

Angular file on click

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File upload on button (click in angular 6). How to download pdf file on button click in angular. Open file browser on button click angular. Angular download file on click. How to detect when cancel is clicked on file input angular. Upload file on button click angular. How to open pdf file on button click in angular. Angular download file on click stackblitz.

The modern webdeveloper's platform Welcome to our Angular File Upload Tutorial. We often need to upload files to our servers from web clients. This could be profile pictures, documents, or any other files. Today we'll look at how we can do that using Angular. Sending files to the server usually involves sending an HTTP POST multipart request. In a multipart request, the Content-Type header is set to multipart/form-data, and files are delimited by optional boundary parameters. The actual file is sent as a binary block of data. This is slightly different than a regular REST post requests where the Content-Type header is usually set to application/json. So let's dive into the code, we're starting with a blank angular project with bootstrap for styling. Import the HttpModule in app.module.ts We'll need the following imports in the App Module for the next steps to work. @NgModule({ declarations: [AppComponent], imports: [BrowserModule, AppRoutingModule, FormsModule, // required for input file change detection ReactiveFormsModule, HttpClientModule, // this is required for the actual http request], providers: [], bootstrap: [AppComponent] }) export class AppModule { } Make upload button and change event in app.component.html Upload file example Upload We need to pass the (change) event to our ts file so we can get the file content. Actual upload is triggered by the upload button in this example, but it's up to your application logic. Detect file change in angular In Angular, it's considered a best practice to offload network-related operations to another service. So in the app component, we merely wait for the upload button click, and forward the selected file to the upload service. app.component.ts import { UploadService } from './upload.service'; import { Component } from '@angular/core'; @Component({ selector: 'app-root', templateUrl: './app.component.html', styleUrls: ['./app.component.css'] }) export class AppComponent { file: File = null; constructor(private uploadService: UploadService){ } onFilechange(event: any) { console.log(event.target.files[0]) this.file = event.target.files[0] } upload() { if (this.file) { this.uploadService.uploadfile(this.file).subscribe(resp => { alert("Uploaded") }) } else { alert("Please select a file first") } } } Create a service for the network calls This service actually takes care of the upload process. upload.service.ts import { HttpClient } from '@angular/common/http'; import { Injectable } from '@angular/core'; @Injectable({ providedIn: 'root' }) export class UploadService { constructor(private httpClient: HttpClient,) { } public uploadfile(file: File) { let formParams = new FormData(); formParams.append('file', file) return this.httpClient.post(' ', formParams) } } Here, we're making a post request to our backend operating on to the path of /uploadFile path. FormData is not an angular-specific component, it represents an HTTP form submission in vanilla Js also. The Angular HttpClient accepts this as a valid argument for the body of the HTTP request. As you see, this creates a multipart request with our file in the body. You can see how to receive and parse the file from the body of the request on a NodeJs server running expressJs in our NodeJs tutorial. Read More – We will know that how to create a functional Angular file upload component that requires a file of a given extension to be uploaded and sends the file to the backend via an HTTP POST call. The custom component will have an upload loading indicator and will support upload cancellation. We will give an example (in Node) of handling a file in the backend. How to Upload Files to the Browser To create an Angular file upload component, we first need to understand how to upload files in plain HTML and JavaScript and take it from there. The main component for uploading files to the browser is a plain HTML input of the file type: This input will allow the user to open the browser file selection dialog and select one or more files (by default). Here's what the input looks like: You can select a file from file input box, and then with a little JavaScript, you can send it to the backend. Why don't we see file input often? The problem with this plain file input is that it's very hard to style by default. Some applied styles can't be changed, and we can't even change the text on the button! It is the default browser behavior that cannot be changed and is the reason why we don't see this plain file input on the interfaces we use daily, like Gmail, etc. Because it is impossible to style this file input properly, the most common option is never to show it to the end-user. How does the input of type file work? When the user selects a file using the file upload dialog, an event of type The change will be emitted. The event will then contain the list of files the user has selected on the target. Here is the output we see on the console after the user selects the file: { lastModified: 1601984029839 lastModifiedDate: Tue Oct 06 2020 13:33:49 GMT+0200 (Central European Summer Time) name: "angular-forms-course-small.jpg" size: 56411 type: "image/jpeg" webkitRelativePath: "" } When the change event is triggered, the browser's file is not automatically uploaded to the backend. Instead, we'll need to trigger an HTTP request ourselves in response to the change event. Creating the User Interface of the File Upload Component It is impossible to properly style a plain input of a file, we hide it from the user and then build an alternate file upload UI that uses the file input behind the scenes. Template for the initial file upload component: {{fileName || 'No file uploaded yet.'