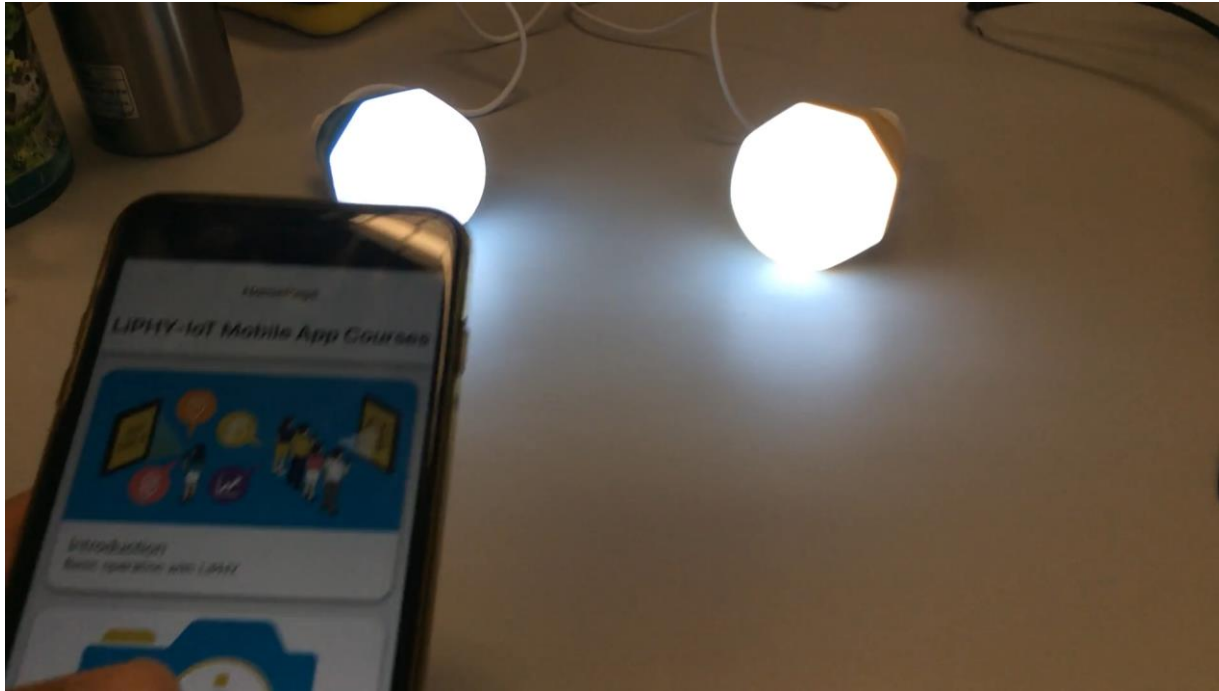# LiPHY™

Driving the Future of Smart Lighting

Visible Light Communication - Technology Solution Provider
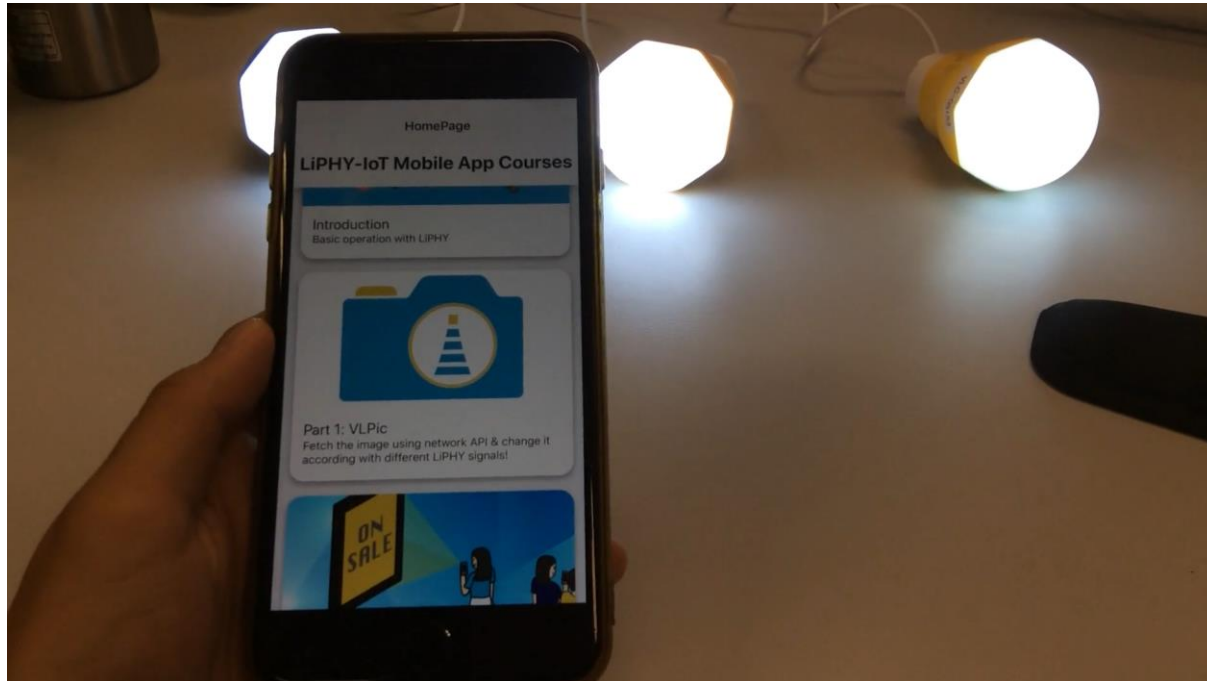
LiPHY React Native App Template

