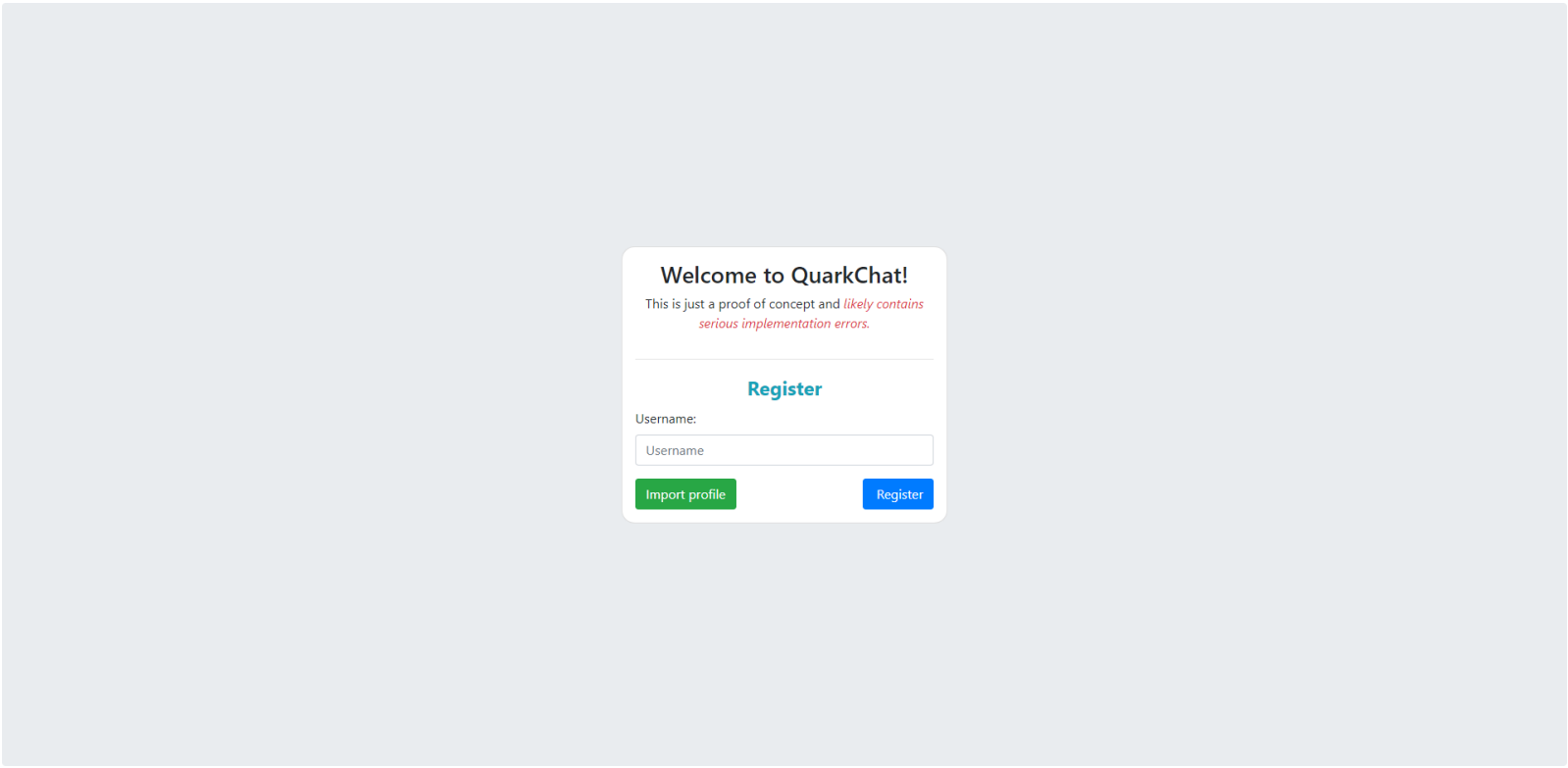# Quark chat - User Manual

The goal of this document is to display the main functionalities of the application Quark chat and how to use it.

