Integration Document

Flexible Backend for Easy Integration

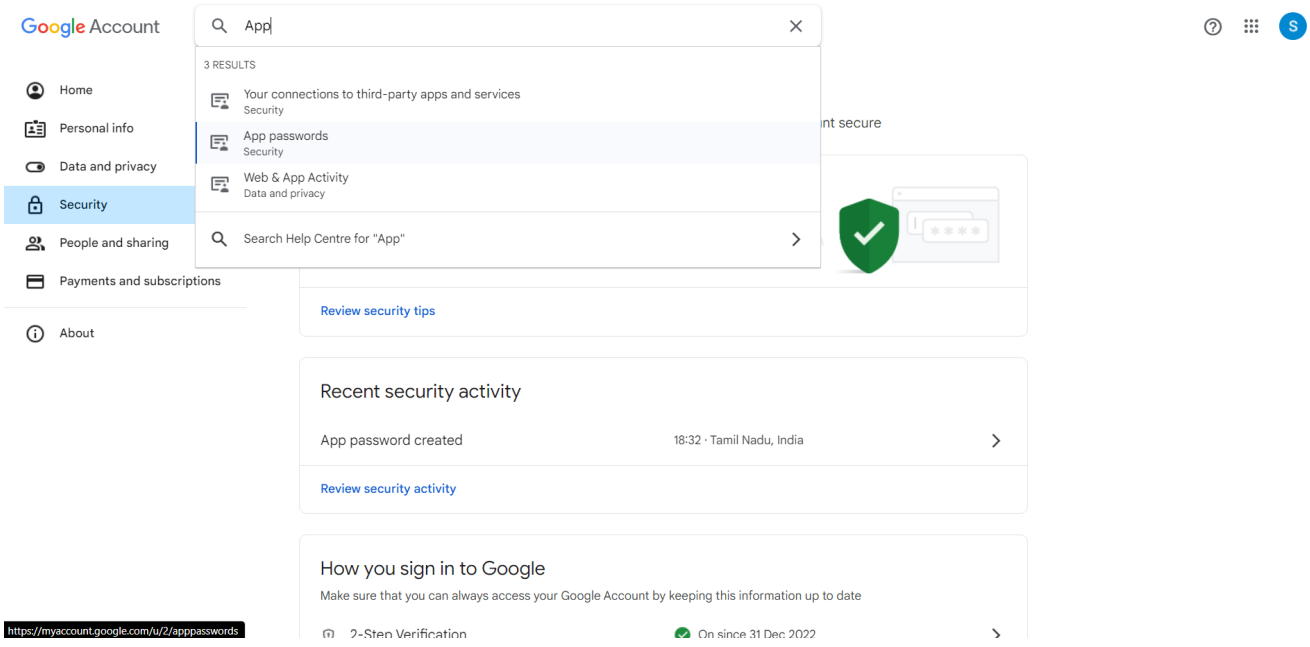
1. **Environment-Friendly Backend:** We've designed our backend to work smoothly in any setup. Whether it's for testing, production, or anything in between, our system doesn't require code changes to adapt.
2. **Easy Third-Party Additions:** Adding external tools and services is a breeze. Our School Technical Support team can set things up without touching the code. It's all about simplicity and flexibility.

