







AIRCHAT

App Development

"AirChat" is an app to send instant messages via Bluetooth. It safes users from the trouble of finding cellular networks and the internet.

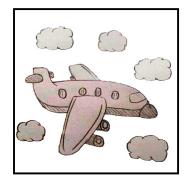
Platform

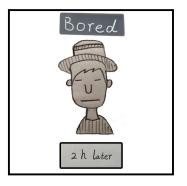
Android 5.0 +

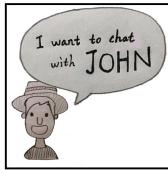
Personal

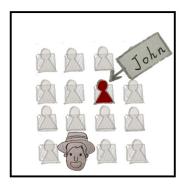
Storyboard + Analysis

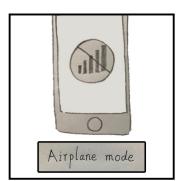
* Need to follow the local airline policies











In flight

Peter feels bored

But it seems not easy to chat

If he can chat via mobile phone*...





- √ High security
- √ Low power consumption
- × Uncommon



- **✓** Common
- \checkmark Long lasting connection
- √ High speed
- Limited effective distance (10m)

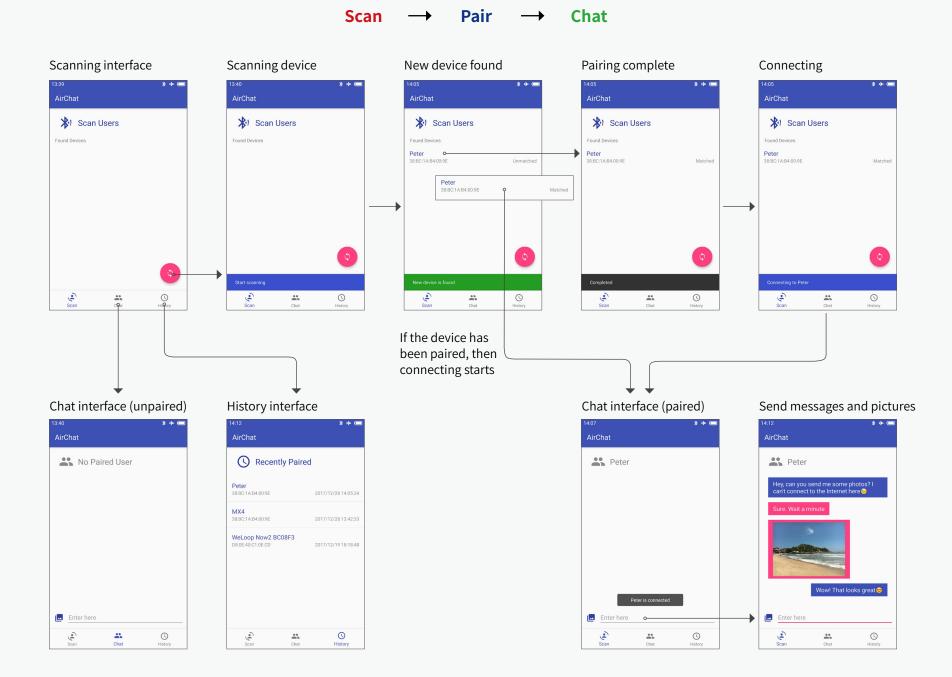
The most feasible solution



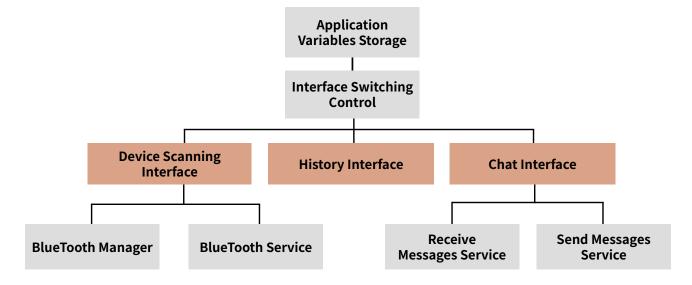
NFC

- ✓ Common
- √ Fast connection
- √ High security
- × Short effective distance (10cm)

User Experience Design



Development

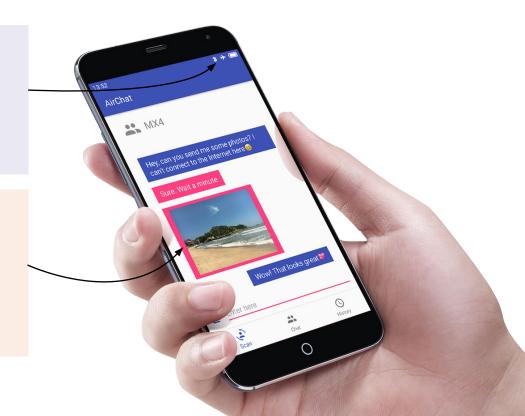


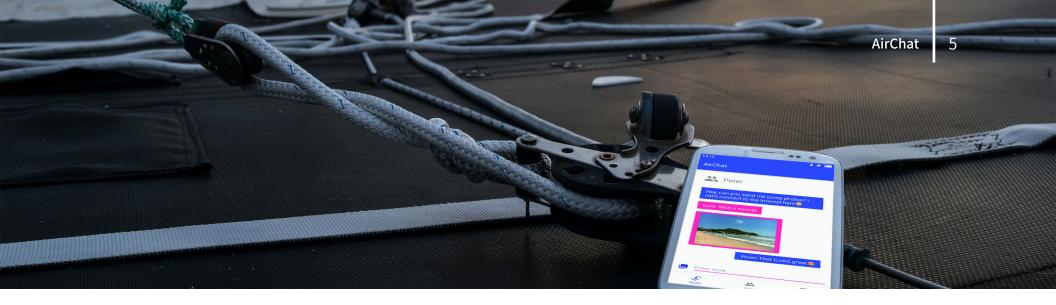
*** Bluetooth Management**

- Search for Bluetooth devices
- Pair with unpaired devices
- Create a Bluetooth server for communication
- Manage Bluetooth connection

☐ Message Management

- Handle the messages that need to be sent
- Display messages and store images
- Record picture transfer progress
- Process and classify the received data into text messages or image messages





Review

AirChat facilitates instant messaging without network, but this solution is not perfect:

- 1. UX and UI designs of the app remain to be further optimized, such as hiding the chat interface when no devices connected.
- 2. The effective distance of Bluetooth is very limited. Even in Bluetooth 5.0, AirChat can only communicate within line-of-sight, which is still far from being a mature product.