Login screen - Import and Register
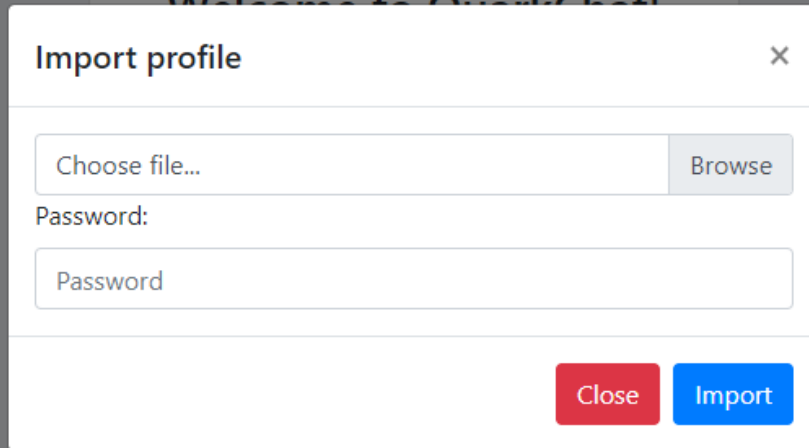
`Image Displaying the Login Page`

1. Register

- You will have to create a new account when you use Quark chat for the first time.
- Think of a username that is alphanumeric and between 3 and 30 characters and click "Register".

2. Import

- If you already used Quark chat and you have an account click on "Import".
- In the new prompt you will have to select the profile file(.qc) generated during the last session after using the option "Export".
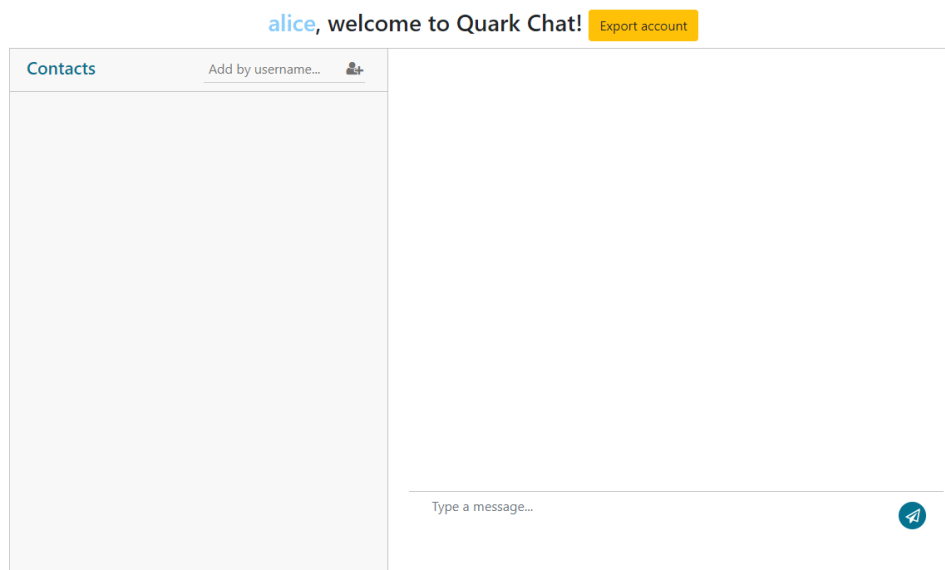- After typing the password(created during export) click "Import".

`Image Displaying the Import Dialog`

Main Page - Adding a User and starting a conversation for the first time

`Image Displaying the Main Page`

Design adapted from the bootsnipp template "Message Chat Box" by Sunil Rajput

- Before you can start a chat, you will need to add some Users to the Contacts List. That is achieved by typing the name of the user in the "Add by username..." field and clicking on the button next to it. Notice that you can only add Users that are already registered in Quark Chat.

`Image Displaying how to add a User`

Contacts

bob

- To start a conversation, select someone from the contacts list by clicking on him. Notice that on top of the list are the people that wrote to you most recently. Messages that you haven't read are with displayed with a bold font.

- When you open the chat with someone for the first time you can see it marked as "Not trusted" in Red.

- To indicate the chat as "Trusted" first you will have to initiate the conversation. That happens automatically after sending a message to the other User.