Setting up School Name

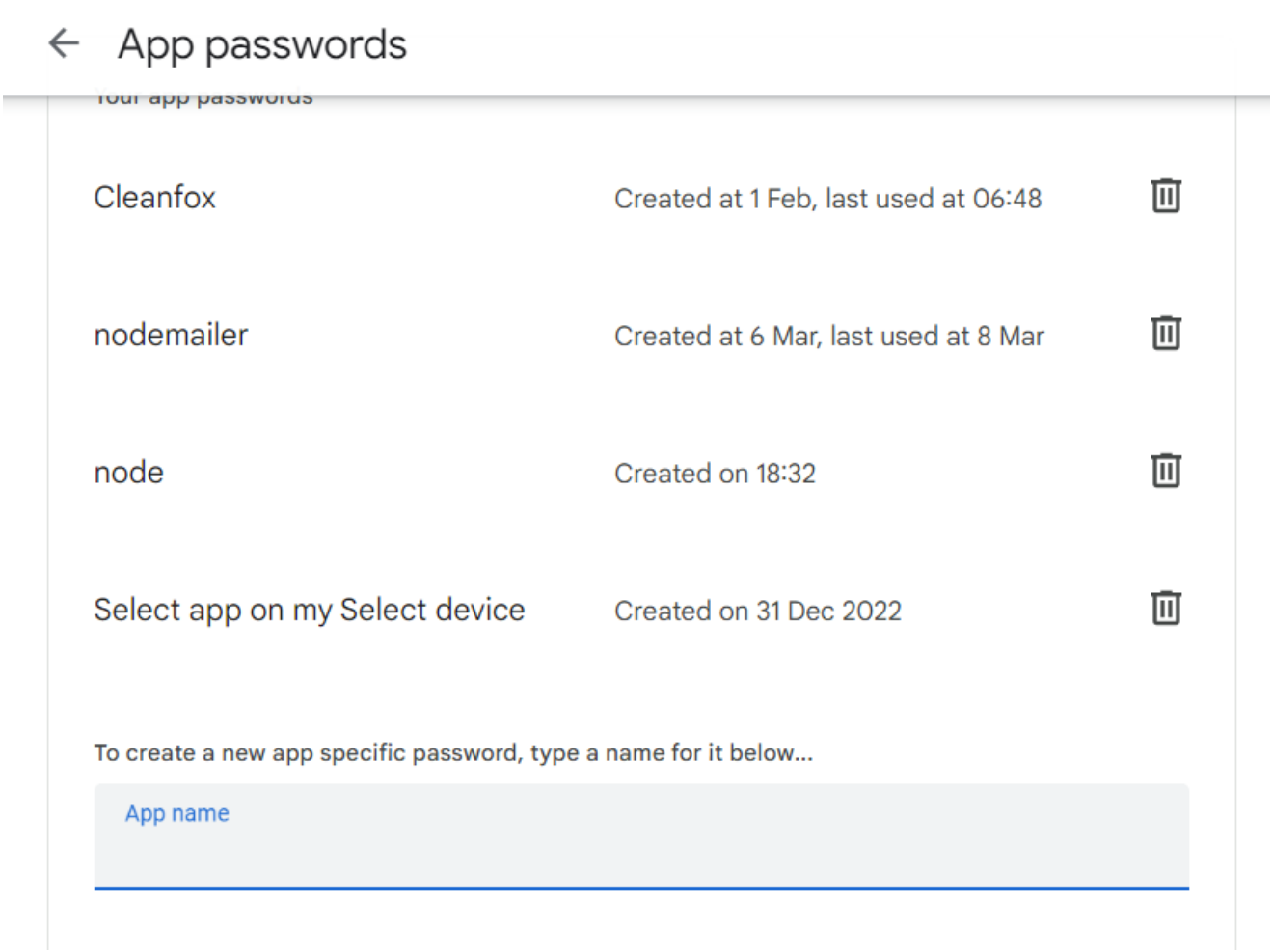
- Please configure the environment variable `school` with your school's name. This designated name will serve as the database name, ensuring a seamless integration with our database system.

Setting up Mail Server

1. **Establish a Dedicated Gmail Account for Credential Transmission:** To ensure the security and integrity of credential transmission, we recommend creating a Gmail account exclusively for this purpose.
2. **Access 'App Passwords' in Your Google Account Settings:** Navigate to 'Manage your Google Account' and search for 'App passwords'. Alternatively, you can access this feature directly through the following link: [Google Account - App Passwords] (Please ensure you are logged into the correct account).



3. **Generate a New Application Password:** Create a new application entry and securely copy the generated password.



4. **Configure Environment Variables for NodeMailer:** In your application's environment, set the `NODEMAIL` environment variable as the application name you just created. Additionally, set `NODEMAIL_PASSWORD` as the copied password. Be sure to remove any spaces from these values for accurate configuration.

By following these steps, you'll ensure a professional and secure approach to managing credentials for NodeMailer integration.

Setting up JWT Key

- Please establish the `JWT_KEY` environment variable by assigning it any string of your choice. This key will serve as a critical component in our security infrastructure.