Introduction to LiPHY Scanning

- Basic scanning operation with LiPHY Hardware Kit

VLPic

- Change the picture with LiPHY scanning and online image API

VL**GIF**

➢ **Display GIF images when VLC is scanned**

- **Start scanning VLC → GIF starts playing**
- **Stop scanning VLC → GIF stops playing**

```
onLightScan = () => {

    startplaying(Gif)

}
```

➢ **Show different GIFs for different Light IDs**

```
onLightScan = () => {
  if(lightID == 1 ){

    display(Gif_1)

  }else if(lightID == 2){

    display(Gif_2)

  }

}
```
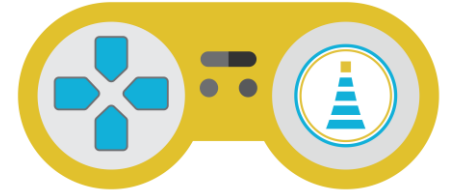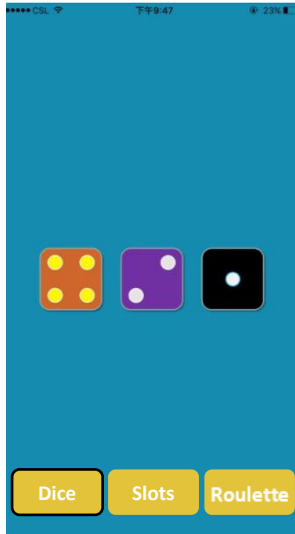
VLGif

