Job Description: Backend Developer

Overview:

We are looking for a talented Backend Developer to join our dynamic team. As part of the application process, candidates will be required to complete a small assignment that involves integrating several technologies using Django as the backend framework. This assignment will help us assess your skills and fit for our team.

Assignment Overview:

The assignment involves creating a comprehensive template for integrating the following technologies:

- Google OAuth 2.0 API for user authentication.
- Google Picker API for file uploads and reading data in JSON format.
- A **WebSocket** for real-time communication between users.

Detailed Requirements:

1. Google Authentication Flow

- Create an endpoint that initiates the Google Auth flow.
- Implement a callback URL where Google sends the authentication data.
- Simply return the data received from Google.

2. Google Drive Integration

- Develop an endpoint that allows users to connect their Google Drive.
- Implement functionality for users to upload files to their Google Drive.
- Provide an option to fetch and download files locally from Google Drive.

3. WebSocket for User Chat

- Implement a WebSocket that enables real-time chat between two preconfigured users.
- Ensure that messages are sent and received in real-time.

Submission Guidelines:

- Host your application on any hosting provider like Railway, Render, Heroku, etc.
- Provide a Postman collection that includes all the API endpoints you have created.
- Ensure that the Postman collection is well-documented, detailing the request and response formats.

To complete your submission, please follow these steps:

1. GitHub Repository:

- Create a GitHub repository containing all relevant code and Postman collections.
- Ensure the repository includes a comprehensive README file.

2. README File:

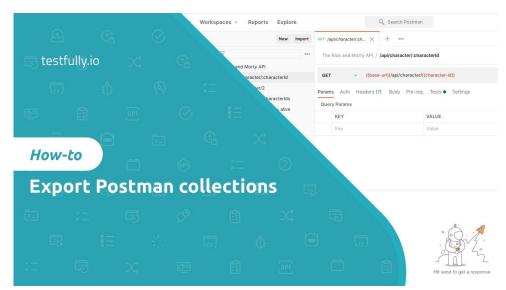
The README file must provide clear and detailed instructions on how to:

- Run the API
- Test each API endpoint

3. Video Explanation: (Mandatory)

- Create a brief video explaining your project.
- Upload the video to YouTube or Loom and include the link in your application materials.

Resources:



https://youtu.be/BWofbshDneQ

Qualifications:

- Proficiency in Python and the Django framework.
- Experience with integrating 3rd party API's.
- Strong understanding of REST-ful API design and implementation.
- Familiarity with WebSocket implementation for real-time communication.
- Ability to work collaboratively in a team environment and communicate effectively.

Preferred Skills:

- Experience with cloud services and deployment (e.g. AWS, Google Cloud)
- Knowledge of database management systems (e.g. PostgreSQL, MongoDB)
- Familiarity with version control systems (e.g. GitHub)