

Outchat App

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1. Demo App for firmware v000

The simplified demo app has no pairing procedure.

Any outchat device in range can send and receive messages.

ASCII characters supported so far => objective is to use UTF-8 encoding.

The following characters & strings should not be displayed on the app:

[R>A] = 0x523E41 = message acked by receiver

[R>N] = 0x523E4E = message not acked by received, i.e. lost

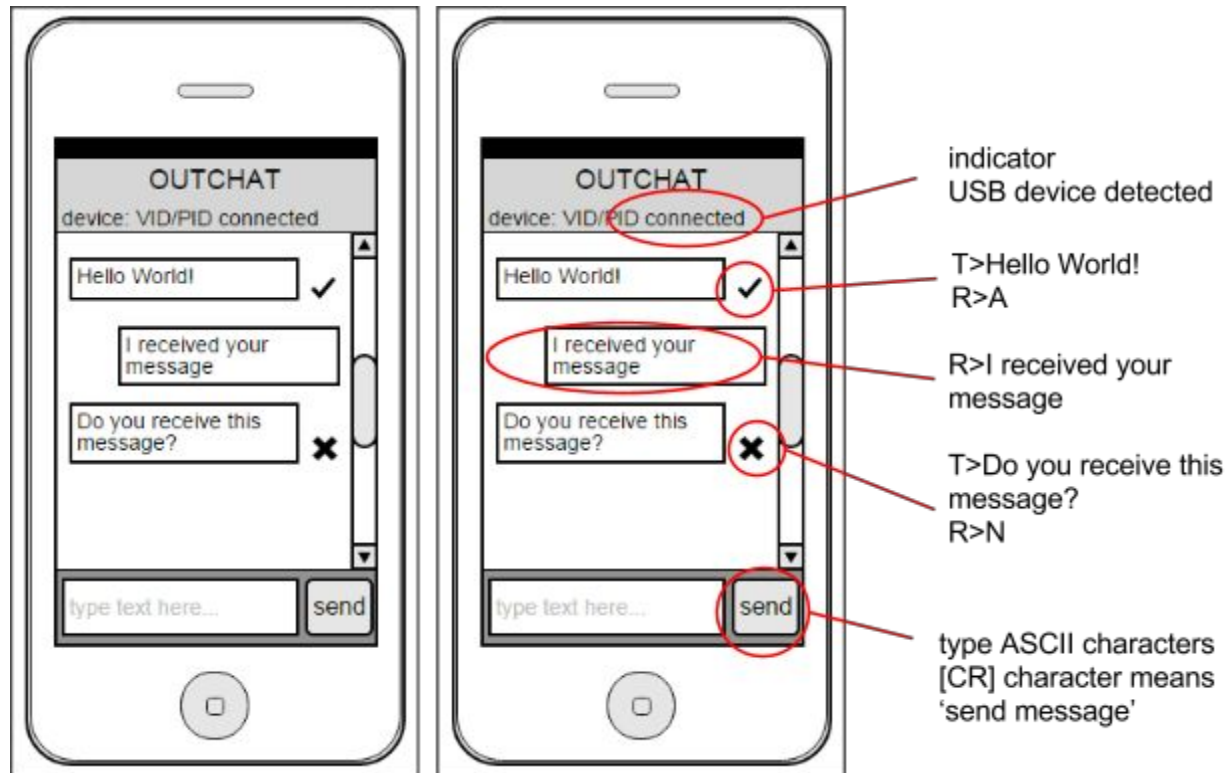
[CR] = 0x0D = command to send message

[T>] = 0x543E = message sent

[R>] = 0x523E = message received

[RSSI>] = radio rssi indicator

[FW>] = firmware version



2. Open topics

Radio Network protocols

Implemented in firmware, check if needed??

- SimpliciTI

User registration

unique UserID (UID) stored by the app

app init

- prompt to define UID
- connection to online SQL database that store all UserIDs

Chat groups

- public (no filtering)
- private (filter UIDs)

Data encapsulation

- Radio packet (managed by firmware)

<header><data><crc><rssi>

- Data packet (managed by app)

<group><owner><sender><receiver1,receiver2,...><message>

Data standard format in app

<https://blog.udemy.com/json-vs-xml/>

- XML => more formal
- JSON => simpler, less overhead, better integration