NGX TinyMCE Integration

A short guide to integrating tinymce in an Angular Application



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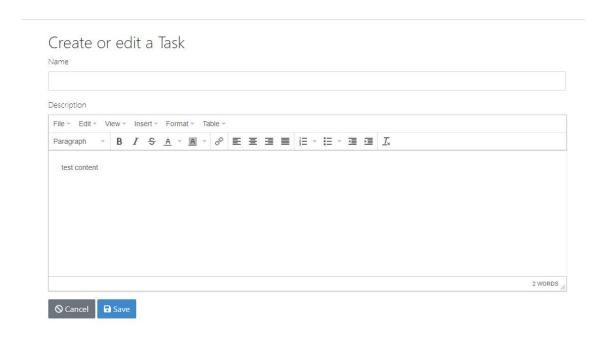
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INTRODUCTION

In this guide, I will show you how to integrate tinymce editor in an angular application. The application will be created using the popular Spring Boot Framework generated by JHipster.

FINAL

Here is what we will be building.



Component Versions

- 1. JHipster Application 6.4.1
- 2. Angular 8
- 3. TinyMCE 4.9.0
- 4. NGX-TinyMCE 9.0.0

PROCEDURE

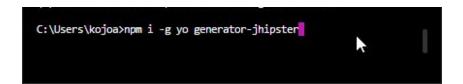
- 1. Generate your JHipster Application
- 2. NPM install TinyMCE 4.9.0
- 3. NPM install NGX-TinyMCE 9.0.0
- 4. Create Editor Widget
- 5. Inject Editor Widget in an Entity

Generate a JHipster Application

- Navigate to the folder where you want to create your application
 - Mine is in D:\workspace\tinymce-demo-app



- JHipster is a Yeoman scaffolding generator so yo and generator-jhipster are required.
 - o npm i -g yo generator-jhipster



• Create the application by the simple command jhipster



This will finally generate a fully functional application based on the spring boot framework. Find out more about this wonderful project at https://jhipster.tech

NPM install TinyMCE 4.9.0

• Install tinymce from npm with:

npm i -S tinymce@4.9.0

• Copy tinymce from node_modules.

cp -r node_modules\tinymce src\main\webapp\content\.
This step is only necessary if you have to serve tinymce yourself.

The alternative is to use the public cdn.

NPM install NGX-TinyMCE 9.0.0

• Install ngx-tinymce from npm with:

npm i -S ngx-tinymce@9.0.0

Create Editor Widget

- Create a widget module with:
 - o Navigate to the shared folder

cd src\main\webapp\app\shared

 Generate the Component. Skip import to avoid adding the component to the Shared modules.

ng g component EditorWidget --skipImport=true

o Generate the Module

ng g module EditorWidget

• Configure NgxTinyMceModule in EditorWidgetModule as follows:

• Configure the EditorWidgetComponent HTML

```
<tinymce [(ngModel)]="content" [config]="config" (ready)="onReady($event)"></tinymce>
```

Configure the EditorWidgetComponent Typescript

```
import {    Component, OnInit, Input, Output, EventEmitter } from '@angular/core';
@Component({
templateUrl: './editor-widget.component.html'})
export class EditorWidgetComponent implements OnInit {
 @Input() content: string;
 @Input() config: any;
 @Output() onDataChanged = new EventEmitter<any>();
 @Output() onDataBlur = new EventEmitter<any>();
 @Output() onKeyup = new EventEmitter<any>();
 editor: any;
constructor() {
 this.config = {
    height: 250,
   theme: 'modern',
   plugins: 'print preview fullpage searchreplace autolink directionality visualblocks visualchars fullscreen
image imagetools link media template codesample table charmap hr pagebreak nonbreaking anchor
insertdatetime advlist lists textcolor wordcount contextmenu colorpicker textpattern',
   toolbar: 'formatselect | bold italic strikethrough forecolor backcolor | link | alignleft aligncenter alignright
alignjustify | numlist bullist outdent indent | removeformat',
    image_advtab: true,
    imagetools_toolbar: 'rotateleft rotateright | flipv fliph | editimage imageoptions',
   templates: [
     { title: 'Test template 1', content: 'Test 1' },
     { title: 'Test template 2', content: 'Test 2' }
    content_css: [
     '//fonts.googleapis.com/css?family=Lato:300,300i,400,400i',
   style_formats_merge: true,
   branding: false,
   setup: (editor: any) => this.setup(editor),
ngOnInit() {
 if (!this.content) {
    this.content = 'test content';
onReady() {
  console.log('editor ready!');
private setup(editor: { on: (arg0: string, arg1: { (): void; (): void; (): void }) => void; getContent: () => string }) {
 this.editor = editor;
   this.content = editor.getContent();
   this.onDataBlur.emit(this.content);
 editor.on('keyup', () => {
   this.content = editor.getContent();
    this.onKeyup.emit(this.content);
 editor.on('change', () => {
   this.content = editor.getContent();
    this.onDataChanged.emit(this.content);
```

USAGE

To use the widget, create an entity and inject the editor widget into it to see it displayed. Here are the steps we shall take.

