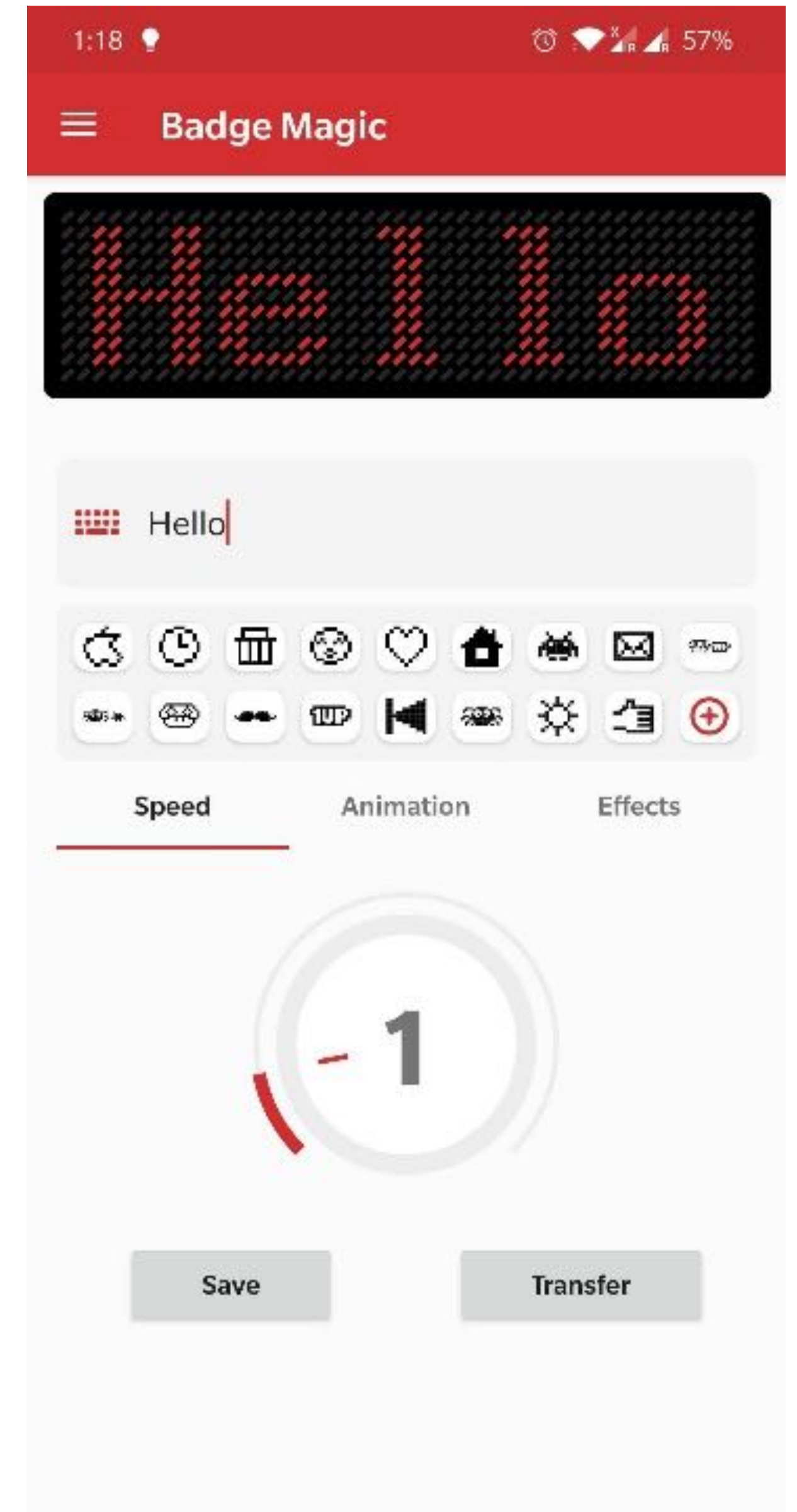# Idea
BadgeMagic for LinuxMobile

- App for Linux Mobile

- Program LED Name Badges via Bluetooth

- Template: BadgeMagic (Android)

BitBlink

Bluetooth

BitBlink

1. Get Bluetooth adapter
2. Scan for devices
3. Connect Badge (name contains "LSLED")
4. Discover Services
5. Find the right Service by the characteristics UUID
6. Send 32 hexadecimal figures per write request
7. Disconnect badge
8. Smile 😊

Bluetooth

BitBlink

77616E67000001010800000000000000000050000000000000000000000000000000000000000023070109383100000000000000000000000000000000000000000386CC6C6FEC6C6C6C60000000000000

Bluetooth
BitBlink

Flashing

77616E670000**01**0108000000000000000005000000000000000000000000000000000002307010938310000000000000000000000000000000000000000386CC6C6FEC6C6C6C60000000000000

Bluetooth

BitBlink

Marquee

77616E67000001**01**08000000000000000005000000000000000000000000000000000000000002307010938310000000000000000000000000000000000000000000386CC6C6FEC6C6C60000000000000

Bluetooth

BitBlink

Mode

77616E6700000101 08000000000000000
0005000000000000000000000000000000
0000000000000023070109383100000000
0000000000000000000000000000000000
00386C6C6FEC6C6C6C600000000000000

Bluetooth

BitBlink

Size

77616E6700000010108000000000000000
0005000000000000000000000000000000
00000000000023070109383100000000
00000000000000000000000000000000
00386CC6C6FEC6C6C6C600000000000000

Bluetooth

BitBlink

Timestamp

77616E670000010108000000000000
0005000000000000000000000000000
00000000000023070109383100000000
000000000000000000000000000000
00386CC6C6FEC6C6C6C60000000000

