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Scope (Functional & Non-Functional Requirements)

Scope:
The Form Analyser will allow users to create profiles on the platform, in which they can create separate projects for each template type. After which, the uploading of a blank form template will be prompted, from which keys will be identified using segmentation, boundary recognition and text extraction. After this, the recognized fields will be presented to the user after which they can select fields on which analysis or insights need to be generated and determine the field type. If there is any handwritten text, it should be capital and clearly separated, else should be entirely machine printed.

The limitations of our product will be that the submitted forms will have the same template submitted at the initial stage, form media type should be png or jpeg, limited form types will be supported and forms should have clear text boxes for the input. If there is any handwritten text then the characters should be clearly separated and in uppercase format.

Functional Requirements:
a. Users should be able to upload their own form..
b. Feature to choose which fields upon which analysis is required.
c. Extract all fields & its values from the uploaded bulk amount of forms.
d. Personalized dashboard to view visual insights of data.
e. Recognizable and limited font styles of print media will be supported.
f. Form types supported will be limited.
g. Sentiment Analysis will be performed on fields specified by the user, and are compatible.
h. Visual Analysis will be different for different types of fields.
i. System administrator will have the highest view as well as edit access.

Non Functional Requirements:
a. The system should have the similar accuracy for the blank form and the filled form.
b. Availability will be high.
c. User authentication and security should be provided
d. UI/UX will be aesthetic and user friendly.

Technology & Tools

1. Front End:
    a. React.js
    b. HTML
    c. CSS
    d. JavaScript
2. BackEnd:
    a. Django
3. Libraries:
    a. Tesseract
    b. Tensorflow
4. Database:
    a. MongoDB
5. UI/UX:
    a. Whimsical
6. Version Control:
    a. Git
    b. GitHub