Start new blank Ionic Project

Install firebase angularFire

https://github.com/angular/angularfire

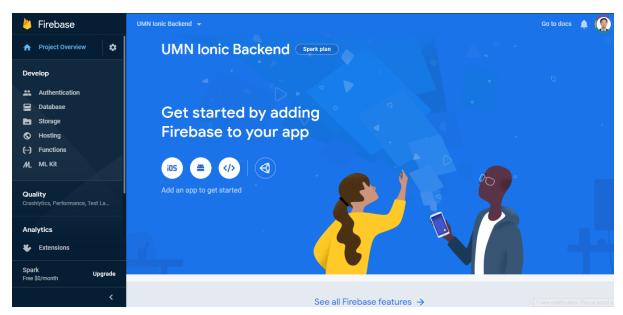
D:\ionic-course-umn\ionic-backend> npm install firebase @angular/fire --save

Buat page

D:\ionic-course-umn\ionic-backend> ionic g page pages/todoDetails

Buat service todo

Buat Project Baru di Firebase



Copas bagian ini

Copy and paste these scripts into the bottom of your <body> tag, but before you use any Firebase services:

```
<!-- The core Firebase JS SDK is always required and must be listed first -->
<script src="https://www.gstatic.com/firebasejs/7.2.2/firebase-app.js"></script</pre>
<!-- TODO: Add SDKs for Firebase products that you want to use
     https://firebase.google.com/docs/web/setup#available-libraries -->
<script>
  // Your web app's Firebase configuration
  var firebaseConfig = {
    apiKey: "AIzaSyBM3JEeJhvv4ExymPHIHzpxibDsBg5DqUM",
    authDomain: "umn-ionic-backend.firebaseapp.com", databaseURL: "https://umn-ionic-backend.firebaseio.com",
    projectId: "umn-ionic-backend",
    storageBucket: "umn-ionic-backend.appspot.com",
    messagingSenderId: "1004227039623",
    appId: "1:1004227039623:web:af7571928d0633deadc322
  };
  // Initialize Firebase
  firebase.initializeApp(firebaseConfig);
</script>
```

Learn more about Firebase for web: Get Started [2], Web SDK API Reference [2], Samples [2]

Set environment

```
EXPLOR... To to O
                                                                                                              environment.ts ×
                                                                                                                    j ionic-backend > src > environments > 15 environment.ts > [∅] environment
            > 🔯 services
                      app-routing.mo... M
                      app.component.html
                     app.component.scss
                     app.component.spec....
                                                                                                                                           export const environment = {
                                                                                                                                                   production: false,
                     app.component.ts
                                                                                                                                                   firebase: {
                      app.module.ts
                                                                                                                                                          apiKey: "AIzaSyBM3JEeJhvv4ExymPHIHzpxibDsBg5DqUM",
        > 🧓 assets
                                                                                                                                                          authDomain: "umn-ionic-backend.firebaseapp.com",
                                                                                                                                                          databaseURL: "https://umn-ionic-backend.firebaseio.com",

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✓ Im
                                                                                                                                                          projectId: "umn-ionic-backend",
                     environment.prod.ts
                                                                                                                                                          storageBucket: "umn-ionic-backend.appspot.com",
                                                                                                                                                         messagingSenderId: "1004227039623",
        > 🔯 theme
                                                                                                                                                         appId: "1:1004227039623:web:af7571928d0633deadc322"
                                                                                                                     14
                   global.scss
                          index.html
                                                                                                                                           };
                   main.ts
```

