# Text Editor using Angular JS

Name: M Badri Narayanan

**Reg No:** 185002018

Semester: VI Exercise Number: 8

**Date:** April 6, 2021

#### Aim

To create a text editor using AngularJS.

#### Procedure

- Import angular js script.
- Have options such as cut, copy, paste and new, open, save in a dropdown navigation bar.
- On clicking these buttons, their respective functions are called angular controller using ng-click.
- Below this is an area given where text is to be entered.
- For cut function the string in the text area is copied to the clipboard and replaced by an empty string in the text area.
- For copy function the string selected is copied in to the clipboard.
- For paste function the string in the clipboard is pasted on the text area.
- For save function, the data in the text area is stored as a plaintext file with the provided name.

#### Code

```
<!DOCTYPE html>
<html>
<head>
        <title> Text Editor </title>
        <script

→ src="https://cdnjs.cloudflare.com/ajax/libs/angular.js/1.8.2/angular.js"></script>
        <style type="text/css">
                .dropbtn
                {
                        background-color: #4CAF50;
                        color: white;
                        padding: 16px;
                        font-size: 16px;
                        border: none;
                        cursor: pointer;
                }
                .dropdown
                {
```

```
position: relative;
                display: inline-block;
               .dropdown-content
                display: none;
                position: absolute;
                background-color: #f9f9f9;
                min-width: 160px;
                box-shadow: 0px 8px 16px 0px rgba(0,0,0,0.2);
                 z-index: 1;
              }
               /* Links inside the dropdown */
               .dropdown-content a
               {
                color: black;
                padding: 12px 16px;
                text-decoration: none;
                display: block;
               /* Change color of dropdown links on hover */
               .dropdown-content a:hover
               {
                      background-color: #f1f1f1
               }
               /* Show the dropdown menu on hover */
               .dropdown:hover .dropdown-content
               {
                 display: block;
              }
       </style>
</head>
<body ng-controller = "app" ng-app = "myapp">
       <div style="display: flex; text-align: center; align-items: center; flex-flow:</pre>

    column;">

               <div style="width: 500px">
                               <h3> All Files</h3>
               </div>
                 <span style="float:left;"> {{

    x.fileName }}
                                                  </span>
                          <button style = "float:right" ng-click = "x.show =</pre>
                          → toggle(x.show); x.text = toggle2(x.text); save(); " >
                          \rightarrow {{ x.text }} </button>
                              <button style = "float:right"</pre>
                              → ng-click="downloadFile(x.fileName, x.data); "
                              → >Download </button>
                              <button style = "float:right" ng-click="open(x.data,</pre>

    x.fileName); " >Open</button>

                         <textarea ng-hide = "x.show" style=" height: 300px;

    width: 500px; " ng-model = "x.data" readonly="true">

                       <div style="width: 500px;">
```

```
<button class="dropbtn">File</button>
                     <div class="dropdown-content">
                         <a href="#" ng-click = "upload_show=false;</pre>
                         → newfile_show = true; newFileName ='';
                         → newFileData='' ">New</a>
                         <a href="#" ng-click =
                         <a href="#" ng-click = "upload_show=true;</pre>
                         → newfile_show = false; ">Upload</a>
          </div>
              </span>
              <span class = "dropdown" style="float: left;">
                     <button class="dropbtn">Edit</button>
                     <div class="dropdown-content">
                         <a href="#" onclick = "cutit()">Cut</a>
                         <a href="#" onclick = "copyit()">Copy</a>
                         <a href="#" ng-click="pasteit()">Paste</a>
          </div>
              </span>
              <div class = "upload_cont" ng-show = "upload_show">
                     <h3> Upload File </h3>
                     Upload : 
                                    <input type="file"

    id="fileToLoad">

                                    = =
                                    → ">Open</button></
                             </div>
              <div class ="newFile" ng-show = "newfile_show">
                     <h3> Create New File </h3>
                     <form>
                             <div style="text-align: left;"> File Name :
                             <br>
                             <textarea class="js-cuttextarea" ng-model =</pre>
                             → "newFileData" style="padding:0px; height:

→ 200px; width: 500px;" placeholder="Enter
                             → Text">
                             </textarea>
                     </form>
              </div>
       </div>
</div>
<script type="text/javascript">
       var cutTextareaBtn = document.querySelector('.js-textareacutbtn');
       function cutit()
        var cutTextarea = document.querySelector('.js-cuttextarea');
          var successful = document.execCommand('cut');
          var msg = successful ? 'successful' : 'unsuccessful';
          console.log('Cutting text command was ' + msg);
```