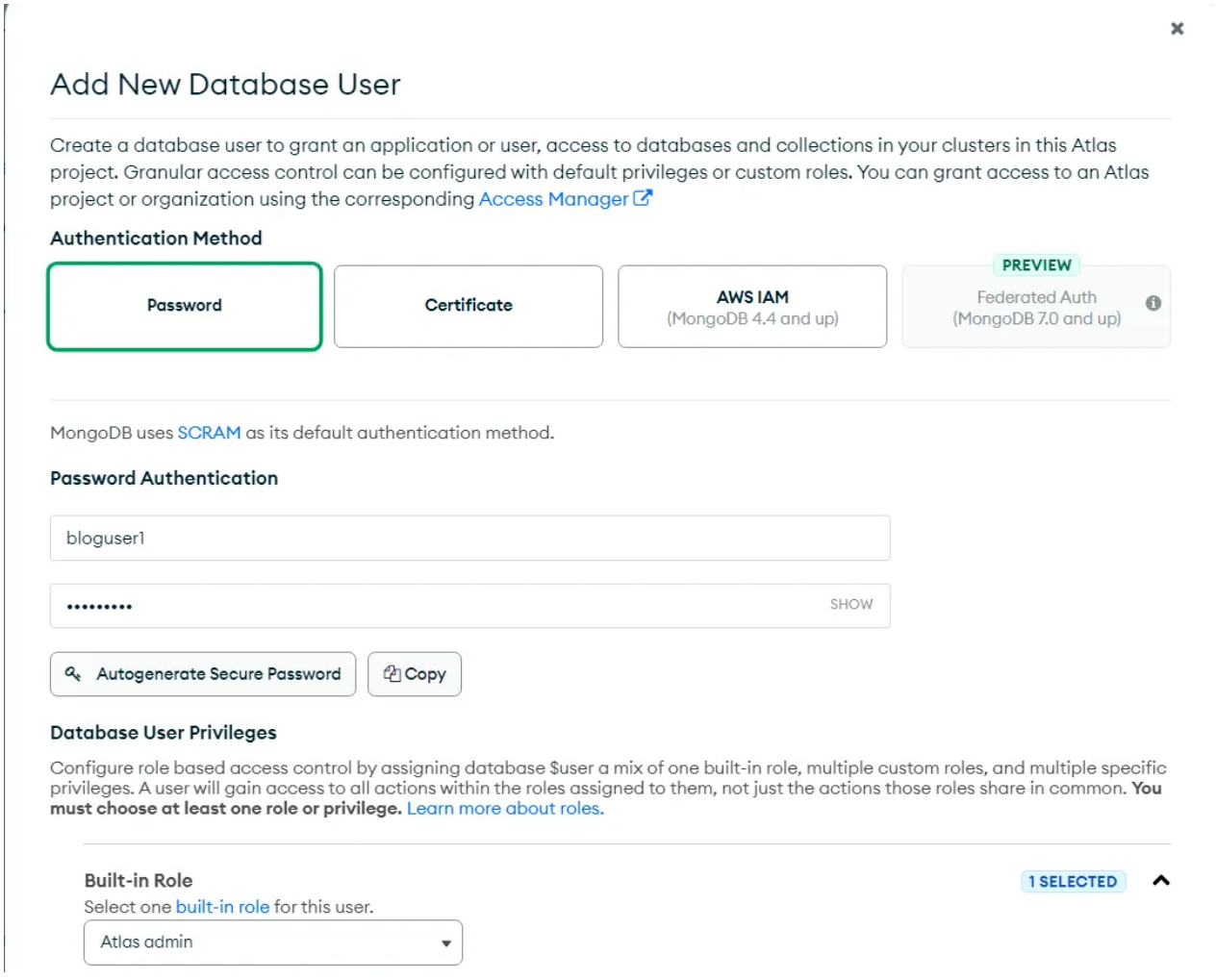
Setting up MongoDB

Let's begin by setting up MongoDB Atlas , a cloud-based database service that simplifies database management, especially during deployment. The MongoDB free tier offers ample space for starting out, with a generous shared cluster plan cap of 512MB.

