

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

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

```
EXPLORER: UNTITL... 뉩 🖆 ひ 🗊
                                       create-booking.component.ts >

✓ ○ umn-homes

                                        umn-homes > src > app > bookings > create-booking > 🐧 create-booking.component.ts
                                               import { Component, OnInit, Input, ViewChild } from '@angular/core';
import { Place } from 'src/ann/places/place model';
 > 📭 e2e
                                                     rt { Place } from 'src/app/places/place.model';
 > node_modules
                                                     rt { ModalController } from '@ionic/angular';

✓ Important
                                               import { NgForm } from '@angular/forms';
  V 📠 app
   > 🜇 auth
                                               @Component({
                                                 selector: 'app-create-booking',

✓ Image bookings

                                                 templateUrl: './create-booking.component.html',

✓ I create-booking

                                                 styleUrls: ['./create-booking.component.scss'],
         create-booking.component...
           create-booking.component...
                                               export class treateds: Place; @Input() selectedPlace: Place;
                                                   ort class CreateBookingComponent implements OnInit {
        create-booking.component...
                                               @Input() selectedMode: 'select' | 'random';
                                               @ViewChild('f') form: NgForm;
       booking.model.ts
                                                 startDate: string;
       booking.service.spec.ts
                                                endDate: string;
EXPLORER: UNTITL... 눱 🖆 ひ 🗿
                                         create-booking.component.ts ×
                                          🥑 umn-homes > src > app > bookings > create-booking > 🐧 create-booking.compor

✓ I create-booking

         create-booking.component...
                                                    datesValid() {
         create-booking.component...
                                                     const startDate = new Date(this.form.value['date-from']);
const endDate = new Date(this.form.value['date-to']);
         create-booking.component...
                                                      return endDate > startDate;
       booking.model.ts
       booking.service.spec.ts
                                                  }
       A booking.service.ts
```

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

```
EXPLORER: UNTITL... 🖰 🖆 ひ 🗿
                                      create-booking.component.html ×

    umn-homes > src > app > bookings > create-booking > 
    create-booking.component.html > 
    €

✓ I create-booking

        create-booking.component...
       create-booking.component...
       🚨 create-booking.component...
      create-booking.component... 74 \ 75
                                                          type="submit"
      booking.model.ts
                                                           color="primary"
                                           booking.service.spec.ts
                                                         [disabled]="!f.valid || !datesValid()";Book!</ion-button>
      A booking.service.ts
      bookings.module.ts
      5 bookings.page.html
      g bookings.page.scss
      bookings.page.spec.ts
```

4. Coba create booking, dan pilih tanggal akhir sebelum tanggal awal, apakah button disabled?

5. Modifikasi kode pada create-booking.component.html

```
EXPLORER: UNTITL... 🖰 🖆 ひ 🗿
                                    create-booking.component.ts ×
                                     umn-homes > src > app > bookings > create-booking >  create-booking

✓ I create-booking

        g create-booking.component...
        🙎 create-booking.component...
                                              onBookPlace() {
        create-booking.component...
                                                if (!this.form.valid || !this.datesValid) {
                                      50
       booking.model.ts
       booking.service.spec.ts
                                                this.modalCtrl.dismiss({ bookingData: {
                                                  firstName: this.form.value['first-name'],
       booking.service.ts
                                                  lastName: this.form.value['last-name'],
       bookings.module.ts
                                                  guestNumber: this.form.value['guest-number'],
       bookings.page.html
                                                  startDate: this.form.value['date-from'],
       bookings.page.scss
                                                  endDate: this.form.value['date-to']
       bookings.page.spec.ts
                                                } }, 'confirm');
       bookings.page.ts
```