Tambahkan kode berikut

```
EXPLOR... TO TO D
                            app.module.ts ×
                            🗸 🛅 app
   > lim home
   > 🎼 pages
                                   import { AngularFireModule } from '@angular/fire';
import { environment } from '../environments/environment';
    services
                                  import { AngularFirestoreModule } from '@angular/fire/firestore';
      app-routing.mo... M
     app.component.html
                                   @NgModule({
     app.component.scss
                                    declarations: [AppComponent],
     app.component.spec....
                                    entryComponents: [],
     app.component.ts
                                     imports: [BrowserModule, IonicModule.forRoot(), AppRoutingModule,
     app.module.ts
                                      AngularFireModule.initializeApp(environment.firebase),
  > 🏮 assets
                                      AngularFirestoreModule],
                             21
                                    providers: [
  > 🔣 environments
                                      StatusBar,
  > 📴 theme
                                      SplashScreen,
      global.scss
                                      { provide: RouteReuseStrategy, useClass: IonicRouteStrategy }
    index.html
                                    ],
    main.ts
                                   bootstrap: [AppComponent]
    polyfills.ts
                                   export class AppModule {}
    test.ts
       zone-flags.tv
```

Ubah routing menjadi

Todo service

environment.ts

> theme

global.scss
index.html
main.ts

```
EXPLOR... 🖰 🖆 🖰 🗿
                                                                                                                 A todo.service.ts X
                            home.page.spec.ts
                                                                                                                      🧕 ionic-backend > src > app > services > 🔼 todo.service.ts > ધ TodoService > 😚 removeTodo
                                                                                                                                             import { Injectable } from '@angular/core';
import { AngularFirestore, AngularFirestoreCollection } from '@angular/fire/firestore';
import { Observable } from 'with
                          home.page.ts
              > 🎼 pages
                                                                                                                                              import { Observable } from 'rxjs';
import { map } from 'rxjs/operators';
              todo.service.sp... U
                           🐧 todo.service.ts 🔱
                                                                                                                                             export interface Todo {
                                                                                                                                               task: string;
                       app-routing.mo... M
                                                                                                                                                   priority: number;
                       g app.component.html
                                                                                                                                                     createdAt: number;
                       gapp.component.scss
                       app.component.spec....
                       app.component.ts
                                                                                                                                              @Injectable({
                                                                                                                                                   providedIn: 'root'
                       app.module.ts M
         > 🋅 assets
                                                                                                                                                          port class TodoService {

✓ Image: Value of the valu
                                                                                                                                                      private todosCollection: AngularFirestoreCollection<Todo>;
                      environment.prod.ts
                      environment.ts M
                                                                                                                                                      private todos: Observable<Todo[]>;
          > 📴 theme
                                                                                                                                                      constructor(db: AngularFirestore) {
                    global.scss
                                                                                                                                                               this.todosCollection = db.collection<Todo>('todos');
                   index.html
                  main.ts
                                                                                                                                                             this.todos = this.todosCollection.snapshotChanges().pipe(
                                                                                                                                                                    map(actions => {
                  polyfills.ts
                                                                                                                                                                                           urn actions.map(a => {
                  test.ts
                                                                                                                                                                               const data = a.payload.doc.data();
                 zone-flags.ts
                                                                                                                                                                                   const id = a.payload.doc.id;
                                                                                                                                                                                    return { id, ...data };
                .gitignore
                 angular.json
              O browserslist
              ionic.config.json
EXPLOR... TI TI O
                                                                                                                                                todo.service.ts X
                                  home.page.spec.ts

    ionic-backend > src > app > services > ♠ todo.service.ts > ♣ TodoService > ♠
                                nome.page.ts
                 > lipages

✓ Image: Value of the services of the ser
                                                                                                                                                                                               getTodos() {
                                                                                                                                                                                                return this.todos;
                                 todo.service.sp...
                                A todo.service.ts
                             app-routing.mo... M
                                                                                                                                                                                                getTodo(id) {
                            app.component.html
                                                                                                                                                                                                   return this.todosCollection.doc<Todo>(id).valueChanges();
                            g app.component.scss
                            app.component.spec....
                                                                                                                                                                                                updateTodo(todo: Todo, id: string) {
                            app.component.ts
                                                                                                                                                                                                return this.todosCollection.doc(id).update(todo);
                            app.module.ts
          > 🫅 assets
                                                                                                                                                                                                addTod(todo: Todo) {

∨ Image: Very managements

✓ Image: Very ma
                                                                                                                                                                                                return this.todosCollection.add(todo);
                            environment.prod.ts
```

removeTodo(id) {

51

return this.todosCollection.doc(id).delete();