}} attach file The user interface is divided into two different parts. At the top, we have a plain file input, which is used to open the file upload dialog and handle the change event. This plain input text is hidden from the user, as we can see in the component CSS: file-input { display: none; } ... We have the file-upload container div, which contains the actual UI that the user can see on the screen. For example, we built this UI with Angular Material components, but of course, the optional file upload UI can take any form you like. This UI can be a dialog, a drag and drop zone, or, as in the case of our component, simply a styled button: Notice in the component template how the upload blue button and the invisible file input are connected. When the user clicks the blue button, a click handler triggers the file input via fileUpload.click(). The user would then select a file from the file upload dialog, and the change event would be triggered and handled by onFileSelected(). Uploading file to backend using Angular HTTP client Now let's take a look at our component class and implementation onFileSelected(): @Component({ selector: 'file-upload', templateUrl: "file-upload.component.html", styleUrls: ["file-upload.component.scss"] }) export class FileUploadComponent { fileName = ""; constructor(private http: HttpClient) { } onFileSelected(event) { const file:File = event.target.files[0]; if (file) { this.fileName = file.name; const formData = new FormData(); formData.append("thumbnail", file); const upload\$ = this.http.post("/api/thumbnail-upload", formData); upload\$.subscribe(); } } } We are getting a reference to the files that the user has selected by accessing events. Target. Files property. Then we create the form payload using the FormData API. It is a standard browser API and is not Angular-specific. We use the Angular HTTP client to make HTTP requests and send the file to the backend. At this point, we will already have a working file upload component. How to display file upload progress indicator We are adding a few more elements to the UI of our file upload component. Here is the file upload component template: {{fileName || "No file uploaded yet."}} attach file delete forever The two main elements we've added to the UI are: An Angular Material progress bar, which is visible only when the file upload is still in progress. An Upload Cancel button, also visible only if an upload is still in progress How do you know how much file has been uploaded? We implement the progress indicator by using the report progress feature of the Angular HTTP client. With this feature, we can get notified of the progress of file uploads through multiple events emitted by HTTP Observables. To see this in action, let's take a look at the final version of the FileUpload component class, which has all its features implemented: @Component({ selector: 'file-upload', templateUrl: "file-upload.component.html", styleUrls: ["file-upload.component.scss"] }) export class FileUploadComponent { @Input() requiredFileType:string; fileName = ""; uploadProgress:number; uploadSub: Subscription; constructor(private http: HttpClient) { } onFileSelected(event) { const file:File = event.target.files[0]; if (file) { this.fileName = file.name; const formData = new FormData(); formData.append("thumbnail", file); const upload\$ = this.http.post("/api/thumbnail-upload", formData, { reportProgress: true, observe: 'events' }).pipe(finalize(() => this.reset())); this.uploadSub = upload\$.subscribe(event => { if (event.type == HttpEventType.UploadProgress) { this.uploadProgress = Math.round(100 * (event.loaded / event.total)); } }) } cancelUpload() { this.uploadSub.unsubscribe(); this.reset(); } reset() { this.uploadProgress = null; this.uploadSub = null; } } As we can see, we have set the ReportProgress property to true in our HTTP call, and we have also set the Overview property in the Value event. We will receive an event object reporting the progress of the HTTP request. These events will be emitted as the value of http\$observable and come in different types: Upload Progress type events report the percentage of a file that has already been uploaded. Events of the type Feedback report that the upload is complete By using events of type UploadProgress, we are saving the ongoing upload percentage in a member variable UploadProgress, which we use to update the value of the progress indicator bar. When the upload completes or fails, we need to hide the progress bar from the user. We can be sure to do this by using the RxJs finalize operator, which will call the reset() method in both cases: upload success or failure. How to cancel an ongoing file upload To support file upload cancellation, we must refer to the RxJs subscription object when the http\$observable is subscribed. In our component, we store this membership object in the uploadSub member variable. While the upload is still in progress, the user can cancel it by clicking the Cancel button. Then the cancelUpload() upload method is invoked, and the HTTP request can be canceled by unsubscribing from the UploadSub subscription. Canceling this subscription will immediately cancel the ongoing file upload. How to accept certain type of files In the final version of our file upload component, we can require the user to upload a certain type of file using the required file type property: This property is passed to the file input's accept property in the file upload template, forcing the user to select a PNG file from the file upload dialog. How to Upload Multiple Files The browser file selection dialog will allow the user to select only one file to upload by default. But by using the Multiple properties, we can allow the user to select multiple files: Note that this will require a complete different UI than the one we created. A style upload button with a progress indicator works well for uploads of only one file. For a multi-file upload scenario, various UIs can be created: a floating dialog with the upload progress of all files, etc. Handling uploaded file on node backend. The way you handle an uploaded file in your backend depends on the technology you use, but let's give a quick example of how to do it using the Node and Express frameworks. We need to install the express-fileupload package first. Then we can add this package as middleware to our express application: const fileupload = require('express-fileupload'); const app: application = express(); app.use(fileupload()); We have to do is define an express route to handle file upload requests: app.route('/api/thumbnail upload).post(onFileupload); export function onFileupload(req:Request, res: Response) { let file = req['files'].thumbnail; console.log("File uploaded: ", file.name); ... } The best way to handle file uploads in Angular is to build one or more custom components based on the supported upload scenarios. The file upload component must contain an HTML input type file that allows users to select one or more files from the file system. This file input is hidden from the user as it is not stylable and should be replaced by a more user-friendly UI. By using the file input in the background, we can refer to the file through the change event, which we can then use to make an HTTP request and send the file to the backend. 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