Managing State

Adding New Places

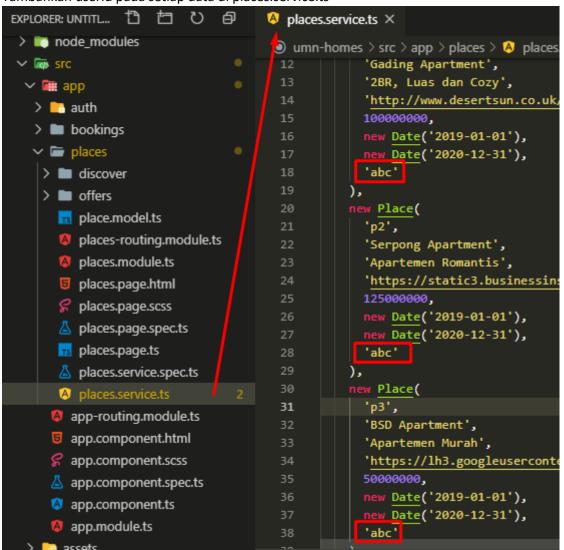
1. Tambahkan kode berikut pada place.model.ts

```
EXPLORER: UNTITL... 쒑 🖆 ひ 🗿
                                   place.model.ts ×
 > node_modules
                                    umn-homes > src > app > places > 15 place.model.ts
∨ 🖙 src
                                           export class Place {
                                               constructor(

✓ Image app

                                                   public id: string,
   > 📑 auth
                                                   public title: string,
   > bookings
                                                   public description: string,
   places
                                                   public imageUrl: string,
                                                   public price: number,
    > discover
                                                   public availableFrom: Date,
    > offers
                                                  public availableTo: Date,
       place.model.ts
                                                  public userId: string
                                     10
         places-routing.module.ts
                                               ) {}
         places.module.ts
                                           }
        places.page.html
```

2. Tambahkan userld pada setiap data di places.service.ts



3. Tambahkan kode berikut pada auth.service.ts

```
EXPLORER: UNTITL... 🖰 🖆 ひ 🗿
                                   auth.service.ts ×
  · · ahh
                                    umn-homes > src > app > auth > A auth.service.ts
   🗸 🛅 auth
                                            providedIn: 'root'
      auth.guard.spec.ts
                                          })
      auth.guard.ts
                                          export class AuthService {
      auth.module.ts
                                           private userIsAuthenticated = true;
                                           private _userId = 'abc';
      auth.page.html
      auth.page.scss
                                            get userIsAuthenticated() {
      auth.page.spec.ts
                                             return this._userIsAuthenticated;
      auth.page.ts
      auth.service.spec.ts
                                            get userId() {
      A auth.service.ts
                                     15
                                             return this._userId;
   > bookings
                                            }
```

4. Tambahkan kode berikut pada places.service.ts

```
ORER: UNTITL... 뉩 古 ひ 🗿
                                     A places.service.ts >
                                      o umn-homes > src > app > places > ♠ places.service.ts > ♦ PlacesService > ♦ addPlace
                                                constructor(private authService: AuthService) { }
> bookings

✓ Implace

                                                getPlace(id: string){
   return {...this._places.find(p => p.id === id)};
> iii discover
 > offers
   place.model.ts
                                                addPlace(title: string, description: string, price: number, dateFrom: Date, dateTo: Date) {
    const newPlace = new Place(
    Math.random().toString(),
    places-routing.module.ts
     places.module.ts
     places.page.html
    places.page.scss
                                                   *https://static3.businessinsider.com/image/5681799ce6183e55008b526d-480/carmel-place-nyc-micro-apartment.jpg', price, datefrom,
    places.page.spec.ts
    places.page.ts
                                                     this.authService.userId
     app-routing.module.ts
                                                     his._places.push(newPlace);
     app.component.scss
```

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

```
explorer: UNTITL...  

new-offer.page.scss

new-of
```

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

```
EXPLORER: UNTITL... 뉩 古 ひ 🗿
                                         new-offer.page.ts ×

    umn-homes > src > app > places > offers > new-offer > 
    new-offer.page.ts > ...
    rew-offer.page.ts > ...

          new-offer.page.scss
          new-offer.page.spec.ts
                                                   onCreateOffer() {
      > n offer-bookings
                                                     if(!this.form.valid) {
      > offer-item
         offers.module.ts
         offers.page.html
                                                     this.placesService.addPlace(
         g offers.page.scss
                                                       this.form.value.title,
                                                        this.form.value.description,
         offers.page.spec.ts
                                                       +this.form.value.price, /
        g offers.page.ts
                                                        new Date(this.form.value.dateFrom),
new Date(this.form.value.dateTo),
       place.model.ts
        places-routing.module.ts
        places.module.ts
                                                     console.log(this.form);
        places.page.html
          places.page.scss
        places.page.spec.ts
```

- 7. Coba tambahkan new offer melalui browser, dan setelah form disubmit, apakah datanya muncul pada halaman discover?
- 8. Tambahkan router pada constructor new-offer