Homepage.ts

```
rlor... 🖰 🖆 ひ 🗿
                                                                                           nome.page.ts ×
  node_modules
                                                                                              🂿 ionic-backend > src > app > home > 📆 home.page.ts > ધ HomePage > 🔑 rem
   src 🖚
                                                                                                                    import { Component, OnInit } from '@angular/core';
import { Todo, TodoService } from '../services/todo.service';
     app app
    v 🗁 home
                                                                                                                    @Component({
               Nome.module.ts
                                                                                                                           selector: 'app-home',

■ home.page.html

                                                                                                                            templateUrl: 'home.page.html',
               home.page.scss
                                                                                                                            styleUrls: ['home.page.scss'],
              home.page.spec.s
                                                                                                                      export class HomePage implements OnInit {
              📊 home.page.ts 🖊 M
                                                                                                                            todos: Todo[];
   > 瞔 pages

✓ Image: Value of the services of the ser
                                                                                                                            constructor(private todoService: TodoService) {}
               La todo.service.sp... U
              A todo.service.ts U
                                                                                                                                    this.todoService.getTodos().subscribe(res => {
           app-routing.mo... M
                                                                                                                                         this.todos = res;
           g app.component.html
                                                                                                                                   });
           app.component.scss
           app.component.spec....
                                                                                                 20
                                                                                                                            remove(item) {
           app.component.ts
                                                                                                                             this.todoService.removeTodo(item.id);
                                                                                                 21
           app.module.ts
       p assets
       environments
```

Home.page.html

```
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                      ョ
EXPLOR...
        home.page.html ×
    ahh
                             ionic-backend > src > app > home > 5 home.

✓ Image: Nome

                                    <ion-header>
      home.module.ts
                                      <ion-toolbar color="primary">
      home.page.h... 1, M
                               4
                                          Ionic Firestore
      home.page.scss
                                        </ion-title>
      home.page.spec.ts
                                      </ion-toolbar>
      nome.page.ts
                        М
                                    </ion-header>
```

```
EXPLOR... 🖰 🖆 🖰 🗗
                                                                                                                               ■ home.page.html ×

    ionic-backend > src > app > home > 
    ione.page.html > 
    ion-content > 
    ion-fab.

✓ Image: whome of the property of the pro
                       home.module.ts
                                                                                                                                                                                                     home.page.scss
                                home.page.spec.ts
                              nome.page.ts M
                                                                                                                                                                                                                       <ion-skeleton-text class="fake-skeleton"></ion-skeleton-text>
                        pages

✓ □ services

                               🚨 todo.service.sp... U
                              A todo.service.ts U
                                                                                                                                                                                                     app-routing.mo... M
                          app.component.html
                                                                                                                                                                                                                          {{ item.task }}
                          g app.component.scss
                                                                                                                                                                                                              </ion-label>
</ion-note slot="end" color="primary">{{ item.priority }}</ion-note>
</ion-item>
                                                                                                                                                                                                                                 {{ item.createdAt | date:'short' }}
                         🚨 app.component.spec....
                         app.component.ts
                          app.module.ts
          > 🌔 assets
                                                                                                                                                                                                              <ion-item-options side="end">
    <ion-item-option (click)="remove(item)" color="secondary">
    ion-checkbox<ion-icon name="checkmark" slot="end"></ion-icon>

✓ Image: Value of the valu
                         environment.prod.ts
                                                                                                                                                                                            </ion-item-option>
</ion-item-options>
</ion-item-sliding>
</ion-list>
                          environment.ts
          > 📪 theme
                     global.scss
                     index.html
                   main.ts
                                                                                                                                                                                            <ion-fab vertical="bottom" horizontal="end" slot="fixed">
                                                                                                                                                                                           polyfills.ts
                    test.ts
                   zone-flags.ts
                         .gitignore
```

