Interactive Cares

Task for Backend Developer
Task Submission Link: https://rb.gy/hhybv

Note: Please provide a link to a GitHub repository containing your solution. The repository should include instructions for running the application locally and any necessary setup steps.

Project Title: Personal Document Management API with Django REST Framework

Objective: To create a RESTful API for a personal document management system where users can upload, download, and manage documents in different formats (pdf, docx, txt, etc.).

Project Requirements:

User Authentication and Authorization: Use Django's built-in authentication system and DRF. It should support user registration, login, and token-based authentication. Implement role-based access control, where some users are given 'admin' privileges to manage all documents.

Document Upload: Users should be able to upload documents in various formats. Implement file validation to check if the uploaded file is in the correct format. Also, consider file size restrictions.

Document Download: Users should be able to download their own documents or those shared with them. Admin users should be able to download any document.

Document Management: Create models to store document metadata, such as title, description, upload date, format, and owner. Implement API endpoints to allow users to update the metadata of their documents, delete their own documents, or view the metadata of documents shared with them.

Sharing: Users should be able to share their documents with other users.

Search: Users should be able to search their documents by title, description, format, or upload date.

Documentation: All API endpoints should be properly documented using a tool like Swagger.

Bonus Points:

Implement a feature to convert documents from one format to another (e.g., from docx to pdf), using a library like PyPDF2 or python-docx.

Implement version control, so users can keep track of changes to their documents over time.

Deliverables:

The candidate should provide:
- The source code of the project.
- A Postman collection, or similar, for testing all the API endpoints.
- A documentation for all the API endpoints.
- A brief report explaining their design choices and project structure.