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

```
EXPLORER: UNTITL... 🎦 🖆 ひ 🗿
                                new-offer.page.ts ×
       discover.module.ts
                                 discover.page.html
       discover.page.scss
                                         onCreateOffer() {
                                          if(!this.form.valid) {
       discover.page.spec.ts
      discover.page.ts
    offers
                                          this.placesService.addPlace(
     > edit-offer
                                            this.form.value.title,
                                            this.form.value.description,
     new-offer
                                            +this.form.value.price, // + untuk mengkonversi an
        new-offer.module.ts
                                            new Date(this.form.value.dateFrom),
        new-offer.page.html
                                            new Date(this.form.value.dateTo),
        new-offer.page.scss
        new-offer.page.spec.ts
                                          );
                                          this.form.reset();
                                          this.router.navigate(['/places/tabs/offers']);
                                 54
     > offer-bookings
     > offer-item
         offers.module.ts
```

10. Reload halaman new-offer, kemudian tambahkan new place, apa yang terjadi? Apakah data place yang baru muncul di halaman Offers?

RxJS Subjects for State Management

1. Modifikasi kode pada places.service.ts menjadi seperti berikut

```
EXPLORER: UNTITL... 🖰 🖆 🖰 🗗
                                       A places.service.ts ×
         discover.module.ts
                                         discover.page.html
                                                     rivate _places = new BehaviorSubject<Place[]>([
new Place(
         g discover.page.scss
         discover.page.spec.ts
                                                      'p1',
'Gading Apartment',
'dan Cozy
        discover.page.ts
      > offers
                                                       '2BR, Luas dan Cozy',
                                                       'http://www.desertsun.co.uk/blog/images/Apartment%201.jpg',
       places-routing.module.ts
                                                       new <u>Date('2019-01-01')</u>,
new <u>Date('2020-12-31')</u>,
        places.module.ts
       ፱ places.page.html
                                                       'abc'
                                                    ),
new <u>Place(</u>
'p2',
'Serpong
        places.page.scss
        places.page.spec.ts
       🖪 places.page.ts
                                                       'Serpong Apartment',
       places.service.spec.ts
                                                       'Apartemen Romantis',
'https://static3.businessinsider.com/image/5681799ce6183e55008b526d-480/carmel-place
        A places.service.ts
       app-routing.module.ts
                                                       new <u>Date('2019-01-01')</u>,
new <u>Date('2020-12-31')</u>,
      app.component.html
      app.component.scss
                                                    ),
new Place(
      app.component.ts
                                                       'p3',
'BSD Apartment',
'Apartemen Murah',
      app.module.ts
  > 🋅 assets
   > 🔃 environments
                                                       'https://lh3.googleusercontent.com/-F5aY6yinaiA/TW_NzlRJppI/AAAAAAAAAAO/fewLnztPeDL/s
   > theme
                                                       50000000,

new Date('2019-01-01'),

new Date('2020-12-31').
     global.scss
                                                           Date('2020-12-31'),
     index.html
                                                        'abc'
                                                     ),
     polyfills.ts
```

2. Tambahkan kode berikut pada places.service.ts

```
places.page.ts

places.page.ts

places.service.ts ×

umn-homes > src > app > places > ♠ places.service.ts > ♠ PlacesService.ts

import { Injectable } from '@angular/core';

import { Place } from './place.model';

places.service.ts

app-routing.module.ts

app.component.html

places.service.ts ×

import { AuthService } from '../auth/auth.service';

import { BehaviorSubject } from 'rxjs';

import { take, map } from 'rxjs/operators';
```