Todo Details page

```
EXPLORER: UNTITLED (... 뉩 뉩 ひ 🗿
                                                                                                                     todo-details.page.ts ×
                                                                                                                         🌖 ionic-backend > src > app > pages > todo-details > 📆 todo-details.page.ts > 😭 TodoDe
 ∨ 麻 src
                                                                                                                                             import { Component, OnInit } from '@angular/core';
import { Todo, TodoService } from 'src/app/services/todo.service';
import { ActivatedRoute } from '@angular/router';
import { LoadingController, NavController } from '@ionic/angular';

✓ Image: app

✓ Image: Home

                   home.module.ts
                   @Component({
                   home.page.scss
                                                                                                                                               selector: 'app-todo-details',
                   home.page.spec.ts
                                                                                                                                                   templateUrl: './todo-details.page.html',
styleUrls: ['./todo-details.page.scss'],
                  nome.page.ts
                                                                                                       М

→ Images

                                                                                                                                               export class TodoDetailsPage implements OnInit {

✓ i todo-details

                       todo-details.module.ts
                                                                                                                                                     todo: Todo = {
                       todo-details.page.html
                                                                                                                                                      task: 'Test 123',
                       fodo-details.page.scss
                                                                                                                                                        createdAt: new Date().getTime(),
                      ∆ todo-details.page.spec.ts U
                                                                                                                                                        priority: 2

✓ □ services

                                                                                                                                                    todoId = null;

▲ todo.service.spec.ts

                   A todo.service.ts
                                                                                                                                                    constructor(
                                                                                                                                                     private todoService: TodoService,
private route: ActivatedRoute,
private loadingController: LoadingController,
private navController: NavController) { }
               app-routing.module.ts
                                                                                                      М
               ■ app.component.html
               app.component.scss
               app.component.spec.ts
               app.component.ts
                                                                                                                                                     ngOnInit() {
                                                                                                                                                           this.todoId = this.route.snapshot.params['id'];
                 app.module.ts
                                                                                                                                                           if (this.todoId) {
     > 🌔 assets
                                                                                                                                                           this.loadTodo();

✓ Image: Very memory memo
                environment.prod.ts
```

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                                                                                                   todo-details.page.ts ×
                                                                                                      of ionic-backend > src > app > pages > todo-details > 📆 todo-details.page.ts > ધ TodoDetails
   src src
 🗸 ጩ арр

✓ Image: Nome

             home.module.ts

■ home.page.html

                                                                                                                                    await loading.present();
            home.page.scss
            home.page.spec.ts
                                                                                                                                   this.todoService.getTodo(this.todoId).subscribe(res => {
            nome.page.ts
                                                                                                                                      loading.dismiss();
                                                                                                                                        this.todo = res;
   🗸 🛅 pages

✓ i todo-details

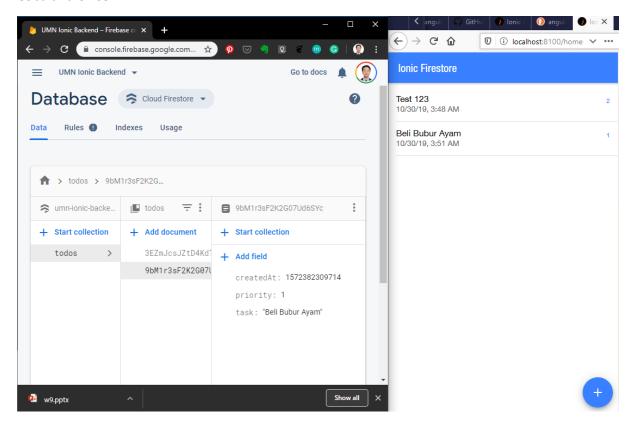
                todo-details.module.ts
                      todo-details.page.html
                                                                                                                              async saveTodo() {
                                                                                                                                  const loading = await this.loadingController.create({
   message: 'Saving Todo...'
                g todo-details.page.scss
            🚨 todo-details.page.spec.ts 🕴 U
                                                                                                                                    await loading.present();