Bluetooth
BitBlink

77616E6700000101080000000000000000
000500000000000000000000000000000
00000000000023070109383100000000
00000000000000000000000000000000
00386CC6C6FEC6C6C6C6000000000000

Bluetooth
BitBlink

Text + Inversion

77616E6700000101080000000000000
00050000000000000000000000000000
00000000000000230701093831000000000
00000000000000000000000000000000000
00386CC6C6FEC6C6C6C600000000000

Bluetooth
BitBlink

0x00:	00000000	00000000
0x38:	00111000	00**111**000
0x6C:	01101100	0**11**0**11**00
0xC6:	11000110	**11**000**11**0
0xC6:	11000110	**11**000**11**0
0xFE:	11111110	**1111111**0
0xC6:	11000110	**11**000**11**0
0xC6:	11000110	**11**000**11**0
0xC6:	11000110	**11**000**11**0
0xC6:	11000110	**11**000**11**0
0x00:	00000000	00000000

Text + Inversion

77616E670000010108000000000000000

0005000000000000000000000000000000

000000000002307010938310000000000

00000000000000000000000000000000

00386CC6C6FEC6C6C6C6000000000000

Bluetooth
BitBlink

Padding

77616E670000010108000000000000000005000000000000000000000000000000000000230701093831000000000000000000000000000000000000386CC6C6FEC6C6C6C600**0000000000**
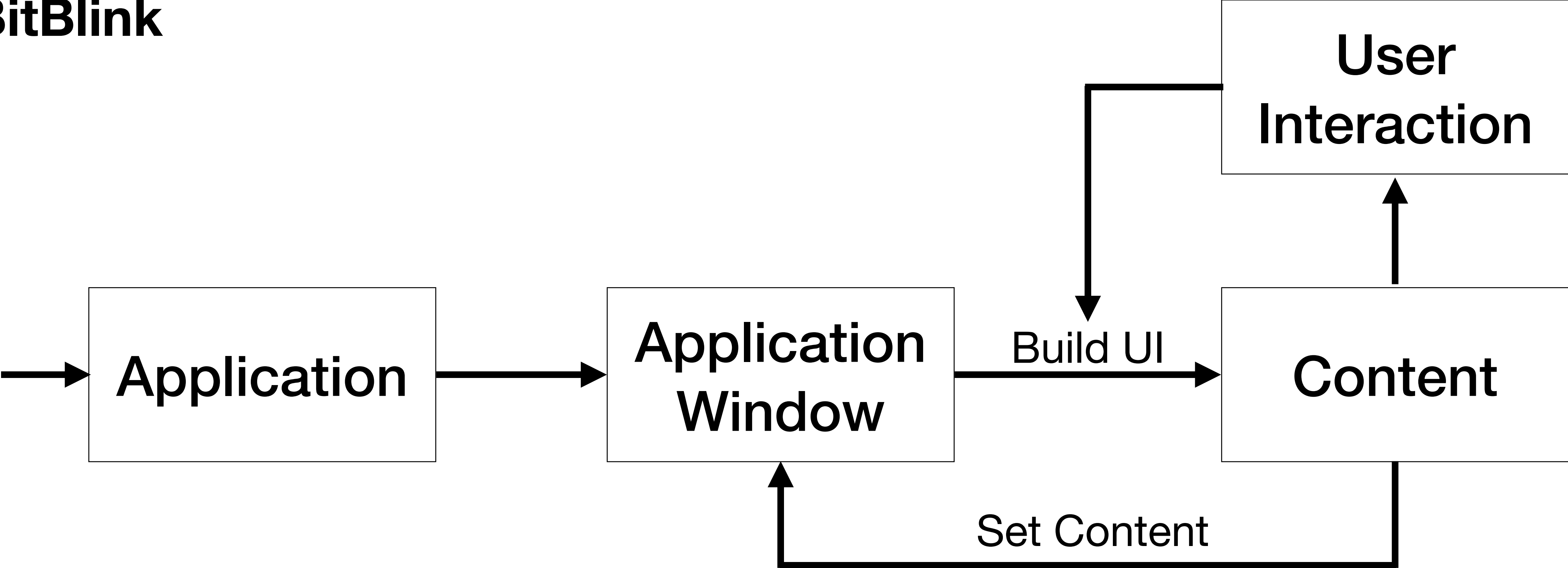
Storage
BitBlink

- Save already designed messages in subdirectory

- Save as JSON using **_serde_** crate

- Stored as hex-string

- Compatible with BadgeMagic for Android

User Interface
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Feature Roadmap
BitBlink

☐ Tier 0 (Must Have): Send Text via Bluetooth, Adjust Speed etc., save banners

☐ Tier 1: Add predefined images to banner

☐ Tier 2: Extend functionality to USB, make the App cross-platform: macOS, Windows

☐ Tier 3: Add custom clipart, convert images

☐ Tier 4: Share your banners, UI Improvements Animations

Feature Roadmap

BitBlink

☑ Tier 0 (Must Have): Send Text via Bluetooth, Adjust Speed etc., save banners

☐ Tier 0.5: Send multiple messages (COMING SOON!)

☑ Tier 2: Make the App cross-platform: macOS

☑ Tier 4: Share your banners (via JSON file), UI Improvements

Feel free to contribute 😉

https://github.com/JoGehring/bit_blink.git

Other TO-DOs
BitBlink

☑ Basic Packaging

☐ Improve Packaging

☐ Display as „real" App with Icon

☐ Share on https://linuxphoneapps.org