Assignment

The goal of this assignment is to assess your skills in developing web applications using Django, PostgreSQL database and working with PDF files. You will be building a simple web application that allows users to upload PDF files, extract the text from them, and store the text along with the PDF in a database.

For your ideation purpose: you should be creating a web application version of document scanning and storing application along with text extraction.

Requirements

- The application should be built using Django 2.2 or newer and PostgreSQL database (make sure you setup the Django & PostgreSQL setup correctly for smooth functioning of the application and proper building of the database tables and relations).
- Implement User Authentication / Single Sign On [SSO] for users to sing up to the web application and store the uploaded PDFs and extracted data.
- The application should have a form for uploading PDF files.
- When a PDF file is uploaded, the application should extract the text from the file and store it in a Text model. The Text model should have a field for the text itself and a field for the filename of the PDF file.
- The application should have a list view for displaying all uploaded texts, with the filename and a link to the PDF file.
- The application should have a detail view for displaying the text of a single text entry, with the filename and a link to the PDF file.
- Note:
  - Along with PDF files, if you could add image filetype upload support along with capture document support, it would be great [Although this is a secondary feature]
  - Use the sample files for testing during the development process. - Sample Files

Evaluation criteria

The following aspects will be evaluated in this assignment:

- Correct implementation of the requirements.
- Code structure and organization.
- Use of Django best practices.
- Ability to write clean and readable code.
- Ability to work with PDF files and extract text from them.

Submission

Please follow the below steps for submission and evaluation:

- Before even starting the assignment, make sure you create a new GitHub repository and either make it public or share it with the following GitHub usernames:

- deeplogicai
- utkarshmttl – me@utkarshmittal.com
- csvinay – vinay.chappa@gmail.com

All the content of the project [source code, documentation, diagrams etc.] should be solely under this repository. Once you create the basic repository, reply to this mail with the GitHub link of the project.

- The assessment of your work would be an on-the-go evaluation approach, that is, our team will be arbitrarily monitoring your commits to your repository from the beginning so that we can understand your ideation, planning & development techniques and approach towards a task and project which helps us in understanding your working and development style.
- Hence, make sure you approach the assignment accordingly but mainly focus on the development of the minimum viable product [a basic solution to the assessment] in the time limit of 48 hours.
- A short report describing your approach to solving the assignment, any challenges you faced, and what you learned from completing the assignment should be added along with the installation and documentation guide in the README.md.
- Make a recording of your final solution with 2 parts [upload the single recording to google drive or any cloud storage and attach the public sharable link to README.md]:
  - showcasing the application as a demo to the user
  - a brief explanation of the codebase and logic of the application.
- Send a mail to vinay@deeplogicai.tech with the GitHub link when you are done with the project assessment so that we can assess and move ahead with your application to the next step.

Note

This assignment is meant to be completed in about 24-36 hours and completely wrapped up and submitted in 48 hours. Do not spend more time than that on it. If you feel that you cannot complete the assignment within the allotted time, please let us know and we will adjust the expectations accordingly.

[Deadline: 24th December, 2022, Saturday Evening 6:00 PM].

References

- Details of the internship: https://tinyurl.com/dlai-django-intern-details
- Mail to vinay@deeplogicai.tech for any queries regarding the assessment

Have a productive and informative development period & all the best!