✓ Image: Services

                                                                                                                                    if (this.todoId) {
            ▲ todo.service.spec.ts
                                                                                                                                         this.todoService.updateTodo(this.todo, this.todoId).then(() => {
            A todo.service.ts
                                                                                                                                          loading.dismiss();
           app-routing.module.ts
                                                                                                                                               this.navController.navigateBack('home');
         app.component.html
                                                                                                                                   } else {
  this.todoService.addTodo(this.todo).then(() => {
         app.component.scss
         app.component.spec.ts
                                                                                                                                            loading.dismiss();
         app.component.ts
                                                                                                                                           this.navController.navigateBack('home');
          app.module.ts
                                                                                      М
      e assets

✓ Image: Very memory memo
         environment.prod.ts
                                                                                      М
         environment.ts
```

Coba di browser



With PHP & MySQL

New Project Blank

Generate page

```
D:\ionic-course-umn\w10-php-mysql> ionic generate page home/new-booking
```

Buat service

D:\ionic-course-umn\w10-php-mysql> ionic generate service home/bookings

App.module.ts

```
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                                                app.module.ts ×
      bookings.service.ts

    w10-php-mysql > src > app > 
    app.module.ts > ..

                                                import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';
import { RouteReuseStrategy } from '@angular/router':
        home.module.ts
     ■ home.page.html
     home.page.scss
                                                4 import { HttpClientModule } from '@angular/common/http';
     ▲ home.page.spec.ts
                                                      import { IonicModule, IonicRouteStrategy } from '@ionic/angular';
import { SplashScreen } from '@ionic-native/splash-screen/ngx';
import { StatusBar } from '@ionic-native/status-bar/ngx';
     nome.page.ts
    app-routing.module.ts
    app.component.html
       app.component.scss
                                                      import { AppComponent } from './app.component';
import { AppRoutingModule } from './app-routing.module';
    app.component.spec.ts
   app.component.ts
                                                      @NgModule({
                                                        declarations: [AppComponent],
  e assets
                                                        entryComponents: [],
                                                        imports: [BrowserModule, HttpClientModule, IonicModule.forRoot(), AppRoutingModule],
  n environments
  theme
                                                        providers: [
                                                          StatusBar,
  global.scss
                                                          SplashScreen,
      index.html
                                                          { provide: RouteReuseStrategy, useClass: IonicRouteStrategy }
  main.ts
  polyfills.ts
                                                         bootstrap: [AppComponent]
  test.ts
                                                           ort class AppModule {}
```

Home.page.html

```
home.page.html ×
node_modules
                      s src
                            ion-header>
<ion-toolbar>
💷 арр
home
                              Ionic Blank
> new-booking
                           </ion-title>
</ion-toolbar>
</ion-header>
 booking.interface.ts
 ▲ bookings.service.spec.ts
                           A bookings.service.ts
   home.page.html
 home.page.scss
 home.page.spec.ts
```

Buat file booking interface

```
ORER:... 🖰 🖆 ひ 🗗
                           ■ booking.interface.ts ×
node_modules
                            w10-php-mysql > src > app > home > 
src
                                   export interface Booking {
                              1
                                       booking_id: string;
 📺 арр
                                       booking name: string;
 home
                                       topic: string;
> new-booking
                                       details: string;
  booking.interface.ts
                                       booking_date: string;
                                       start_hour: string;
   bookings.service.spec.ts
                                       end_hour: string;
   A bookings.service.ts
                                       status: number;
     home.module.ts
                                       creator: string;
     home.page.html
```

Bookings.service.ts

```
bookings.service.ts ×

    w10-php-mysql > src > app > home >    bookings.service.ts > ...
    import { Injectable } from 'gangular/core';
    import { HttpClient } from 'gangular/common/http';
    import { take, share, tap, switchMap } from 'rxjs/operators';
}