3. Modifikasi places.service.ts menjadi seperti berikut

```
EXPLORER: UNTITL... 🖰 🖆 🖰 🗗 🖒 places.service.ts ×
                                                                                                                                                                                                                                               \textcircled{9} \hspace{0.1cm} \textbf{umn-homes} > \textbf{src} > \textbf{app} > \textbf{places} > \overset{\textbf{A}}{ } \hspace{0.1cm} \textbf{places.service.ts} > \overset{\textbf{A}}{ } \hspace{0.1cm} \textbf{PlacesService} > \overset{\textbf{A}}{ } \hspace{0.1cm} \textbf{getPlace} > \overset{\textbf{A}}{ } \hspace{0.1cm} \textbf{map()} \hspace{0.1cm} \textbf{callb} 
                                           places.page.ts
                                                                                                                                                                                                                                                                                                      ]);
                                        A places.service.spec.ts
                                         A places.service.ts
                                                                                                                                                                                                                                                                                                      get places() {
                                     app-routing.module.ts
                                                                                                                                                                                                                                                                                                            return this._places.asObservable();
                                    app.component.html
                                    g app.component.scss
                                                                                                                                                                                                                                                                                                      constructor(private authService: AuthService) { }
                                     app.component.spec.ts
                                  app.component.ts
                                                                                                                                                                                                                                                                                                      getPlace(id: string){
                                                                                                                                                                                                                                                                                                             return this.places.pipe(
take(1),
                                  app.module.ts
               > 🛅 assets
                                                                                                                                                                                                                                                                                                                             map(places => {
               > 🔃 environments
                                                                                                                                                                                                                                                                                                                                                   return {...places.find(p => p.id === id)};
              > 📪 theme
                            global.scss
                           main.ts
                                                                                                                                                                                                                                                                                                       addPlace(title: string, description: string, price: number, dateFrom: Date, date
                           polyfills.ts
                                                                                                                                                                                                                                                                                                             const newPlace = new Place(
                           test.ts
                                                                                                                                                                                                                                                                                                                         Math.random().toString(),
                         zone-flags.ts
                                                                                                                                                                                                                                                                                                                      title,
                                                                                                                                                                                                                                                                                                                  description,
'https://static3.businessinsider.com/image/5681799ce6183e55008b526d-480/carme
price,
dateFrom,
                       .gitignore
                                  angular.ison
                    O browserslist
                    o ionic.config.json
                                                                                                                                                                                                                                                                                                                         dateTo,
                       K karma.conf.js
                                                                                                                                                                                                                                                                                                                             this.authService.userId

package-lock.json

                    package.json
                                                                                                                                                                                                                                                                                                                  this.places.pipe(take(1)).subscribe(places => {

    tsconfig.app.json
    tsconfig.app.
                                                                                                                                                                                                                                                                                                                            this._places.next(places.concat(newPlace));

    tsconfig.json
    tsc

    tsconfig.spec.json
    tsconfig.spec
                  €...} tslint.ison
```

4. Tambahkan kode berikut pada offers.page.ts

```
DRER: UNTITL... 📋 🖆 ひ 🗗 🥖 📆 offers.page.ts 🗙

    umn-homes > src > app > places > offers > 
    src → app → places > offers > 
    src → app → places > offers > 
    src → app → places > offers → app → app
          g offers.page.scss
                                                                                       import { Component, OnInit, OnDestroy } from '@angular/core';
import { PlacesService } from '../places.service';
import { Place } from '../place.model';
import { IonItenSliding } from '@ionic/angular';
import { Router } from '@angular/router';
          △ offers.page.spec.ts
      place.model.ts
          places-routing.module.ts
                                                                                                       import { Subscription } from 'rxjs';
         places.module.ts
       places.page.html
                                                                                                        @Component({
       places.page.scss
                                                                                                         selector: 'app-offers',
        ∆ places.page.spec.ts
                                                                                                            templateUrl: './offers.page.html',
                                                                                                             styleUrls: ['./offers.page.scss'],
     places.page.ts
      places.service.spec.ts
                                                                                                                      rt class OffersPage implements OnInit, OnDestroy {
      places.service.ts
                                                                                                            offers: Place[]:
    app-routing.module.ts
                                                                                                             private placesSub: Subscription;
    app.component.html
                                                                                                              constructor(private placesService: PlacesService, private router: Router) { }
    app.component.scss
    app.component.spec.ts
                                                                                                              ngOnInit() {
   app.component.ts
                                                                                                                 this.placesSub = this.placesService.places.subscribe(places => {
   app.module.ts
                                                                                                                       this.offers = places;
   assets
 environments
 theme
                                                                                                              onEdit(offerId: string, slidingItem: IonItemSliding) {
   global.scss
                                                                                                                  slidingItem.close();
                                                                                                                   this.router.navigate(['/', 'places', 'tabs', 'offers', 'edit', offerId]);
console.log('Editing item', offerId);
       index.html
   polyfills.ts
                                                                                                             ngOnDestroy() {
   zone-flags.ts
                                                                                                                  this.placesSub.unsubscribe();
     .gitignore
```

