jsPDF Javascript library integration with NativeScript Angular

Library Github Repo - https://github.com/MrRio/jsPDF

Integration:

1. ***Let's create Nativescript angular project***

   npm install jspdf –save
   npm install @types/jspdf –save
   npm install base-64 --save

2. ***Verify whether it is installed or not***

   Package.json

   ```
   "dependencies": {
   "@types/jspdf": "^1.2.2",
   "base-64": "^0.1.0",
    "jspdf": "1.3.5"
   }
   ```

3. ***Start using the jsPDF in component***

   ```
   //You can create a fork of jsPDF to remove the following global variables for NativeScript
   global['window'] = {
      'document': {
         'createElementNS': () => { return {} }
      }
   };
   global['document'] = {
      'createElement': (str) => { return {} }
   };
   global['navigator'] = {};

   //Fix the variables using imports

   var base64 = require('base-64');
   import * as jsPDF from 'jspdf';

   global['btoa'] = (str) => {
      return base64.encode(str);
   };

   global['atob'] = (bytes) => {
      return base64.decode(bytes);
   };
   ```

```
global['utf8'] = {};

import { File, Folder, path } from "file-system";
declare var android: any;

//to get android downloads path
public basePath = android.os.Environment.getExternalStoragePublicDirectory(
android.os.Environment.DIRECTORY_DOWNLOADS).toString();

//generate the dataurl of the resulted pdf
generatePdf() {
        var doc = new jsPDF('p', 'pt', 'a4');
        doc.setFontSize(26);
        doc.text(40, 40, "First PDF with NativeScript Angular using jsPDF!");
        let imgData = base64string;
        doc.addImage(imgData, 'JPEG', 0, 0, 100, 100, "newCertificate", 'FAST');

        var base64 = doc.output('datauristring');

        if (base64) {
                let sliced = base64.toString().slice(28);
                this.savePdf(sliced);
        }

}

//save the base64 as pdf file using file system
savePdf(encodedData) {
        let folder = Folder.fromPath(path.join(this.basePath, "jsPDF Files"));
        let tofile: File = folder.getFile('nscertificate.pdf');

        if (tofile) {
                let data = android.util.Base64.decode(encodedData, android.util.Base64.DEFAULT);
                tofile.writeSync(data, err =>
                        {
                        console.log("err :", err);
                        });
        }
}
```

4. *Steps to add Image:*

1. **Add atob global variable**

2. **Add btoa global variable**
3. **Add utf8 global variable**

4. Supply only the base64 encoded JPEG images

(https://www.base64-image.de/)

(https://parall.ax/products/jspdf)

(https://stackoverflow.com/questions/19072241/jspdf-not-working-with-images)