





- 1 Create Admin Dashboard.
- Hits API (Post).
- Upload And Retrieve Image.







The Objective of this lecture

- Generate the admin dashboard and set all responsibilities for the admin.
- Understand the HTTP protocol and how to deal with HTTP posts and send the data from the body.
- Woking with the image and knowing how to upload and retrieve the image from API.









Overview of Dashboard

The Dashboard provides a visual representation of your company's reports in a very easy way.

Charts display real-time information (e.g. technician productivity by work type, resource usage by a number of work orders, etc.)



Step one: Create a new module called Admin .

```
PS C:\Users\d.kanaan.ext\Desktop\EduTech> ng g m admin --routing CREATE src/app/admin/admin-routing.module.ts (248 bytes)
CREATE <a href="mailto:src/app/admin/admin.module.ts">src/app/admin/admin.module.ts</a> (276 bytes)
PS C:\Users\d.kanaan.ext\Desktop\EduTech>
```

Steps to download the Toastr Library in the project

Step two: add the route of the admin module in the root module.

In app-routing.module.ts

```
path:'admin',
loadChildren:()=>AdminModule
}
```





Step three: Create a new component called sidebar inside the Admin module.







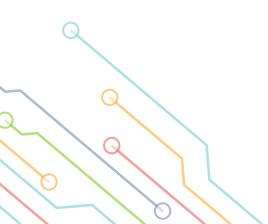
Note: The purpose of this component is to add a sidebar template for each component that the admin is responsible for.







Step four: Add the routing for the sidebar inside the admin module.







Steps to download the Toastr Library in the project

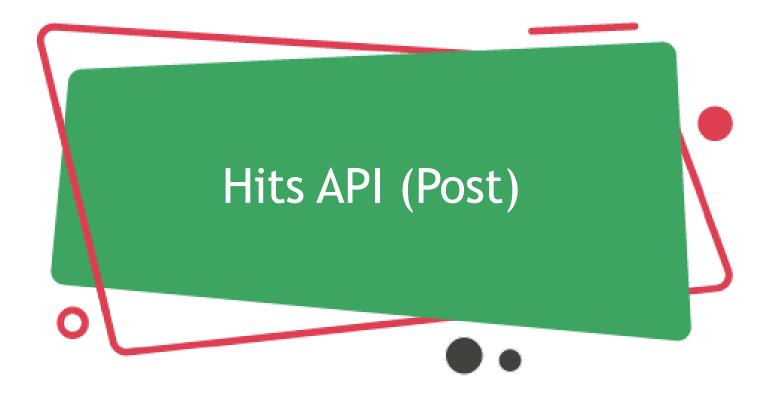
Step five: Use this link to add the sidebar style to the sidebar component.

https://codepen.io/michaelmcshinsky/pen/vYMdrb

Note: Modify the sidebar to fit the admin's responsibilities according to the project.







Overview Of Http Post

Makes HTTP requests. This service is provided as an injectable class that includes methods for making HTTP requests.

During form submission, apps often use POST requests to transmit data to the server.



1. Create a new component in the admin module called manage course to manage all operations that occur on the course table.

CREATE src/app/admin/managecourse/managecourse.component.html (27 bytes)

CREATE src/app/admin/managecourse/managecourse.component.spec.ts (668 bytes)

CREATE src/app/admin/managecourse/managecourse.component.ts (299 bytes)

CREATE src/app/admin/managecourse/managecourse.component.ts (299 bytes)

CREATE src/app/admin/managecourse/managecourse.component.css (0 bytes)

UPDATE src/app/admin/admin.module.ts (466 bytes)



2. Add the route for manage the course component for its module (admin module)

In admin-routing.module.ts

```
path:'managecourse',
  component:ManagecourseComponent
}
```





3. Create a new component to contain the template of the form to create a new course.

```
CREATE src/app/admin/create/create.component.html (21 bytes)
CREATE src/app/admin/create/create.component.spec.ts (626 bytes)
CREATE src/app/admin/create/create.component.ts (275 bytes)
CREATE src/app/admin/create/create.component.ts (275 bytes)
CREATE src/app/admin/create/create.component.css (0 bytes)
UPDATE src/app/admin/admin.module.ts (360 bytes)
PS C:\Users\d.kanaan.ext\Desktop\EduTech>
```



In our project, we'll use an angular material dialog box in the Create component.

