1. To run the server, first ensure that all the packages are installed in the /server folder using: npm install
2. Next, ensure that the .env file exists in the server folder. If not, retrieve it from the remote server and copy the file locally. **Note:** This file should never be committed or pushed
3. In the .env file, modify the google callback to the following:

| GOOGLE\_CALLBACK\_URL=http://localhost:5005/auth/google/callback |
| --- |

1. Next, modify the client url:

| CLIENT\_URL=http://localhost:3000/ |
| --- |

1. Also, ensure that the .env file exists in the client folder. If not, create a new .env with the following line:

| REACT\_APP\_SERVER\_URL=http://localhost:5005 |
| --- |

1. Now, we must port forward to the remote DB
   1. For PC users:
      1. Open Putty, and navigate to SSH -> Tunnels section
      2. For source port enter: **5433**
      3. For destination enter: **localhost:5432**
      4. Ensure the local and auto setting is selected
      5. Click **Add**
      6. Navigate to SSH -> Auth
      7. Click **Browse** and select putty compatible private key (for all.rit.edu server)
         1. If you do not see a putty key, follow steps for **Creating putty key**
      8. Navigate to Session
      9. Under hostname enter: **all.rit.edu**
      10. Enter Port: **22**
      11. Select **Open** and enter the user **all** once the terminal appears
   2. For Mac users:
      1. Run this command from your local machine: ssh -L 5433:localhost:5432 [all@all.rit.edu](mailto:all@all.rit.edu)
         1. You can add it to your .bashrc so it runs automatically when you open any terminal
2. To validate proper port forwarding, click the top left corner and select **event logs**
   1. If the port forwarding is successful it will say: local port 5432 forwarding localhost:5432 Now you are ready to run the server. Navigate to the /server folder and enter the command: **node app.js**
3. If everything is running correctly, you will see a “Connection Established Successfully” message in the console

Creating Putty Key:

1. Go to Windows **Start menu** → **All Programs** → **PuTTY** → **PuTTYgen**
2. Select **Load an existing private key**
3. Find the private key in the .ssh folder
4. Click **Save private key**