# **Google Signup Implementation Django React**

i want to impliment google signup in my project backend django rest and frontend react

To implement Google Sign-Up in your project (Django REST for the backend and React for the frontend), follow these steps:

## **Backend (Django REST Framework)**

You'll use **django-allauth** and **dj-rest-auth** to handle authentication.

### 1. Install Required Packages

Run the following command:

```
sh
pip install dj-rest-auth django-allauth social-auth-app-django
```

#### 2. Configure Django Settings

Add the required apps to INSTALLED\_APPS in settings.py:

```
INSTALLED_APPS = [
    'django.contrib.sites',
    'allauth',
    'allauth.account',
    'allauth.socialaccount,
    'allauth.socialaccount.providers.google',
    'rest_framework',
    'dj_rest_auth',
    'dj_rest_auth.registration',
]

SITE_ID = 1  # Required for django-allauth

SOCIALACCOUNT_PROVIDERS = {
```

```
"google": {
    "SCOPE": ["profile", "email"],
    "AUTH_PARAMS": {"access_type": "online"},
}

REST_AUTH_SERIALIZERS = {
    'USER_DETAILS_SERIALIZER': 'your_app.serializers.CustomUserSerializer',
}
```

### 3. Update urls.py

Modify your Django urls.py:

```
from django.urls import path, include

urlpatterns = [
   path('auth/', include('dj_rest_auth.urls')),
   path('auth/registration/', include('dj_rest_auth.registration.urls')),
   path('auth/google/', include('allauth.socialaccount.urls')),
]
```

### 4. Create and Configure Google OAuth App

- 1. Go to **Google Cloud Console** → **Credentials**.
- 2. Create a new OAuth 2.0 client ID.
- 3. Set the redirect URI to:

```
http://localhost:8000/auth/google/callback/
```

4. Copy the **Client ID** and **Client Secret**.

### 5. Set Up Environment Variables

In settings.py , add:

```
python
```

```
SOCIALACCOUNT_PROVIDERS["google"]["CLIENT_ID"] = "your-client-id"
SOCIALACCOUNT_PROVIDERS["google"]["CLIENT_SECRET"] = "your-client-secret"
```

### Frontend (React)

You'll use **react-oauth/google** to handle Google authentication.

### 1. Install Dependencies

Run:

```
sh
npm install @react-oauth/google axios react-toastify
```

#### 2. Configure Google OAuth in React

```
In index.js or App.js:
```

#### 3. Implement Google Login Button

Create a component GoogleLoginButton.js:

```
jsx
import { GoogleLogin } from '@react-oauth/google';
import axios from 'axios';
import { toast } from 'react-toastify';
const GoogleLoginButton = () => {
  const handleSuccess = async (response) => {
    try {
      const { credential } = response;
      const backendResponse = await axios.post("http://localhost:8000/auth/google/",
{
        token: credential,
      });
      console.log("Login Success:", backendResponse.data);
      toast.success("Google Login Successful!");
    } catch (error) {
      console.error("Login Error:", error);
      toast.error("Google Login Failed!");
    }
  };
  const handleFailure = () => {
    toast.error("Google Login Failed!");
  };
  return (
    <GoogleLogin
      onSuccess={handleSuccess}
      onError={handleFailure}
    />
  );
};
export default GoogleLoginButton;
```

### 4. Add the Button in Your Login Component

```
jsx
import GoogleLoginButton from './GoogleLoginButton';
```

### **Final Steps**

- Ensure your **Django backend** is running (python manage.py runserver).
- Run your **React app** ( npm start ).
- Click the Google login button, and it should authenticate users with your backend.

Want me to refine any step or add token handling? 🚀