4. So, add the API for the dialog in the Shared module.

import {MatDialogModule} from '@angular/material/dialog';



5. Add the name of the dialog module in the import and export array.

imports:

CommonModule,

RouterModule,

FormsModule,

ReactiveFormsModule,

MatFormFieldModule,

MatInputModule,

MatDialogModule

exports:
FormsModule,
ReactiveFormsModule,
MatFormFieldModule,
MatInputModule,
NavbarComponent,
FooterComponent,
MatDialogModule







6. Define a form group in the Create component, and use it to send data to the database.

```
createform:FormGroup=new FormGroup({
  coursename: new FormControl('',Validators.required),
  price:new FormControl('',Validators.required),
  startdate:new FormControl('',Validators.required),
  enddate:new FormControl('',Validators.required),
  imagename:new FormControl()
})
```



7. Add the template form in the HTML file for Create component.





```
<mat-form-field class="example-full-width" appearance="fill">
 <mat-label>Start Date </mat-label>
 <input type="date" matInput formControlName="startdate">
 <mat-error *ngIf="createform.controls['startdate'].hasError('required')">
   Start Date is <strong>required</strong>
 </mat-error>
  </mat-form-field>
  <br>
 <mat-form-field class="example-full-width" appearance="fill">
 <mat-label>End Date </mat-label>
 <input type="date" matInput formControlName="enddate">
 <mat-error *ngIf="createform.controls['enddate'].hasError('required')">
  End Date is <strong>required</strong>
 </mat-error>
</mat-form-field>
<br>
</form>
```



8. Create a function in the home service.

```
createCourse(body:any){
 //show spinner
 this.spinner.show();
 //hits Api (create function)
 debugger
 this.http.post('https://localhost:44320/api/course',body).subscribe((resp:any)=>{
   //hide spinner
   this.spinner.hide();
   //resp --> toastr
   this.toastr.success('Created Successfully ');
  },err=>{
   //hide spinner
   this.spinner.hide;
   //resp --> toastr
   this.toastr.error(err.message , err.status)
 })}
```



9. Create a function in the Create component to call a created course function from home services.

```
saveCourse(){
  debugger
  this.home.createCourse(this.createform.value);
}
```



10. Add a button in the HTML file of the Create component to call a seveCourse function.

```
<mat-dialog-actions align="end">
   <button mat-button mat-dialog-close>Cancel</button>
   <button mat-button (click)="saveCourse()"[mat-dialog-close]="true"
   cdkFocusInitial>Save</button>
   </mat-dialog-actions>
```



11. Add a button in the HTML file of the Manage course component to open the create dialog .

```
<button class="btn btn-success" (click)="openDialog()">
Create new Courses </button>
```

And in the typescript file for this component create an object of MatDialog Service to use an open method from this service.



So, In managecourse.component.ts

```
constructor(private dialog :MatDialog) { }
openDialog() {
   const dialogRef = this.dialog.open(CreateComponent);
}
```