- Play a hidden GIF by scanning LiPHY lights
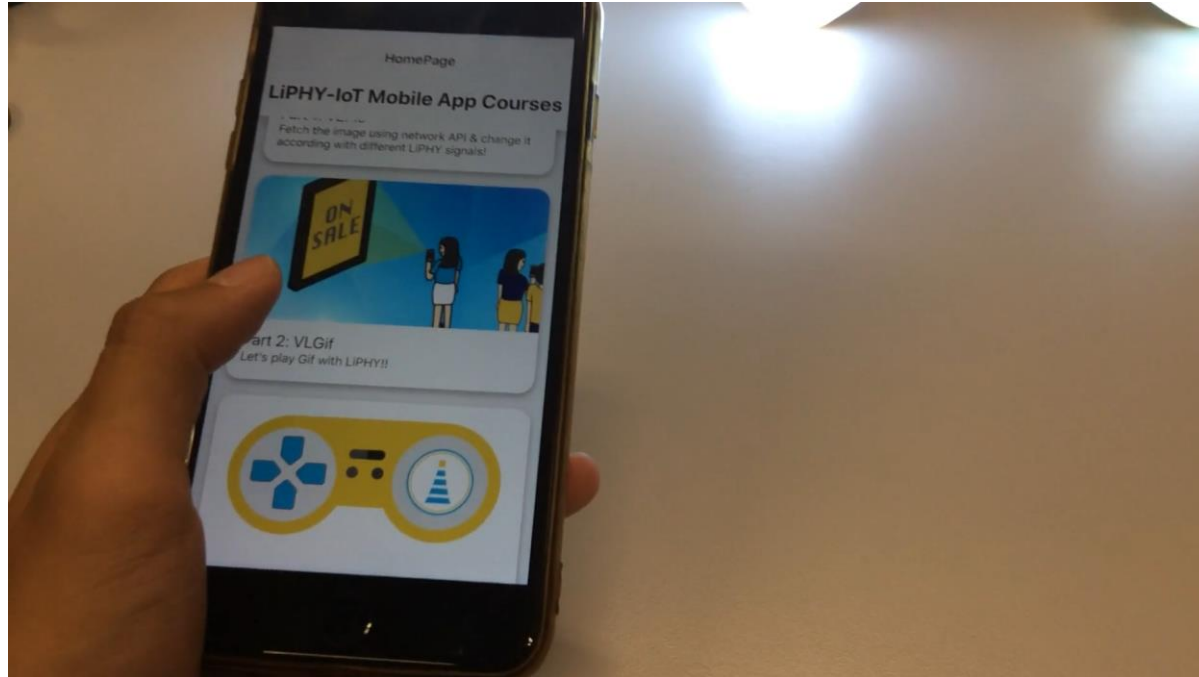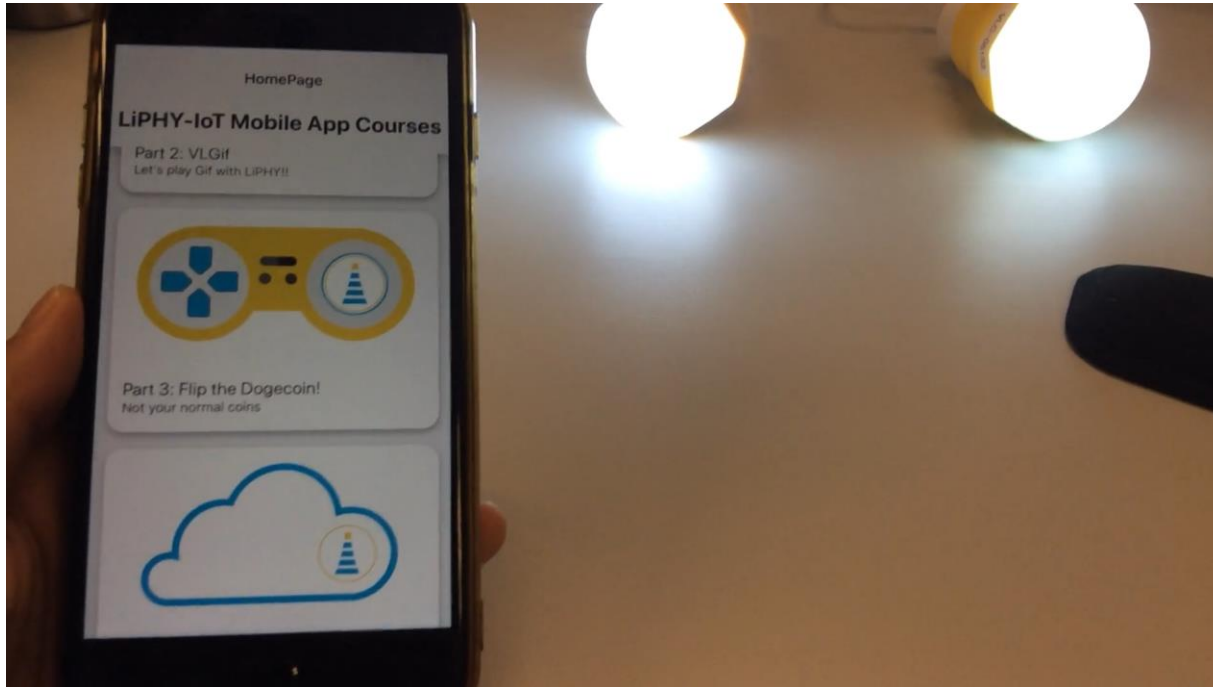
VLGame

- ➢ **Play the game when VLC is scanned**
  - • **LiPHY Dice**
  - • **LiPHY Roulette**
  - • **LiPHY slots**

- ➢ **Start scanning VLC → starts playing**
- ➢ **Stop scanning VLC → stops playing**

Flip the dogecoin!