Here's how you can set up MongoDB:

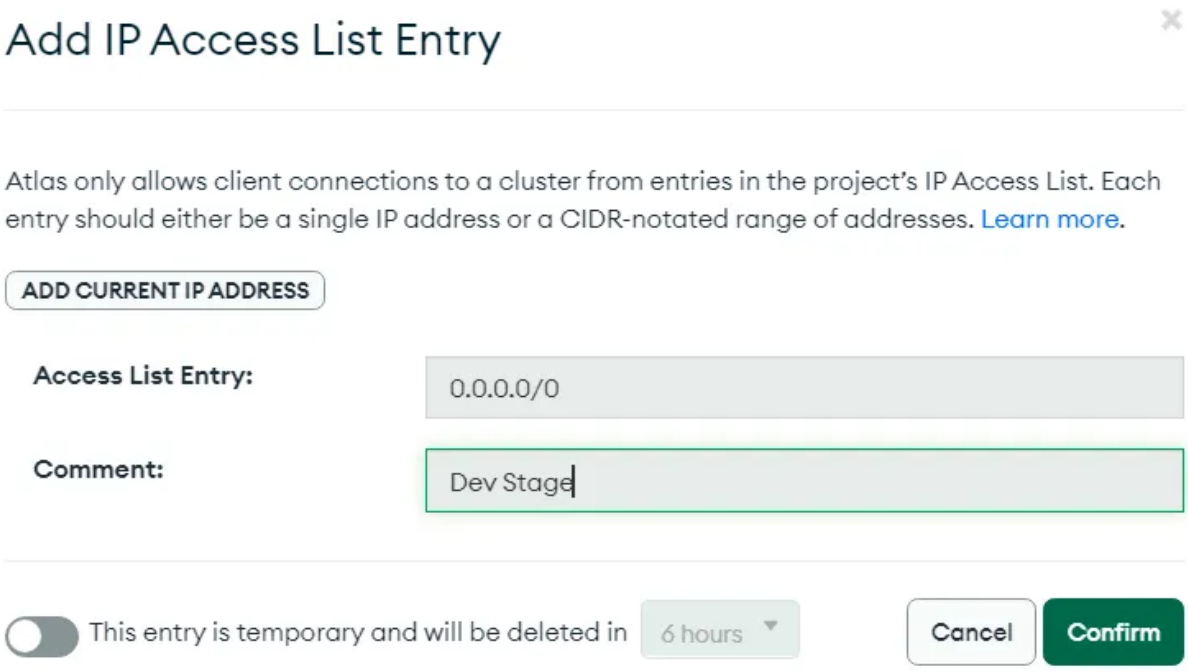
1. **Logging in and Database access**:

- After logging in, access the "Database Access" section under Security.
- Add a new database user with appropriate credentials.
- Choose "Atlas Admin" as the Built-in Role or select a role based on your requirements.



2. **Network Access Configuration:**

- Navigate to "Network Access" under Security.
- Add an IP address. During development, allowing all IPs (0.0.0.0/0) can be suitable. Remember to restrict IPs during deployment.



3. **Copying driver code**

- Go to the "Database" section under the "Deployment" tab.
- Click on "Connect" and select the "Driver" option.
- Choose "Node.js" as the driver and specify the version you're using.
- Copy the connection string provided and store it securely. This connection string will be used to establish a connection from your API to the database.

4. **Setting up env variable**

- Kindly replace 'username' and 'password' with your actual credentials. Following this, configure an environment variable named `MONGODB_URL` with the updated connection string for your MongoDB database. This will ensure seamless and secure access to the database

