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In this session we will learn

- Angular Reactive Forms Tutorial

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We'll create a form in Angular using FormGroup & FormBuilder Reactive form API. {{subjectsArray.name}} cancel Head over to app.component.ts file and add the given below code.
`import { Component, ViewChild } from '@angular/core'; import { COMMA, ENTER } from '@angular/cdk/keycodes'; import { MatChipInputEvent } from '@angular/material/chips'; import { FormGroup, FormBuilder, Validators } from '@angular/forms'; export interface Subject { name: string; } @Component({ selector: 'app-root', templateUrl: './app.component.html', styleUrls: ['./app.component.css'] }) export class AppComponent { visible = true; selectable = true; removable = true; addOnBlur = true; myForm: FormGroup; @ViewChild('chipList', { static: true }) chipList; GradeArray: any = ['8th Grade', '9th Grade', '10th Grade', '11th Grade', '12th Grade']; SubjectsArray: Subject[] = []; readonly separatorKeysCodes: number[] = [ENTER, COMMA]; constructor(public fb: FormBuilder) { } ngOnInit(): void { this.reactiveForm() } reactiveForm() { this.myForm = this.fb.group({ name: ['', Validators.required], email: ['', [Validators.required]], gender: ['Male'], dob: ['', [Validators.required]], grade: [''], subjects: [this.SubjectsArray] }) date(e) { var convertDate = new Date(e.target.value).toISOString().substring(0, 10); this.myForm.get('dob').setValue(convertDate, { onlyself: true }) } add(event: MatChipInputEvent): void { const input = event.input; const value = event.value; if ((value || '').trim() && this.SubjectsArray.length < 5) { this.SubjectsArray.push({ name: value.trim() }) } if (input) { input.value = ''; } } remove(subject: Subject): void { const index = this.SubjectsArray.indexOf(subject); if (index >= 0) { this.SubjectsArray.splice(index, 1); } } public errorHandler = (control: string, error: string) => { return this.myForm.controls[control].hasError(error); } submitForm() { console.log(this.myForm.value) } } Finally, we've completed Angular 12 Reactive Forms Validation tutorial. import { BrowserModuleAnimationsModule } from '@angular/platform-browser/animations'; import { AngularMaterialModule } from './material.module'; import { NgModule, CUSTOM_ELEMENTS_SCHEMA } from '@angular/core'; @NgModule({ declarations: [...], imports: [BrowserModuleAnimationsModule, AngularMaterialModule,], providers: [...], bootstrap: [...], schemas: [CUSTOM_ELEMENTS_SCHEMA] }) export class AppModule { } Now we'll add Angular material 8 theme and Angular material icons in our project. Go to src > index.html file and add the following code in the head section. Go to src > styles.css file and add the following code. @import '~@angular/material/prebuilt-themes/indigo-pink.css'; html, body { height: 100%; } body { margin: 0; font-family: Roboto, 'Helvetica Neue', sans-serif; } form { width: 420px; margin: 35px auto 100px; display: block; float: none; } .mat-form-field { width: 100%; } .misc-bottom-padding { margin: 8px 0 20px; } .misc-bottom-padding mat-label { margin-right: 15px; } .mat-radio-label { margin: 0 15px 0 0; } .title-center { margin: 0 auto; } .button-wrapper { margin-top: 10px; } We are going to create a form using Angular material 8 UI components. Angular material offers lots of beautiful components we'll be using Angular material library's forms component to create and validate Reactive forms. To dynamically manage the select dropdown value, We'll take help of reactive forms. Go to app.component.html file and add the following code. {{gradeArray}} Go to app.component.ts file and add the following code. export class AppComponent { GradeArray: any = ['8th Grade', '9th Grade', '10th Grade', '11th Grade', '12th Grade']; constructor(public fb: FormBuilder) { } ngOnInit(): void { this.reactiveForm() } reactiveForm() { this.myForm = this.fb.group({ grade: [''] }) } } In final step, We'll learn to create multiple form values in a single form field and save them in an array using Angular material input chips and Angular material reactive forms. Head over to app.component.html file and add the given below code. To create reactive forms demo, We'll be using Angular material ui library. Choose a prebuilt theme name, or "custom" for a custom theme: Indigo/Pink > Indigo/Pink [Preview: ?theme=indigo-pink] Deep Purple/Amber [Preview: ?theme=deeppurple-amber] Pink/Blue Grey [Preview: ?theme=pink-bluegrey] Purple/Green [Preview: ?theme=purple-green] Select yes and hit enter. I'll create a separate function which will handle the errors emitted by reactive forms. Go to your app.component.ts file and add the following function to handle errors. import { FormGroup, FormBuilder, Validators } from '@angular/forms'; reactiveForm() { this.myForm = this.fb.group({ name: ['', [Validators.required]], email: ['', [Validators.required]], gender: ['Male'], dob: ['', [Validators.required]], grade: [''], subjects: [this.SubjectsArray] }) } Go to your app.component.html file and add the angular material form control errors something like this. You must provide aname We'll look at how to work with select dropdown in Angular 12 in this part of the tutorial. Create material.module.ts file in app folder and paste the below code. import { NgModule } from '@angular/core'; import { CommonModule } from '@angular/common'; import { MatBadgeModule } from '@angular/material/badge'; import { MatButtonModule } from '@angular/material/button'; import { MatChipsModule } from '@angular/material/chips'; import { MatNativeDateModule } from '@angular/material/core'; import { MatDatepickerModule } from '@angular/material/datepicker'; import { MatFormFieldModule } from '@angular/material/form-field'; import { MatGridListModule } from '@angular/material/grid-list'; import { MatIconModule } from '@angular/material/icon'; import { MatInputModule } from '@angular/material/input'; import { MatListModule } from '@angular/material/list'; import { MatPaginatorModule } from '@angular/material/paginator'; import { MatRadioModule } from '@angular/material/radio'; import { MatSelectModule } from '@angular/material/select'; import { MatSidenavModule } from '@angular/material/sidenav'; import { MatTableModule } from '@angular/material/table'; import { MatToolbarModule } from '@angular/material/toolbar'; import { MatTooltipModule } from '@angular/material/tooltip'; @NgModule({ imports: [CommonModule, MatButtonModule, MatToolbarModule, MatIconModule, MatSidenavModule, MatBadgeModule, MatListModule, MatGridListModule, MatFormFieldModule, MatInputModule, MatSelectModule, MatRadioModule, MatDatepickerModule, MatNativeDateModule, MatChipsModule, MatTooltipModule, MatTableModule, MatPaginatorModule], exports: [MatButtonModule, MatToolbarModule, MatIconModule, MatSidenavModule, MatBadgeModule, MatListModule, MatGridListModule, MatInputModule, MatFormFieldModule, MatSelectModule, MatRadioModule, MatDatepickerModule, MatChipsModule, MatTooltipModule, MatTableModule, MatPaginatorModule], providers: [MatDatepickerModule,] }) export class AngularMaterialModule { } Then go to app.module.ts file and paste the following code to enable material.module.ts in Angular app. Run the cmd to setup Angular material library. ng add @angular/material Select the Angular material theme from the options: ? To style Reactive forms we will use Angular material form controls components. Go to app.component.html file and add the following code. Gender: Male Female Grade {{gradeArray}} {{subjectsArray.name}} cancel Submit Go to app.component.ts file and add the following code. import { Component, ViewChild } from '@angular/core'; import { COMMA, ENTER } from '@angular/cdk/keycodes'; import { MatChipInputEvent } from '@angular/material/chips'; import { FormGroup, FormBuilder } from '@angular/forms'; export interface Subject { name: string; } @Component({ selector: 'app-root', templateUrl: './app.component.html', styleUrls: ['./app.component.css'] }) export class AppComponent { visible = true; selectable = true; removable = true; addOnBlur = true; myForm: FormGroup; @ViewChild('chipList', { static: true }) chipList; GradeArray: any = ['8th Grade', '9th Grade', '10th Grade', '11th Grade', '12th Grade']; SubjectsArray: Subject[] = []; readonly separatorKeysCodes: number[] = [ENTER, COMMA]; constructor(public fb: FormBuilder) { } ngOnInit(): void { this.reactiveForm() } reactiveForm() { this.myForm = this.fb.group({ name: ['', [Validators.required]], email: ['', [Validators.required]], gender: ['Male'], dob: ['', [Validators.required]], grade: [''], subjects: [this.SubjectsArray] }) } date(e) { var convertDate = new Date(e.target.value).toISOString().substring(0, 10); this.myForm.get('dob').setValue(convertDate, { onlyself: true }) } add(event: MatChipInputEvent): void { const input = event.input; const value = event.value; if ((value || '').trim() && this.SubjectsArray.length < 5) { this.SubjectsArray.push({ name: value.trim() }) } if (input) { input.value = ''; } } remove(subject: Subject): void { const index = this.SubjectsArray.indexOf(subject); if (index >= 0) { this.SubjectsArray.splice(index, 1); } } submitForm() { console.log(this.myForm.value) } } In next step, we will learn how to validate Reactive forms using Angular material 8. We'll create select dropdown using angular material forms component. I hope this tutorial will help you out, please check out the GitHub repo if you find any difficulty in this tutorial.`

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