- Flip the coin by scanning different LiPHY lights

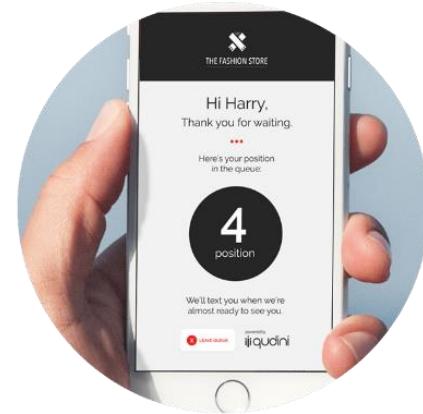# React-Native course on GitLab

URL: https://gitlab.com/liphy-stem
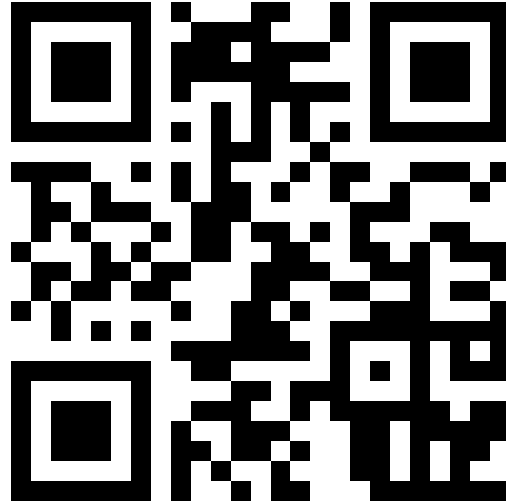
VL Apps Ideas

- LiPHY Scanner
- VLCheckin
- VLGif
- VLGame (Flip the dogecoin)
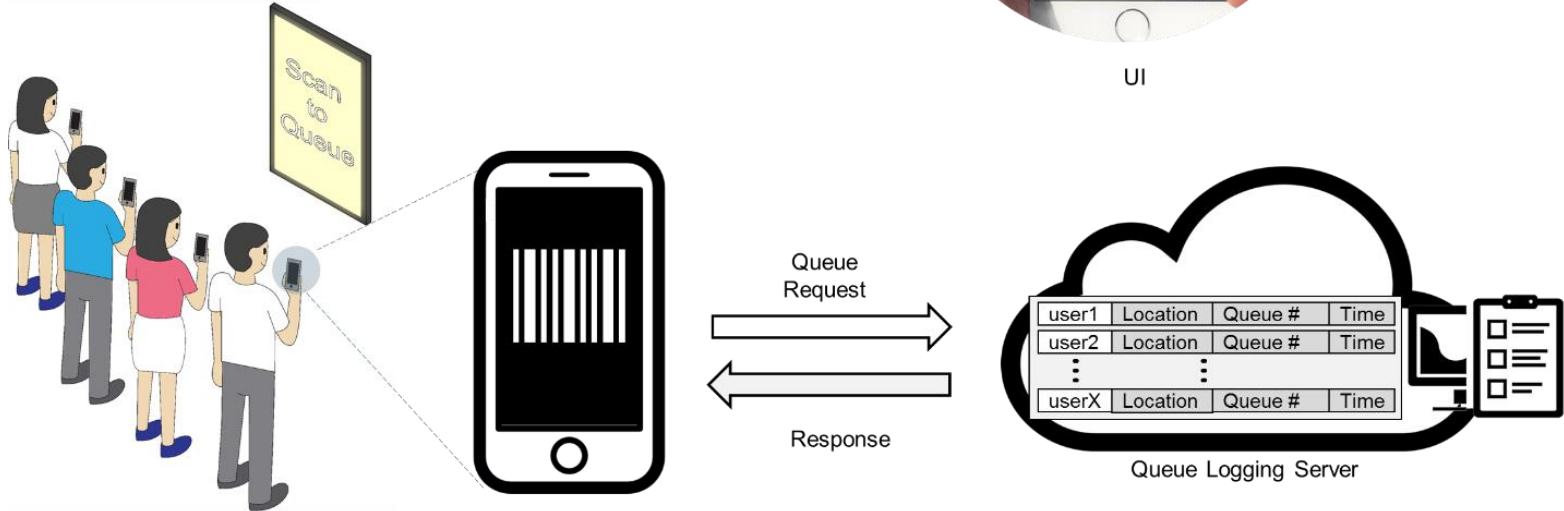- VLQueuing
- VLChatting
- VLTracking
- VLParking
- VLPayment

VL**Queue**

VLC-based queue management system.