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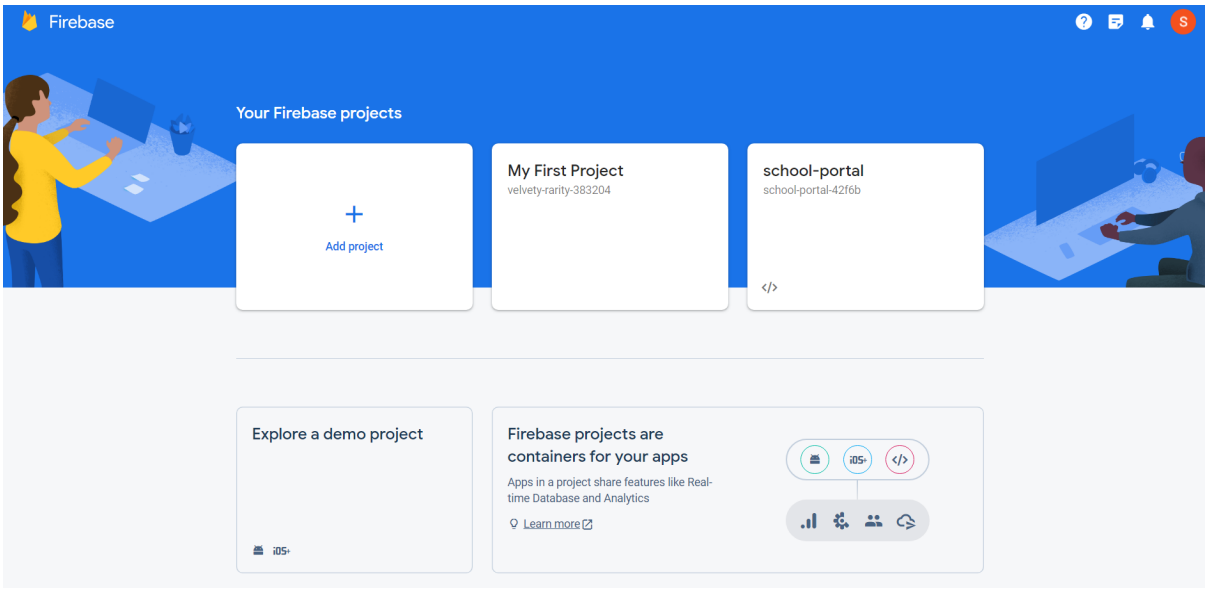
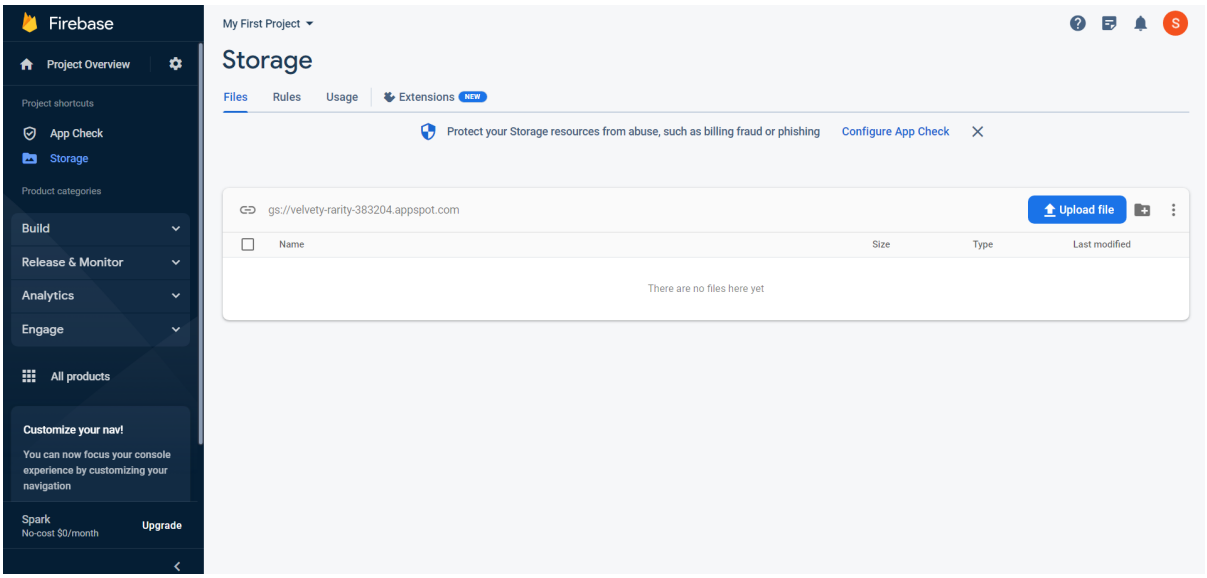
Setting up Firebase Storage

Firebase is a comprehensive mobile and web application development platform offered by Google. It provides a wide range of tools and services to help developers build high-quality apps quickly, without needing to manage the underlying infrastructure. Firebase is known for its ease of use, scalability, and integration with other Google Cloud services.