- To confirm that their public keys are authentic, the two users can meet in person and compare the image generated when they click the red bar. If the two match, they can click the "Trust" button, the red bar becomes green and reads "Trusted" to signify that they have confirmed their identities. If the two images are not the same, then it is likely that their public keys have been tampered with and are possibly a subject to Man-in-the-Middle attack.

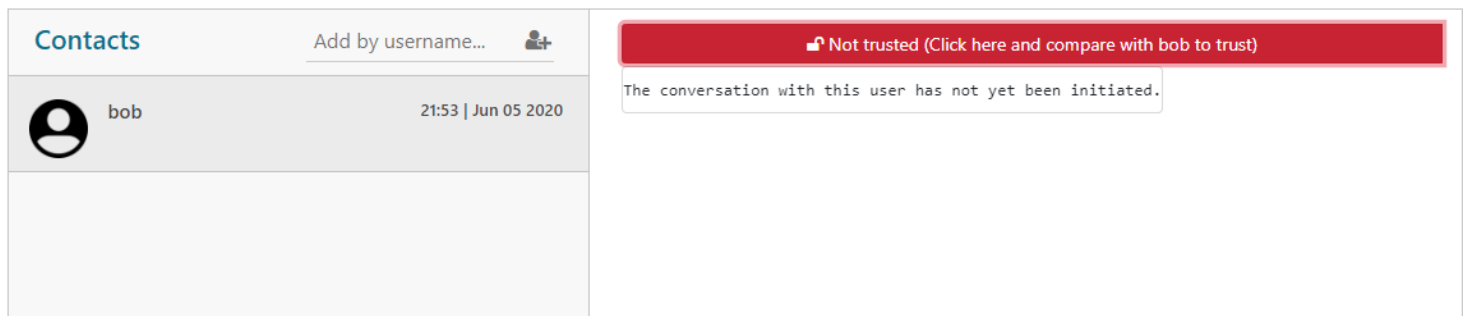`Image Displaying the chat before initialization`

alice, welcome to Quark Chat! Export account

Contacts Add by username...

bob   21:53 | Jun 05 2020

🔓 Not trusted (Click here and compare with bob to trust)

The conversation with this user has not yet been initiated.

`Image Displaying the "randomart" after initialization and before marking the chat as "Trusted"(from Alice's perspective)`

alice, welcome to Quark Chat! Export account

Contacts Add by username...

bob   21:55 | Jun 05 2020
Hello!

🔓 Not trusted (Click here and compare with bob to trust)

```
**=+*+ooo      o+.
*+0B++ o      +.o.
+=.*O.+   o . *.o
*.O+oo    . = o.o.
+@.*.o  S o +. ..
=.B.+..    o oo
*B.+..  . ..
*oo.... + + o
o  Eo.o*.*oo
```
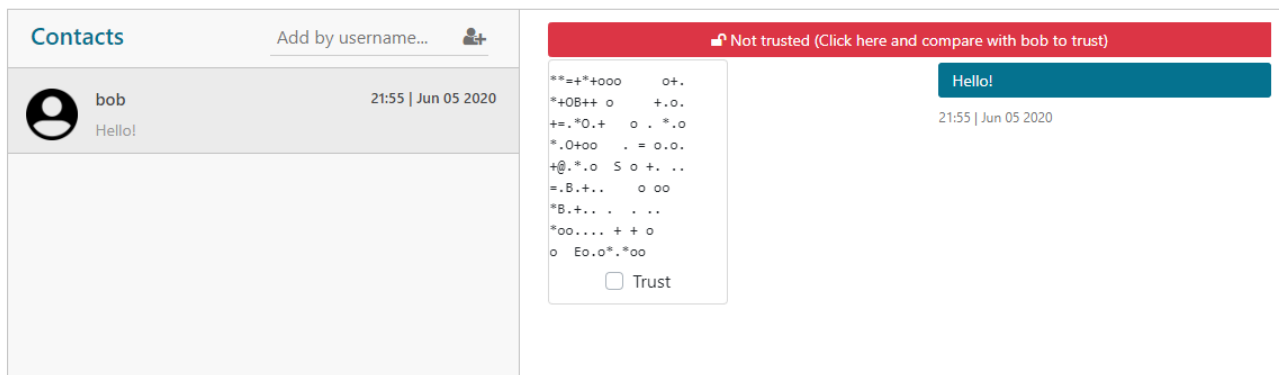
☐ Trust

Hello!

