

NS C2 ASSIGNMENT 2 *GROUP 40*

USER MANUAL

(Prerequisites: Nodejs installed. Can be installed from <https://nodejs.org/en/>)

First clone our repository by running this command in a terminal-

git clone https://github.com/tsukii21/needham-schroder.git

1. Starting KDC server

- a. Go to kdc folder
- b. Open terminal and run ***npm install***
- c. After installation is complete run ***node index***
- d. This will start the kdc server at localhost:5000

2. Starting the backend (Bob) server

- a. Go to backend folder
- b. Open terminal and run ***npm install***
- c. After installation is complete run ***node index***
- d. This will start the server at localhost:3001

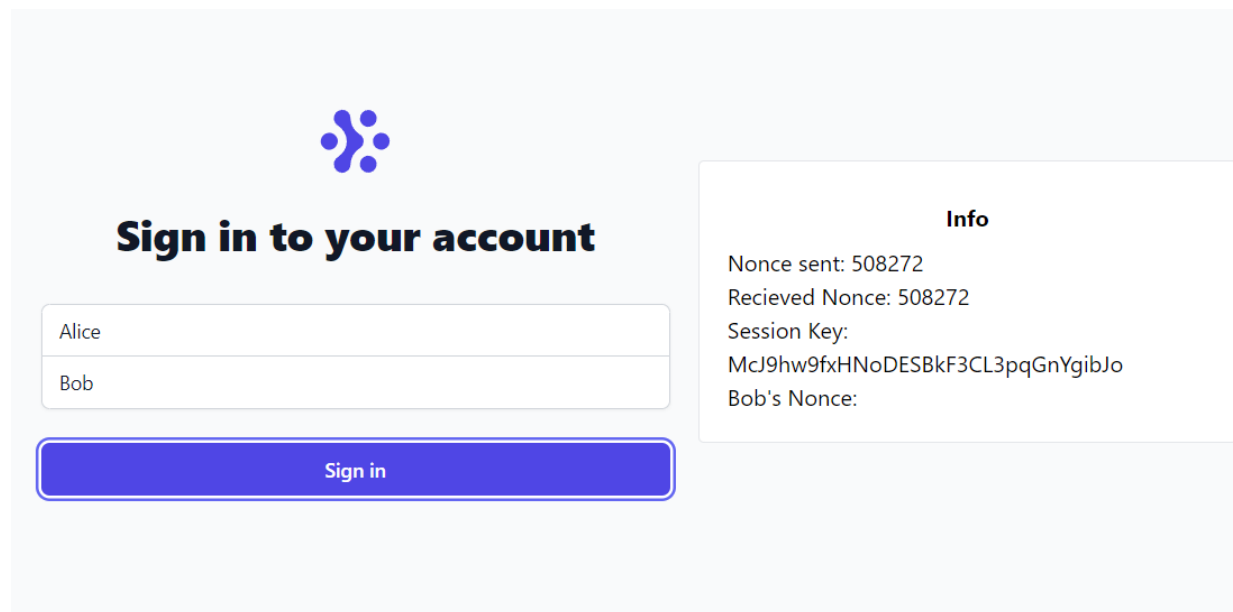
3. Starting the client (Alice) server

- a. Go to frontend folder
- b. Open terminal and run ***npm install***
- c. After installation is complete run ***npm start***

d. This will start the client server at localhost:3000 and a browser window with the login screen should automatically open.

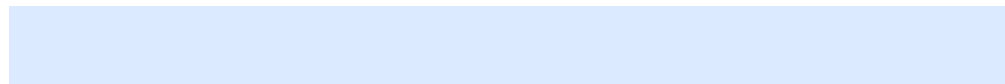
4. Using the app

a. Enter your username and recipient's username and submit



The screenshot shows a web application interface for logging in. At the top center is a purple logo consisting of four dots arranged in a square pattern. Below the logo is the heading "Sign in to your account". Underneath the heading are two input fields: the first contains the text "Alice" and the second contains the text "Bob". Below these fields is a large blue button with the text "Sign in". To the right of the input fields is a white box with a grey border titled "Info". Inside this box, the following text is displayed: "Nonce sent: 508272", "Recieved Nonce: 508272", "Session Key: McJ9hw9fxHNoDESBkF3CL3pqGnYgibJo", and "Bob's Nonce:".

b. The app would show information about conversation with kdc and recipient and eventually when connection is authorised, you will be logged in



You are logged in!