5. Tambahkan kode berikut pada discoverpage.ts

```
SPLORER: UNTITL... 🖰 🖆 ひ 🗿
                                                                                          discover.page.ts ×
                                                                                              💿 umn-homes > src > app > places > discover > 📆 discover.page.ts > ધ DiscoverPage > 😚 ı

→ Image
→ places

| Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Places | Place
                                                                                                           import { Component, OnInit, OnDestroy } from '@angular/core';
import { PlacesService } from '../places.service';
import { Place } from '../place.model';
import { SegmentChangeEventDetail } from '@ionic/core';
import { Subscription } from 'rxjs';

→ i discover

          > n place-detail
                discover.module.ts
                discover.page.html
                discover.page.scss
                                                                                                             @Component({
    selector: 'app-discover',
    templateUrl: './discover.page.html',

▲ discover.page.spec.ts

                discover.page.ts

✓ 

    offers

                                                                                                                   styleUrls: ['./discover.page.scss'],
         > edit-offer
                                                                                                                             rt class DiscoverPage implements OnInit, OnDestroy {
          > new-offer
                                                                                                                    loadedPlaces: Place[];
         > offer-bookings
                                                                                                                    listedLoadedPlaces: Place[];
          > offer-item
                                                                                                                   private placesSub: Subscription;
                offers.module.ts
                                                                                                                     constructor(private placesService: PlacesService) { }
                offers.page.html
               g offers.page.scss
                                                                                                                   ngOnInit() {
               offers.page.spec.ts
                                                                                                                           this.placesSub = this.placesService.places.subscribe(places => {
              offers.page.ts
                                                                                                                              this.loadedPlaces = places;
            place.model.ts
                                                                                                                              this.listedLoadedPlaces = this.loadedPlaces.slice(1);
            place.moder.cs
places-routing.module.ts
             places.module.ts
             places.page.html
                                                                                                                     onFilterUpdate(event: CustomEvent<SegmentChangeEventDetail>) {
                  places.page.scss
                                                                                                                         console.log(event.detail);
             places.page.spec.ts
            places.page.ts
                                                                                                                     ngOnDestroy() {
            places.service.spec.ts
                                                                                                                          if (this.placesSub) {
            A places.service.ts
                                                                                                                          this.placesSub.unsubscribe();
           app-routing.module.ts
          app.component.html
```

6. Coba buka halaman Discover.

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

```
ORER: UNTITL... 쒑 🖆 ひ 🗗 ா place-detail.page.ts 🗙
                                                                                             6 umn-homes > src > app > places > discover > place-detail >  place-detail.page.ts >  PlaceDetailPage >  ngOnDestront
12 | templateUrl: './place-detail.page.html',
   places
   discover
                                                                                                                    styleUrls: ['./place-detail.page.scss'],
    place-detail.module.ts
                                                                                                                                 class PlaceDetailPage implements OnInit, OnDestroy {
               place-detail.page.html
                                                                                                                  private placeSub: Subscription;
               place-detail.page.scss
              place-detail.page.spec.ts
                                                                                                                   ) { }
             discover.module.ts
                                                                                                                    ngOnInit() {
            discover.page.html
                                                                                                                            this.route.paramMap.subscribe(paramMap => {
            discover.page.scss
                                                                                                                              if (!paramMap.has('placeId')) {
              discover.page.spec.ts
                                                                                                                              this.navCtrl.navigateBack('/places/tabs/discover');
          discover.page.ts
                                                                                                                         }
this.placeSub = this.placesService.getPlace(paramMap.get('placeId')).subscribe(place => {
    this.place = place;
});

✓ Image: very limited of the property of 
    > edit-offer
    > new-offer
     > offer-bookings
     > offer-item
            offers.module.ts
                                                                                                                    onBookPlace() { ··
            offers.page.html
            g offers.page.scss
                                                                                                                   openBookingModal(mode: 'select' | 'random') {
            offers.page.spec.ts
                                                                                              69 >
           offers.page.ts
        g place.model.ts
                                                                                                                   ngOnDestroy() {
          places-routing.module.ts
                                                                                                                      if (this.placeSub) {
                places.module.ts
                                                                                                                              this.placeSub.unsubscribe():
                                                                                               90
              places.page.html
        places.page.scss
```

- 8. Coba buka halaman place detail.
- 9. Modifikasi kode pada edit-offer.page.ts dan offer-bookings.page.ts menggunakan Subscription.

UI State

1. Modifikasi offer-item.component.html

2. Modifikasi kode pada places.service.ts untuk memberikan waktu tunda ketika menambah place

```
places.page.scss

places.page.spec.ts

places.page.spec.ts

places.page.ts

places.service.ts

places.servic
```

To be continue...