**NOTE: This project assumes that the web application is launched on a Mac computer. Should be compatible with other devices as well but may require some commands to be run differently.**

**About**

This project launches a web application that allows user to login via Google sign in and access files in GDrive. The files are listed and can be either downloaded or people with access to that file can be viewed in real time. The project is developed in Node.js.

**Steps to deploy the web application:**

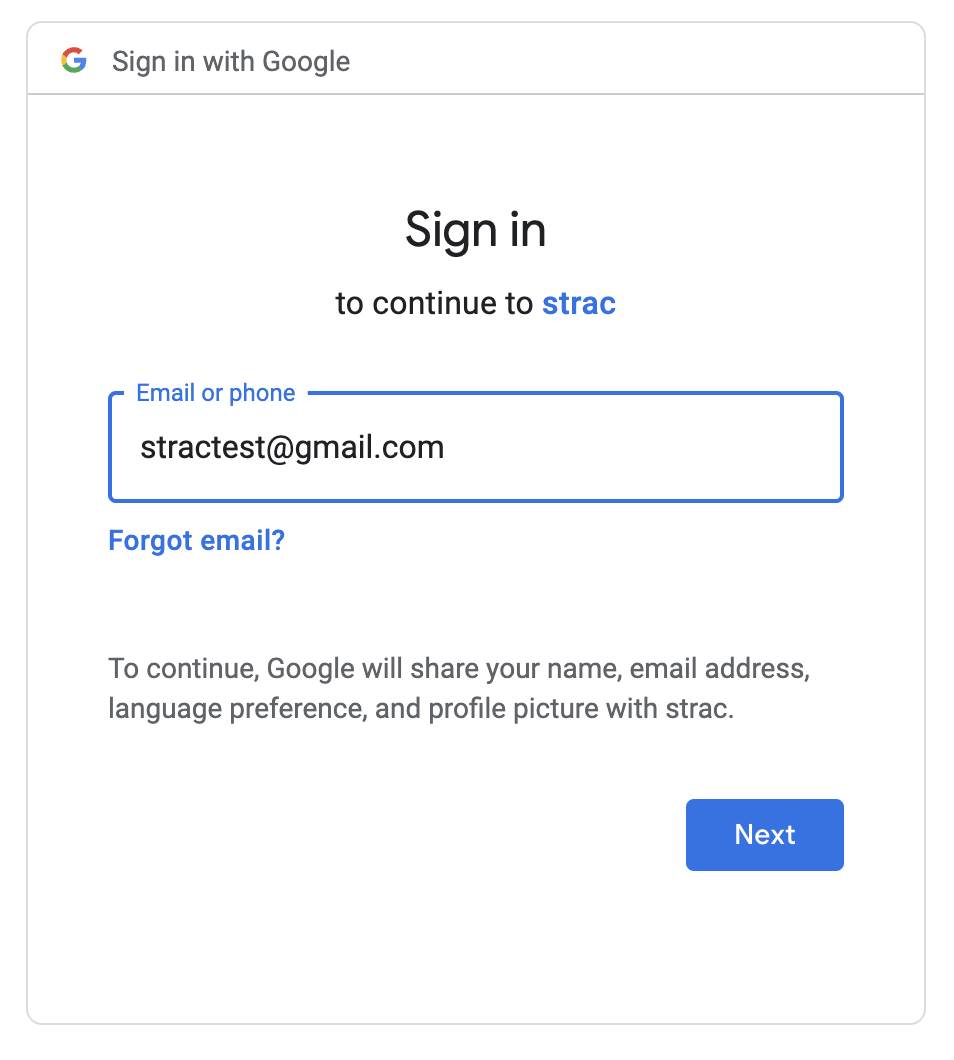
1. Download and install Node.js (<https://nodejs.org/en/download>)
2. Clone the git repository by executing the below command in a terminal,
   1. git clone <https://github.com/MSShravan/stractest.git>
3. In the project directory (…/stractest), execute the below command in a terminal to install required libraries,
   1. npm i express multer googleapis nodemon ejs request
4. In the project directory (…/stractest), run the following command in a terminal,
   1. npm start
      1. You should see a log message like “App started on port 8080”
5. Now, open your favorite browser and go to <http://localhost:8080>
6. Click the red button that says “*Access GDrive*”

Graphical user interface, text, application, chat or text message

Description automatically generated

1. You’ll be prompted with a Google sign in page. Use below credentials to login,
   1. Email: [*stractest@gmail.com*](mailto:stractest@gmail.com)
   2. Password: *stractest123*

*NOTE: Please use above credentials only as my Google developer account is running on test mode and I have granted permission for above email only for security concerns. Using other email will throw an error.*



1. If prompted, grant access to GDrive by accepting any prompts. Failing to grant permission will throw an error.
2. Now, you should be able to see the list of files from the GDrive account.

Diagram

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1. Click on the green *Download* button to download the file.
2. Click on the blue *People with access* button to see the list of users with file access permission.
   1. This opens a new page with the list of users and updates this list in real time if the users are added/removed from that file.

*NOTE: The web application polls the GDrive API to get the list of people with access to that file. A web-hook that listens to the GDrive for any updates to the user list is a better solution, however, this requires the web application to be web hosted (code is implemented and commented for now). Hence, polling logic was adopted.*

*Graphical user interface, text

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