Note: The open function receives in the Parmenter the name of loaded

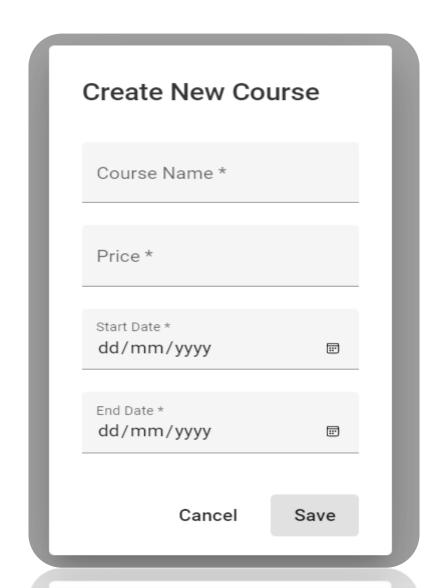


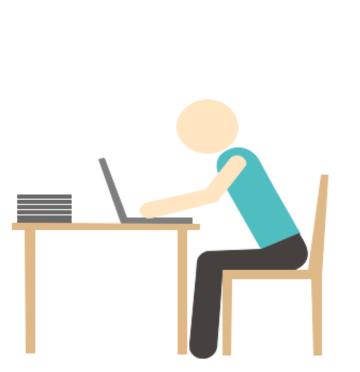




The Result







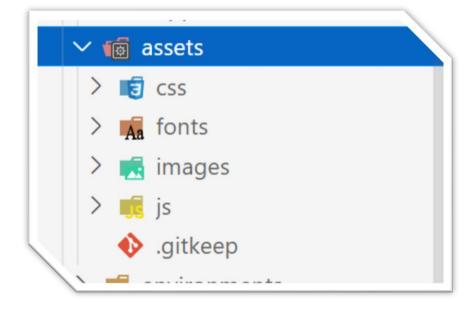








Step one: Create a folder called images in the assets folder.

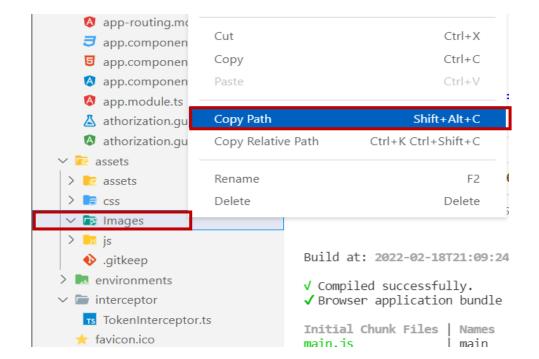








Step two: Copy the path of the image folder.





Step three: Update the API project => Course Controller => UploadImage method

Paste the copied path as the following:

```
var file = Request.Form.Files[0];
var fileName = Guid.NewGuid().ToString() + "_" + file.FileName;
var fullPath = Path.Combine("C:\\Users\\d.kanaan.ext\\Desktop\\EduTech\\src\\assets\\images", fileName);
```

Step four: Define property display_image and Create a function in the home service to hits API for the upload function.

display_image:any

Step five: In the HTML file for the Create component add the following to create a form

```
<div class="example-container">
  <input type="file" #file formControlName="imagename"
  (change)="uploadFile(file.files)">
  </div>
```

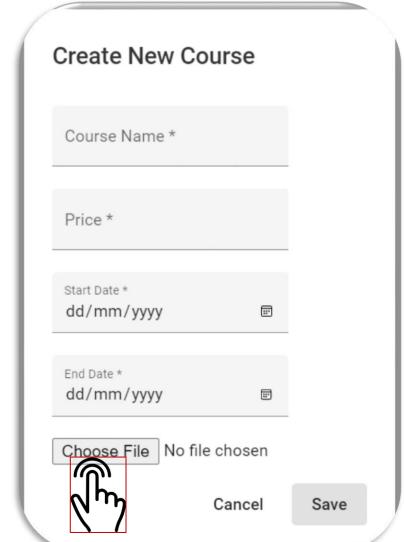
Step six: Implement the UploadFile function in the typescript of Create component.

```
uploadFile(files:any) {
  if (files.length === 0) {
    return;
  }
  let fileToUpload = <File>files[0];
  const formData = new FormData();
  formData.append('file', fileToUpload, fileToUpload.name);
  this.home.uploadAttachment(formData);
  }
}
```





The Result



To retrieve the image, In course-card component .html add this code.

References

[1] Angular, "Angular," Angular.io, 2019. https://angular.io/

[2] "Complete Angular Tutorial For Beginners," *TekTutorialsHub*. https://www.tektutorialshub.com/angular-tutorial/

[3]"npm | build amazing things," Npmjs.com, 2019. https://www.npmjs.com/

[4]"Angular Tutorial for Beginners | Simplilearn," *Simplilearn.com*. https://www.simplilearn.com/tutorials/angular-tutorial (accessed Aug. 19, 2022).