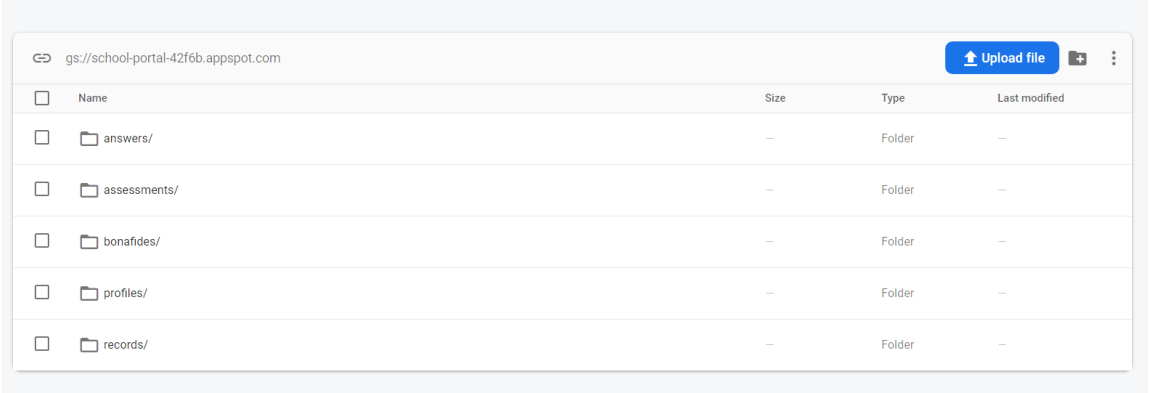
1. **Access Firebase:**
   - Visit the Firebase website at Firebase.
2. **Create a New Project:**
   - Access the Firebase console and create a new project.



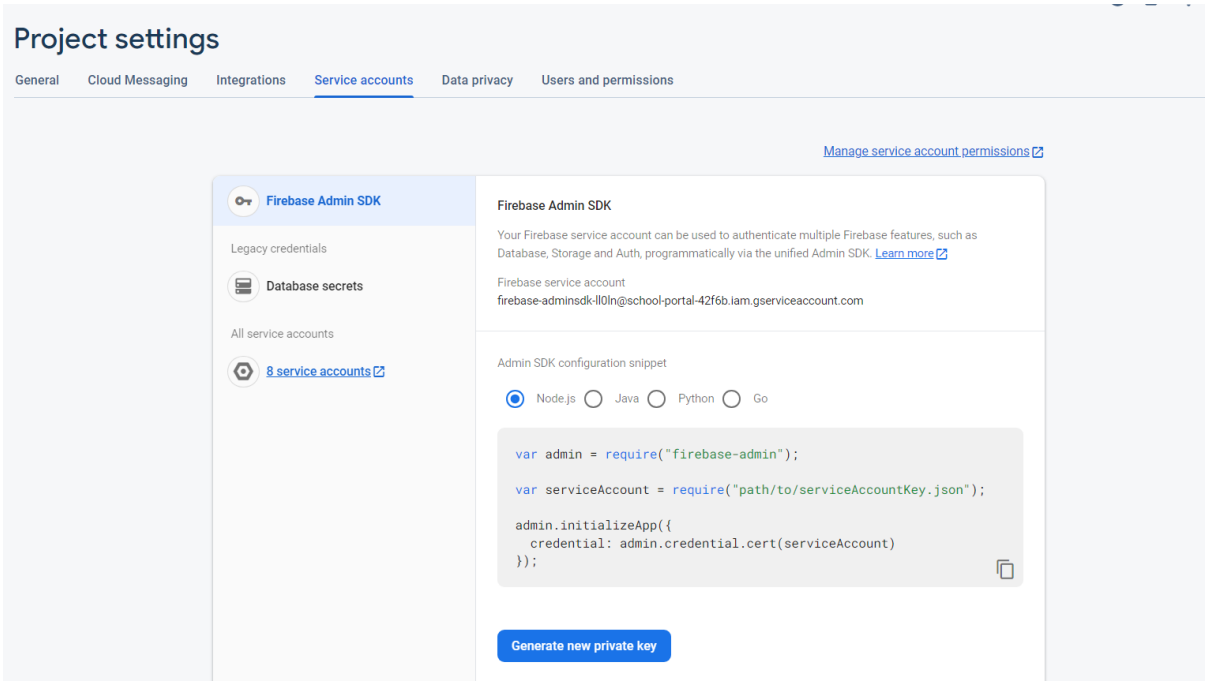
3. **Select Firebase Storage:**
   - Within your project, select "Storage" from the list of available Firebase products.
4. **Get Started with Firebase Storage:**
   - Click "Get Started" to initiate the setup process. You'll be prompted to choose a mode and specify a location for your storage, which may take a moment to configure.