- 1. Create an entity with some attributes in JHipster
- 2. Inject the EditorWidget
- 3. View the entity on the client

Create a JHipster Entity

JHipster provides the entity API for creating an Entity. Let's create a Task entity.

jhipster entity Task

```
jhipster
D:\workspace\tinymce-demo-app>jhipster entity Task
INFO! Using JHipster version installed locally in current project's node_modules
INFO! Executing jhipster:entity Task
INFO! Options: from-cli: true
The entity Task is being created.
                                                                          K
Generating field #1
   Do you want to add a field to your entity? Yes
   What is the name of your field? name
What is the type of your field? String
Do you want to add validation rules to your field? No
         (String)
 Generating field #2
   Do you want to add a field to your entity? Yes What is the name of your field? description What is the type of your field? String
Do you want to add validation rules to your field? No
Fields
         is
(String)
ription (String)
Generating field #3
   Do you want to add a field to your entity? Yes
   What is the name of your field? createdDate
What is the type of your field? Instant
Do you want to add validation rules to your field? No
Fields
          (String)
ription (String)
tedDate (Instant)
Generating field #4
 ? Do you want to add a field to your entity? Yes
? What is the name of your field? modifiedDate
? What is the type of your field? Instant
? Do you want to add validation rules to your field? No
         (String)
ription (String)
tedDate (Instant)
                         (Instant)
Generating field #5
 ? Do you want to add a field to your entity? Yes
? What is the name of your field? lastModifiedBy
```

Answer the questions at the API prompt by providing attribute names and selecting types.

Inject the EditorWidget

Open your webapp code and navigate to:

• src/main/webapp/app/entities/task/task.module.ts

• src/main/webapp/app/entities/task/task-update.component.html

Here we replace the input tag below

```
<input type="text" class="form-control" name="description" id="field_description"
[(ngModel)]="task.description" />
```

with the widget tag that follows.

```
<jhi-editor-widget [theme]="'modern'" [content]="task.description"
(onDataChanged)="setContentChanged($event)"></jhi-editor-widget>
```

• src/main/webapp/app/entities/task/task-update.component.ts

Here we define the function setContentChanged(data: any) as follows

```
protected setContentChanged(data: string): void {
   this.task.description = data;
}
```

View the Entity

• Execute the JHipster maven/gradle build and run in own window

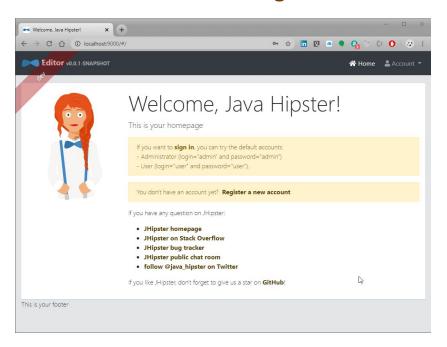
./mvnw

• Execute npm start in another

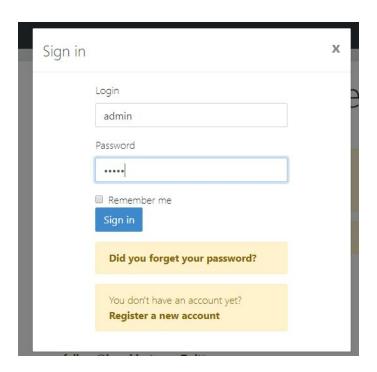
npm start

• A successful execution opens the browser with a welcome page.

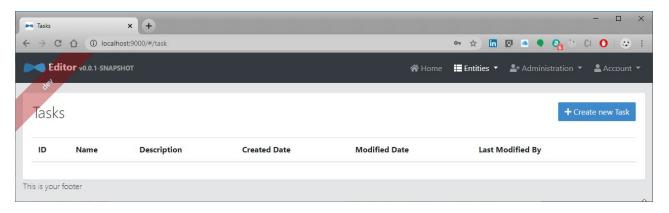
Welcome Page



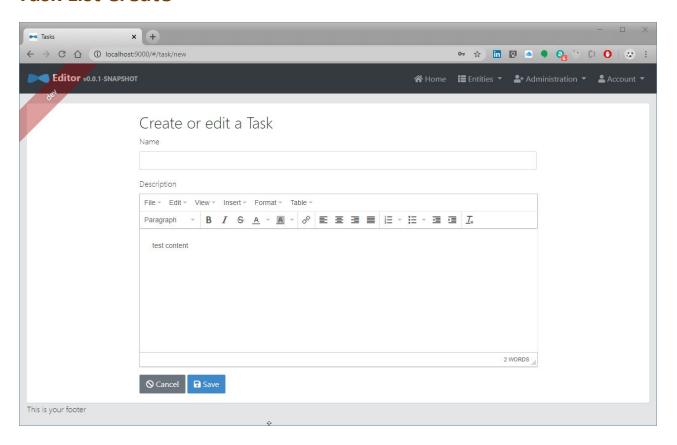
Login Page



Task List Page



Task List Create



CONCLUSION

Find this demo project on github:

https://github.com/jojoaddison/tinymce-demo-app

I would like to read your feedback and how you use this app.

REFERENCES

- 1. JHipster https://www.jhipster.tech
- 2. NGX-TinyMCE https://cipchk.github.io/ngx-tinymce/
- 3. TinyMCE https://github.com/tinymce/tinymce