- **Scan the light to register in the queue.**
- **If call-for-service is missed, scan again to get back in the queue.**
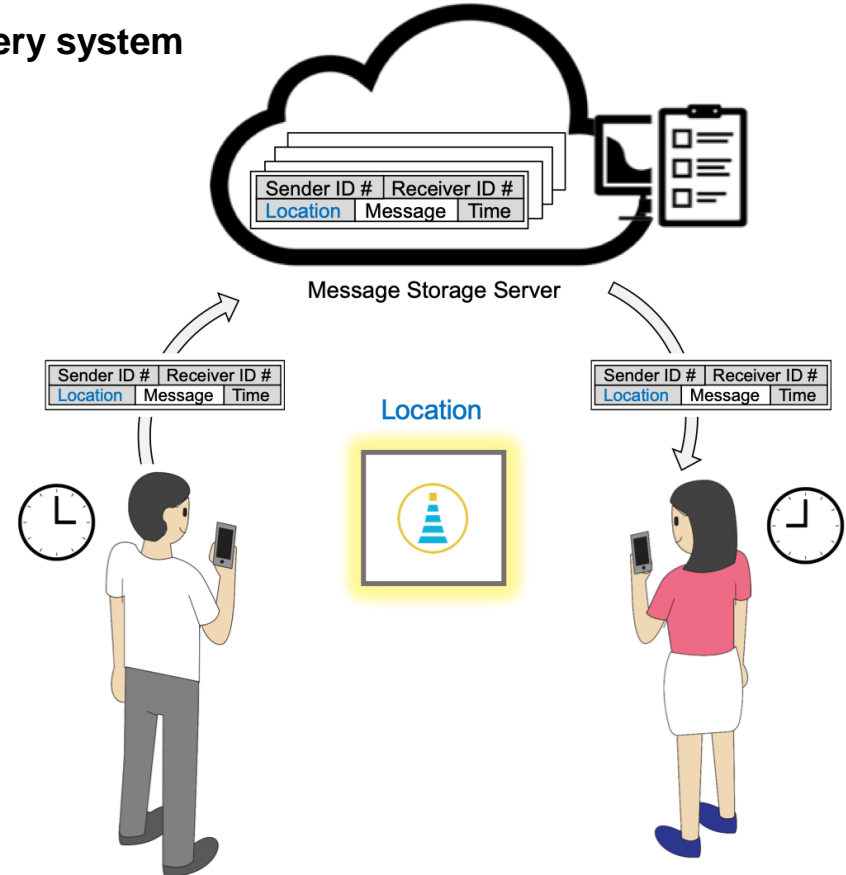- **Recalculate queue based on the amount of time since the call was missed.**

UI

Queue Request

Response

user1	Location	Queue #	Time
user2	Location	Queue #	Time
⋮	⋮		
userX	Location	Queue #	Time

Queue Logging Server

VLChat

Time and location-based personalized message delivery system

➢ **Sender**
1. **Scan a light**
2. **Upload a message, with delivery time and recipient.**

➢ **Receiver**
1. **Scan the light**
2. **Check the time and identity of the scanner and deliver the message**

Sender ID #	Receiver ID #
Location	Message	Time

Message Storage Server

Sender ID #	Receiver ID #
Location	Message	Time

Location

Sender ID #	Receiver ID #
Location	Message	Time

VLPlay

➢ **Display one of the following files when VLC is scanned from the users' phone library**
- **Gif**
- **Video**
- **Song**

➢ **Start scanning VLC → Starts playing**
➢ **Stop scanning VLC → Stops playing**
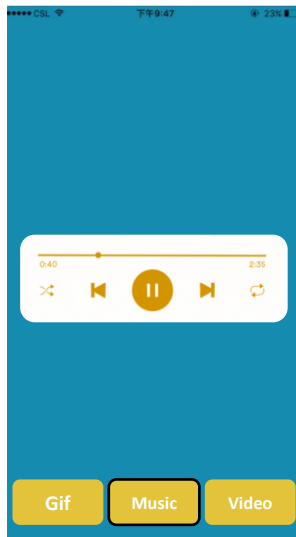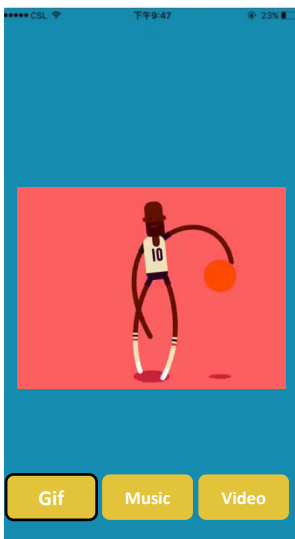
Thank You

Contact Us

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LiPHY APP

Try out our LiPHY application on iOS and Android