

Fingerprint Authentication Setup Instructions

WARNING :

If the hardware prerequisite for this project is not met, testing the program is not possible.

Prerequisites :

- Software :

- Node.js (<https://nodejs.org/en/download/>)
- MongoDB Community Server (<https://www.mongodb.com/download-center/community>)
- Web Browser [Program was built and tested using Google Chrome] (<https://www.google.com/intl/en/chrome/>)
- MFS100 Client Service (<https://download.mantratecapp.com/StaticDownload/MFS100ClientService.exe>)

- Hardware :

- Mantra MFS100 Finger Print Scanner
- xcluma USB RFID Id Contactless Proximity Smart Card Reader 125KHZ Em4001 Em4100
- Robodo MO32 RFID Card or Tag 125KHz EM4100

Pre-run setup :

1. Install Node.js.
2. Install MongoDB. [preferably installed as a service]
3. Install web browser of your choice. [Chrome/Firefox recommended]
4. Install MFS100 Client, ensure it is installed as a service.
5. Ensure MongoDB service is running and 'bankdb' collection is present.
 - A. Open run [Win + R], run 'cmd'
 - B. In the Command Prompt, run 'mongo', if it gives a prompt, this means MongoDB is running.
 - C. If no prompt/error, in Command Prompt, run 'mongod' and in another Command Prompt run 'mongo'. This should give a prompt, this means mongo is running.
 - D. To check if 'bankdb' exists or to create it, run 'use bankdb'. This will create if the collection does not exist.
 - E. If Step C. is executed, do not close the prompt on which 'mongod' is running.

Running the program [Easy method] :

1. Run one of the 3 binaries included in the "Fingerprint Authentication.zip" depending on the Operating System.
2. In the browser, type '<http://localhost:5000/>' and it should land on the Index page of the program.
3. If hardware prerequisites are not connected, this is the furthest one can reach.

Post this point, further steps have been made intuitive for the user.

Running the program :

1. Unzip "Fingerprint Authentication.zip"
2. In a Command Prompt, cd (change directory) to the FingerprintAuthentication folder created from unzipping the zip file.
3. Run '*npm install*' to install the dependencies required for the program.
4. Once the dependencies are installed, run '*npm start*'. This will run the program on port 5000 on localhost.
5. In the browser, type '<http://localhost:5000/>' and it should land on the Index page of the program.
6. If hardware prerequisites are not connected, this is the furthest one can reach.

Post this point, further steps have been made intuitive for the user.