> node_modules
∨ 💷 арр
    > new-booking
                                                           @Injectable({
                                                           providedIn: 'root'
        booking.interface.ts
        △ bookings.service.spec.ts
       home.module.ts
home.page.html
                                                              constructor(private http: HttpClient) { }
        home.page.scss
                                                             fetchBookings() {
    return this.http.get('https://mobdevumn.com/api/fti_booking_app/get_bookings.php');
        ▲ home.page.spec.ts
       nome.page.ts
       app-routing.module.ts
                                                              deleteBooking(id: string) {
    return this.http.post('https://mobdevumn.com/api/fti_booking_app/delete_booking.php', { 'booking_id': id }).pipe(take(1)
       app.component.html

▲ app.component.spec.ts

       app.component.ts
                                                              insertBooking(newBooking: any) {
   console.log(newBooking);
                                                                 console.log(newBooking);
const b = {
    booking name': newBooking.booking_name,
    'topic': newBooking.topic,
    details': newBooking.details,
    'booking date': newBooking.booking_date,
    start hour': newBooking.start_hour,
    'end hour': newBooking.end_hour,
    'contails': newBooking.end_hour,
    'contails': newBooking.end_hour,
    'contails': newBooking.end_hour,
    'contails': newBooking.end_hour,
    'contails': newBooking.end_hour,
 > 🔃 environments
 > 📭 theme
     global.scss
     index.html
    main.ts
     polyfills.ts
                                                                       'creator': newBooking.creator,
                                                                  };
return this.http.post('https://mobdevumn.com/api/fti_booking_app/insert_booking.php', b).pipe(take(1));
     zone-flags.ts
    .gitignore
```

Home.page.ts

```
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  home.page.ts 

×

node_modules
                                   import { Component, OnInit } from '@angular/core';
import { BookingsService } from './bookings.service';
import { Booking } from './booking.interface';
import { AlertController, ModalController } from '@ionic/angular';
src src
 app app
🗸 🗁 home
                                           import { NewBookingPage } from './new-booking/new-booking.page';
 > new-booking
    booking.interface.ts
                                           @Component({
    selector: 'app-home',
    bookings.service.spec.
                                             templateUrl: 'home.page.html',
    A bookings.service.ts
                                             styleUrls: ['home.page.scss'],
    home.module.ts
                                           })

■ home.page.html

                                           export class HomePage implements OnInit {
    private bookings: Booking[] = [];
    home.page.scss
    home.page.spec.ts
    home.page.ts
                                              constructor(
                                               private bookingSvc: BookingsService,
   app-routing.module.ts
                                                private alertCtrl: AlertController,
   g app.component.html
                                                private modalCtrl: ModalController) { }
   g app.component.scss
                                              ngOnInit() {
   app.component.spec.ts
   app.component.ts
   app.module.ts
                                              getBookings() {
  assets
                                                this.bookingSvc.fetchBookings()
    .subscribe((bookings) => {
     console.log(bookings);
  environments
 theme
                                                  });
  global.scss
```

```
(PLORER:... 🖰 🖆 ひ
                       白

■ home.page.ts ×

 node_modules
                               🄰 w10-php-mysql > src > app > home > 📆 home.page.ts > 😭 HomePage
 kp src
                                       async presentAlertPrompt() {
  app app
                                        const alert = await this.alertCtrl.create({

✓ Image: Nome

                                          header: 'Delete a Booking',
   > new-booking
                                          inputs: [
                                            {
     booking.interface.ts
                                              name: 'bookingId',
     bookings.service.spec.fs
                                              type: 'text',
                                              placeholder: 'Enter your booking ID'
     A bookings.service.ts
                                            },
     home.module.ts
                                          1,
     home.page.html
                                          buttons: [
     home.page.scss
                                              text: 'Cancel',
     home.page.spec.ts
                                              role: 'cancel',
     ts home.page.ts
                                              cssClass: 'secondary',
                                              handler: () => {
    app-routing.module.ts
                                                console.log('Confirm Cancel');
    app.component.html
    app.component.scss
                                              text: 'Ok',
    app.component.spec.ts
                                              handler: (data) => {
    app.component.ts
                                                this.bookingSvc.deleteBooking(data.bookingId)
                                                  .subscribe(() => {
    app.module.ts
                                                    this.bookingSvc.fetchBookings()
  assets
                                                      .subscribe((bookings) => {
> R environments
                                                       console.log(bookings);
  theme
                                                    console.log("DELETED");
   global.scss
                                                  });
     index.html
   main.ts
                                          1
   nolyfills.ts
                                        });
  test.ts
                                         await alert.present();
   zone-flags.ts
ORER: ... 🛅 🛅
                               nome.page.ts X

