

## **A microapp to certifying a PDF**

### **Problem Description:**

Create an application that takes a pdf (generated from an application) as input and certifies if the pdf is valid. To certify that the pdf is valid, it should satisfy the rules given below.

#### **Rule 1: Font Style**

The font style of the PDF should be one among the following:

- ClassGarmnd
- Frutiger LT Pro
- Frutiger LT Std
- Symbol
- Times New Roman
- Arial

If there is a font style in any page of the PDF that doesn't fall in the above list, mark it as an error

#### **Rule 2: Minimum lines**

The minimum number of lines in any page of the PDF is 5. If the PDF has any page with less than 5 lines, mark it as an error

#### **Rule 3: Missing header or footer**

Every PDF that we generate has a header and footer



If the input PDF does not have a header or a footer, mark it as error

#### Rule 4: Blank page

If the PDF has a blank page, with just the header and footer and with no content in the text area (the area between the header and footer), mark it as error

#### Rule 5: Short column

Every page of the PDF will have two columns. The margin of each column should be 8.504 pt on all sides. Check if any page of the PDF has a short column (ie., if the bottom margin is greater than  $8.504 \pm 0.5$ ).

#### Rule 6: Text exceeds margin

Check if the content in the text area exceeds the margin in the left or right.

#### Rule 7: Missing Entity

Certain fonts don't support a few entities. For example,  $\sum$  may not be present in few fonts. In case there is a missing entity, it will be displayed as shown below.

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Check if the PDF has any missing entities

## Output

In case the PDF fails one or more of the above rules, mark it as an error. You can either annotate the error in the PDF or return as a JSON as shown below

Eg:

```
{
  Missing_Entity: {
    Page: 2
    Line : 4
  }
  Short_column: {
    Page: 4
  }
}
```

You can change the structure of JSON if needed.

## User Interface

You can create a simple UI where you can upload a PDF

