

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 pre-configured 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:

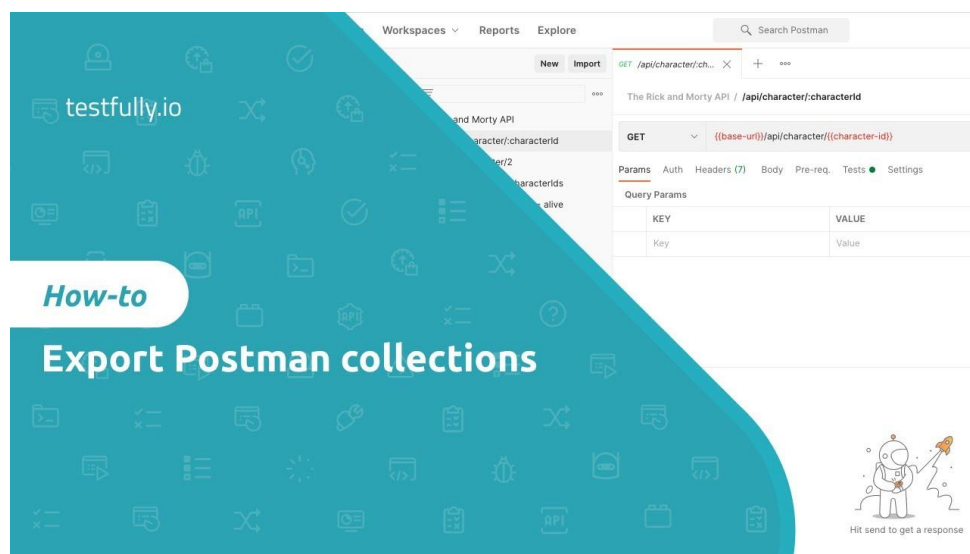
The README file must provide clear and detailed instructions on how to:

- Run the API
- Test each API endpoint

3. Optional Video Explanation

- Consider creating a brief video explaining your project.
- Upload the video to YouTube 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)