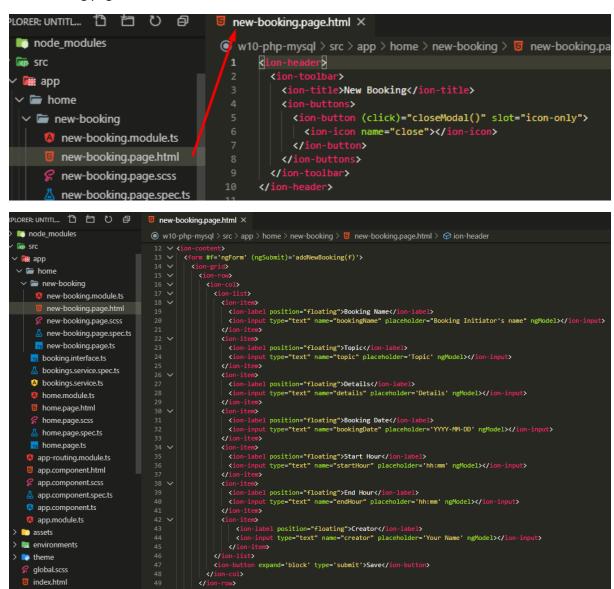
    w10-php-mysql > src > app > home > 
    nome.page.ts > ←

   booking.interface.ts
   bookings.service.spec.ts
                                         async presentModal() {
                                           const modal = await this.modalCtrl.create({
    A bookings.service.ts
                                             component: NewBookingPage
    home.module.ts
                                           });
    home.page.html
                                           return await modal.present();
    home.page.scss
   home.page.spec.ts
                                         newBooking() {
   home.page.ts
                                           this.presentModal();
     app-routing.module.ts
  app.component.html
                                         deleteBooking() {
                                           this.presentAlertPrompt();
  app.component.scss
  app.component.spec.ts
```

app.component.ts

New booking page

index.html



New-booking.page.ts

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                                           new-booking.page.ts ×
 node_modules

    w10-php-mysql > src > app > home > new-booking > new-booking.page.ts > ...
    зсуденть: [ ./нем-ичикдив.раде.scss ],

                                                     }) export class NewBookingPage implements OnInit {
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home
                                                        constructor(private modalCtrl: ModalController, private bookingsSvc: BookingsService) { }
 new-booking
    new-booking.module.ts
                                                        ngOnInit() {
      new-booking.page.html
      new-booking.page.scss
                                                        closeModal() {
   new-booking.page.spec.ts
                                                          this.modalCtrl.dismiss(null, 'cancel');
                                                        addNewBooking(f: NgForm) {
    this.bookingsSvc.insertBooking({
        'booking_name': f.value.bookingName,
        'topic: f.value.topic,
        'details': f.value.details,
        'booking_date': f.value.bookingDate,
        'statt_book': f.value.startHouse.
  ■ booking.interface.ts
     bookings.service.spec.ts
  Ø bookings.service.ts
     home.module.ts
  ■ home.page.html
                                                              'start hour': f.value.startHour,
     home.page.scss
                                                             'end_hour': f.value.endHour,
                                                              'creator': f.value.creator,
  home.page.spec.ts
  home.page.ts
                                                               () => {
    this.bookingsSvc.fetchBookings()
    .subscribe((bookings) => {
        console.log(bookings);
}
 app-routing.module.ts
    app.component.html
    app.component.scss
 app.component.spec.ts
                                                                  console.log("INSERTED");
this.closeModal();
app.component.ts
 app.module.ts
 assets
environments
```