21:55 | Jun 05 2020

`Image Displaying the "randomart" after initialization and before marking the chat as "Trusted"(from Bob's perspective)`

bob, welcome to Quark Chat! Export account
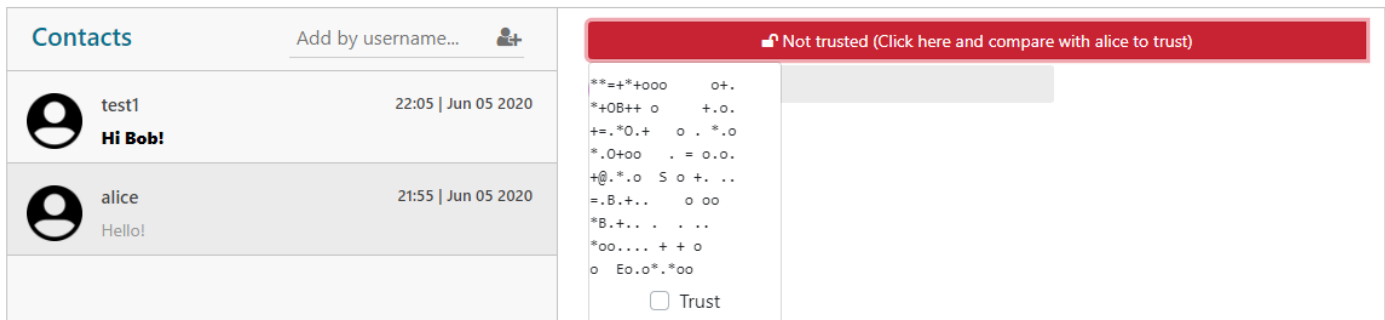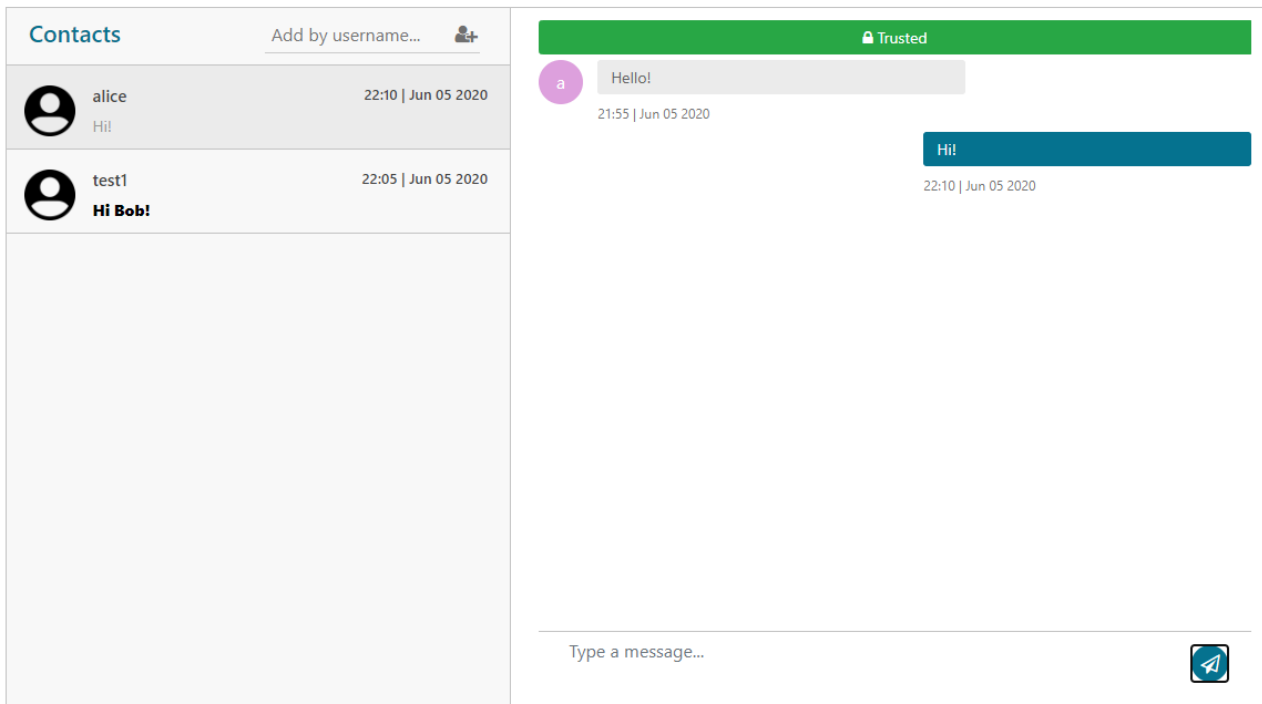
Contacts   Add by username...