<span class = "dropdown" style="float: left;">

```
}
function copyit()
        var cutTextarea = document.querySelector('.js-cuttextarea');
    var successful = document.execCommand('copy');
    var msg = successful ? 'successful' : 'unsuccessful';
    console.log('Cutting text command was ' + msg);
}
angular.module("myapp",[]).controller('app', function($scope)
        $scope.list = JSON.parse(localStorage.getItem('Array'));
        if($scope.list==null)
        {
                $scope.list = [];
        }
        $scope.pasteit = function()
        {
                var cutTextarea =

→ document.querySelector('.js-cuttextarea');
                navigator.clipboard.readText().then(

    function(clipText)

                {
                          prev = "";
                          if(cutTextarea.selectionStart!=0)
                                  prev =
                                   \  \, \hookrightarrow \  \, \text{cutTextarea.value.substring(0,}

    cutTextarea.selectionStart);
                          next = "";
                                                               if(cutTextarea.selectie)
                                  next =

    cutTextarea.value.length);
                          console.log(prev+ clipText +next);
                         console.log("Clip :" + clipText);
                         cutTextarea.value = prev + clipText + next;
                         $scope.newFileData = cutTextarea.value;
                         $scope.$apply();
                  });
        $scope.loadFileAsText = function()
                let fileToLoad =
                → document.getElementById("fileToLoad").files[0];
                let fileReader = new FileReader();
                let new_obj =
                {
                        fileName : fileToLoad.name,
                        data :"",
                        show : true,
                        text : "Show"
                }:
                fileReader.onload = function(fileLoadedEvent)
                        let textFromFileLoaded =

→ fileLoadedEvent.target.result;

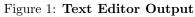
                        new_obj.data = textFromFileLoaded;
                        $scope.upload_show = false;
                        $scope.newfile_show = true;
```

```
$scope.newFileData = new_obj.data;
               $scope.newFileName = new_obj.fileName;
               $scope.$apply();
               console.log(new_obj);
       fileReader.readAsText(fileToLoad, "UTF-8");
$scope.Save = function(fileName, fileData)
{
       if(fileName==null)
       {
               alert("Enter File Name");
               return false;
       let new_obj =
       {
               fileName : fileName,
               data : fileData,
               show : true,
               text : "Show"
       };
       $scope.list.push(new_obj);
               save();
       $scope.$apply();
$scope.open = function(fileName,data)
       $scope.upload_show = false;
       $scope.newfile_show = true;
       $scope.newFileData = fileName;
       $scope.newFileName = data;
}
$scope.downloadFile = function(fileName,data)
       var textToSaveAsBlob = new Blob([data],
        var textToSaveAsURL =
        var fileNameToSaveAs = fileName;
       var downloadLink = document.createElement("a");
       downloadLink.download = fileNameToSaveAs;
       downloadLink.innerHTML = "Download File";
       downloadLink.href = textToSaveAsURL;
       downloadLink.style.display = "none";
       downloadLink.click();
}
$scope.save = function()
{
       localStorage.setItem("Array",

   JSON.stringify($scope.list));
}
save = function()
{
       localStorage.setItem("Array",

→ JSON.stringify($scope.list));
$scope.toggle = function(x)
{
```

## Output



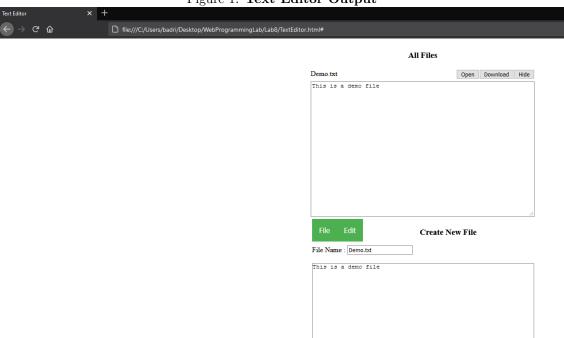


Figure 2: **Text Editor Output** 

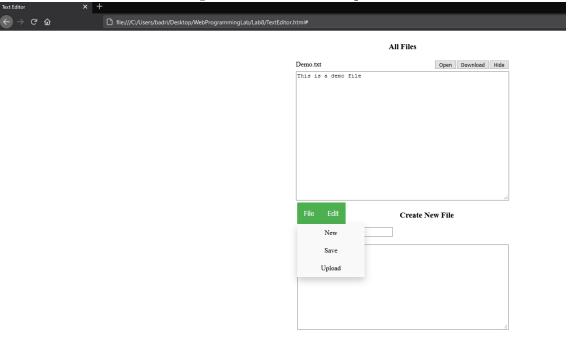
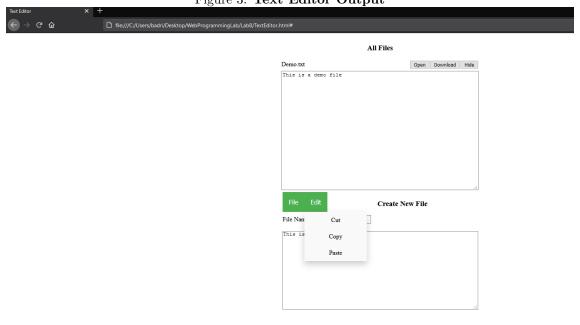


Figure 3: Text Editor Output



### Result

Thus the text editor was created and the output was verified successfully.