GuideSense: API Documentation

1. Authentication APIs

1.1 Registration API

Purpose: Creates a new user account with email, password, and additional user details via Clerk.

Method: POST using Clerk via Full stack SDK

Process:

- 1. Input: User having two options to sign-up their account. Either manual enter the username, email, and password; or sign up by link to their Google account.
- Output: A new user account is created in Clerk Authentication, and corresponding user details are stored in Clerk

Key Code: <u>Users: Create users</u>

```
export async function POST() {
   try {
     const user = await clerkClient.users.createUser({
        emailAddress: ['test@example.com'],
        password: 'password',
     })
     return Response.json({ message: 'User created', user })
   } catch (error) {
     console.log(error)
     return Response.json({ error: 'Error creating user' })
   }
}
```

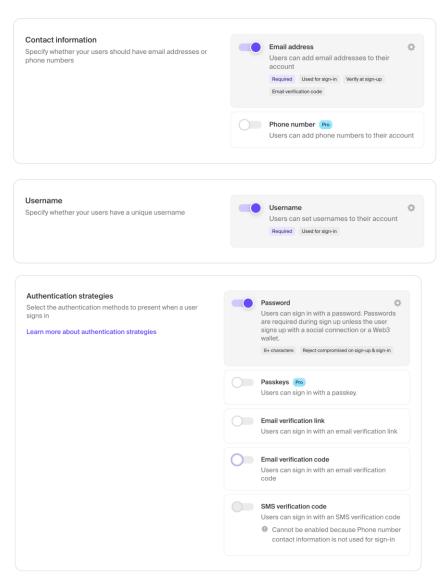
2.2 Login API

Purpose: User able to login their accounts on two options.

Method: Enable the login options on Clerk API

Process:

1. Login with their username or email with password.



2. Login with "Continue with Google", which requires user to login to their Google account.



2. FastAPI

https://fastapi.tiangolo.com/reference/openapi/docs/

To see documentation in Swagger UI, add /docs to the end of the URL.

To see documentation in ReDoc, add /redoc to the end of the URL.

3. Google Maps

- Go to the Google Cloud Console.
- Click the project dropdown (top bar) → "New Project".
- Name your project and click "Create".
- Go to the API Library
- Search for and enable the following APIs depending on your needs:
 Maps JavaScript API Geocoding API, Directions API, Places API

4. Google Text to Speech

- Go to the Google Cloud Console.
- Visit the API Library.
- Search for "Text-to-Speech API".
- Click Enable.
- Go to Credentials.

- Click "Create Credentials" → "Service Account".
- Fill in name/description and click **Create and Continue**.
- Grant the "Project → Editor" role (or more specific roles if needed).
- Click Done.
- In the credentials list, click your new service account → "Keys" tab → Add Key → Create new key → JSON.
- A . json key file will download. **Save this securely** it's your authentication token,