test1   22:05 | Jun 05 2020
Hi Bob!

alice   21:55 | Jun 05 2020
Hello!

🔓 Not trusted (Click here and compare with alice to trust)

```
**=+*+ooo      o+.
*+0B++ o      +.o.
+=.*0.+   o . *.o
*.0+oo    . = o.o.
+@.*.o  S o +. ..
=.B.+..     o oo
*B.+.. .  . ..
*oo.... + + o
o  Eo.o*.*oo
```

☐ Trust

Image Displaying the chat after marking it as "Trusted"

bob, welcome to Quark Chat! Export account

Contacts   Add by username...

alice   22:10 | Jun 05 2020
Hi!

test1   22:05 | Jun 05 2020
Hi Bob!

🔒 Trusted

a Hello!
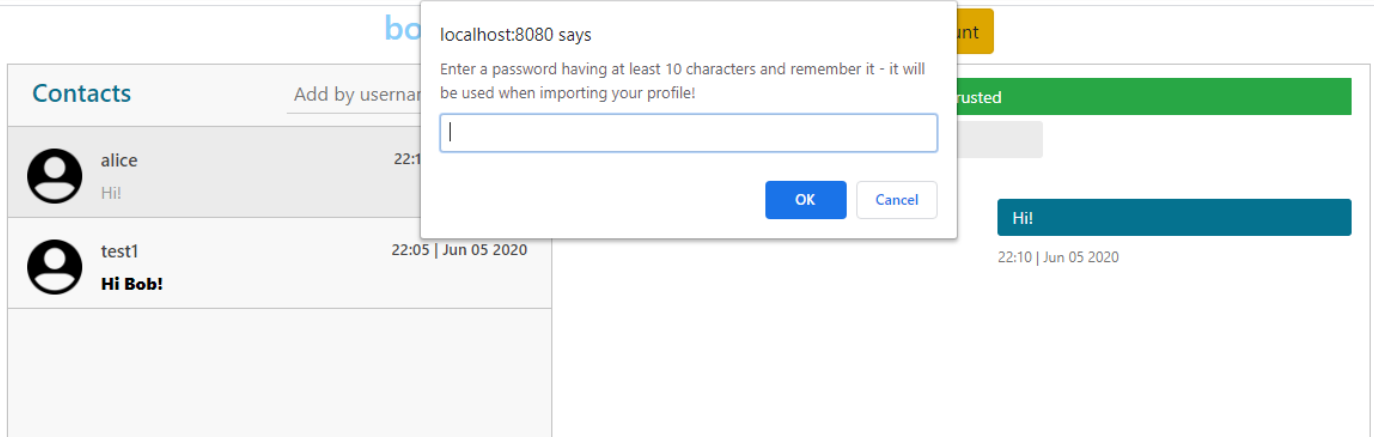21:55 | Jun 05 2020

Hi!
22:10 | Jun 05 2020

Type a message...

Design adapted from the bootsnipp template "Message Chat Box" by Sunil Rajput

Main Page - Exiting the application

- To exit Quark chat click on Export account.
- Export of the account is needed due to the fact that account information is stored only locally(in the browser, rather than in a remote database) and that is the only way to log in into the same account again in the future.

Image Displaying the Export prompt

bo   nt

Contacts	Add by usernai	rusted

alice   22:1
Hi!

Hi!

test1   22:05 | Jun 05 2020
Hi Bob!

22:10 | Jun 05 2020

Benchmarking utility

To benchmark the messaging application on your machine, you can visit `/benchmark` and run the tests

bo   nt

	Add by usernai	rusted

alice   22:1

Hi!

22:10 | Jun 05 2020