PDF Checker Project Requirements

Objective:
To develop a tool that checks various aspects of a PDF document and identifies any discrepancies based on specific criteria. The tool will include a frontend interface for users to upload PDF documents and display the results, highlighting pages that do not meet the required parameters.

Key Features:

1. Page Margins Detection:
   - Identify the margins (top, bottom, left, right) for each page.
   - Highlight pages that do not meet the predefined margin specifications.

2. Blank Pages Detection:
   - Identify and report any blank pages within the document.

3. Page Number Location:
   - Detect and report the location of page numbers (header or footer, left, centre, or right).
   - Highlight pages where the page number location is incorrect as per requirement

4. Single Sided or Double Sided Document:
   - Determine if the document is single-sided or double-sided.
   - Highlight pages if the document has an inconsistent single/double-sided format.

5. Landscape Pages Detection:
   - Identify and report any landscape-oriented pages within the document.
   - Highlight landscape pages

6. Additional Features (To be Finalised):

Frontend Requirements:

Upload PDF:

- Provide an interface for users to upload PDF documents for analysis.

Results Display:

- Display the results of the analysis, highlighting incorrect pages based on the defined parameters.
- Allow users to navigate through the document and view specific issues.

Technical Specifications:

Language and Frameworks:

- Backend: Python
- Frontend: HTML, CSS, JavaScript (potentially using a framework like React.js for a more dynamic interface)
- Flask or Django for integrating the backend with the frontend

Deliverables:

- Fully functional PDF checker tool as per the above specifications.
- Source code and documentation for the project.

Testing and Quality Assurance:

- Testing of the tool using provided sample documents.
- Ensuring the tool accurately identifies discrepancies and displays results as expected.