5. **Create Folders:**
   - Once you're redirected to the storage bucket, create the following folders as needed:
     - `answers`
     - `assessments`
     - `bonafides`
     - `profiles`
     - `records`



6. **Generate Service Account Key:**
   - Navigate to your project settings and click on "Service Accounts."
7. **Download a Private Key:**
   - Click on "Generate new private key." This action will download a JSON file containing the necessary credentials.



8. **Configure Environment Variables:**
    - For added security and flexibility, it's advisable to set up environment variables using the values from the downloaded JSON file. Ensure that each key in the JSON file corresponds to a unique environment variable with the same value.

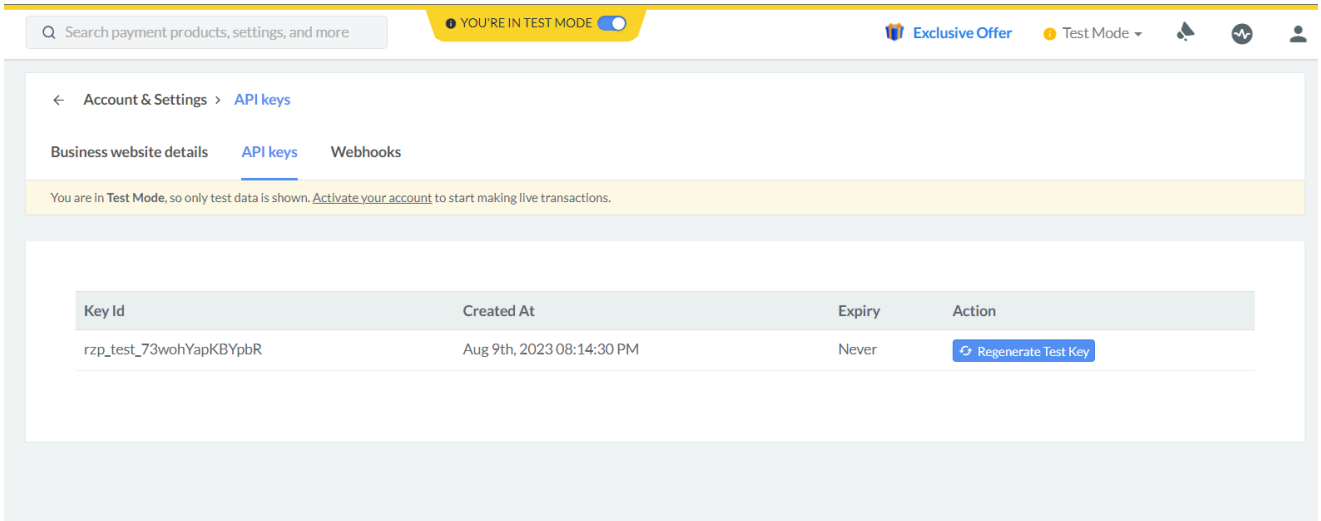
By following these steps, you'll establish a robust Firebase Storage system and maintain enhanced security by configuring essential credentials as environment variables. This approach simplifies management and provides a professional level of data security.

Setting up Razorpay

Razorpay is a developer-friendly payment portal which can easily integrate into code. Check out the Official Website: https://razorpay.com/

1. **Sign Up and Prepare the Test Environment:**

- Begin by signing up for a Razorpay account and navigate to 'Account & Settings.'
- Access 'API Keys' and generate new API Keys specifically for the test environment. Be sure to download them.
- When your server is ready for production, you can switch to 'Production Mode.' This switch requires the completion of a KYC form.



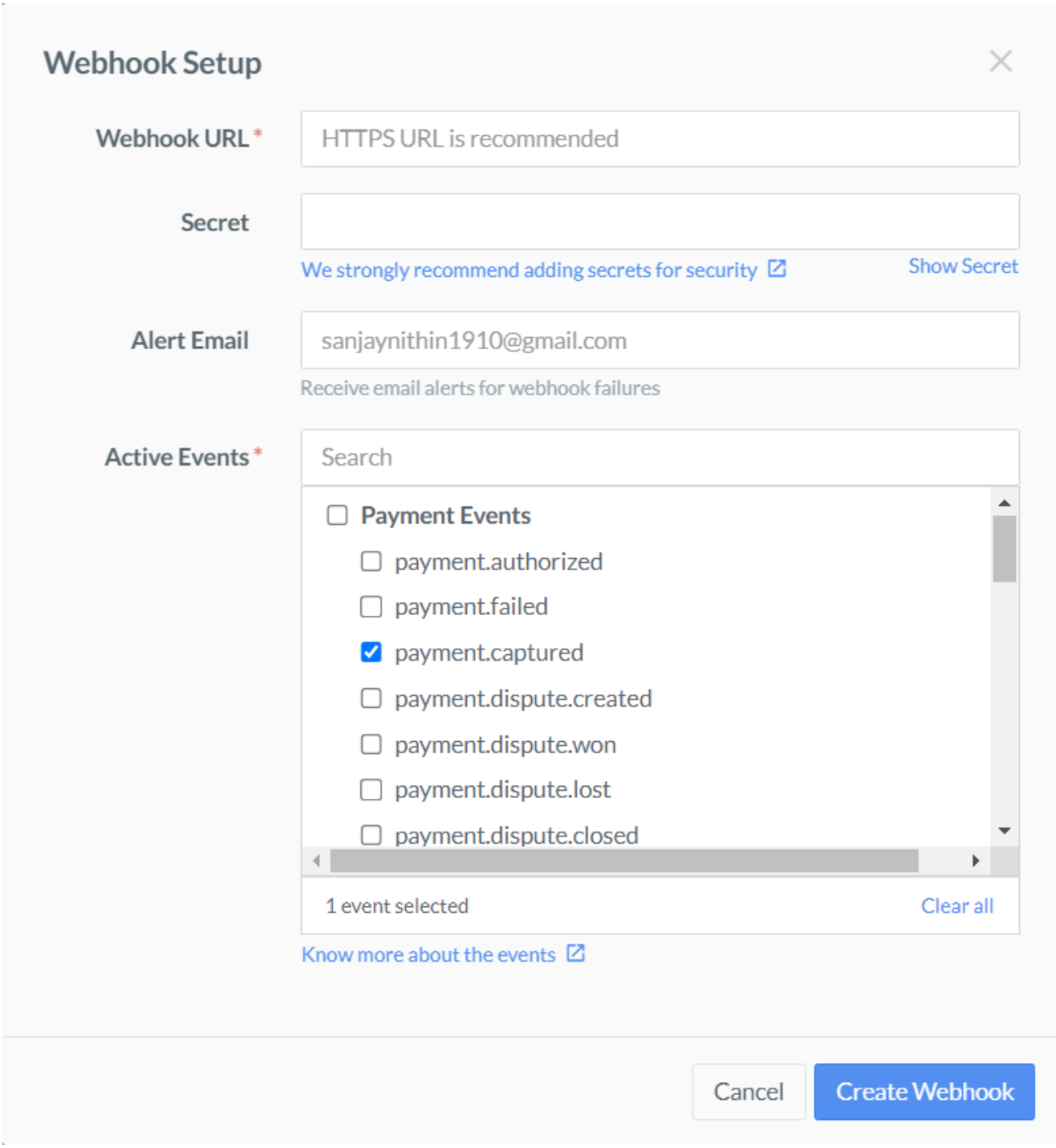
2. **Configure Environment Variables:**

- To enable seamless integration, configure the following environment variables:
  - `rpy_key` : Set this variable to your Razorpay API key.
  - `rpy_key_secret` : Set this variable to your Razorpay API key secret.

3. **Establish a Webhook for Backend Integration:**

- You should set up a webhook for the backend.
- It's crucial to set up a webhook for your backend to stay informed about payment events.

- Configure the following details:
  - Webhook URL: This should be your production URL with '/transactions/razorpay' appended.
  - Secret: Add a secret for added security, and set it using the environment variable `rpy_webhook_secret`.
  - Action Events: Specify 'payment.captured' as the action event to capture.



Setting up Production URL

- Please configure the environment variable `url` with the URL where the backend will be deployed. This URL serves as a critical reference point for ensuring seamless deployment and connectivity.