chischort@gmail.com
+855 (81) 977 296

Facebook: ChisChort

# CHISCHORT

## SOFTWARE
## DESIGN
## DOCUMENTATION

This is the version 1 of ChisChort (v1.0)
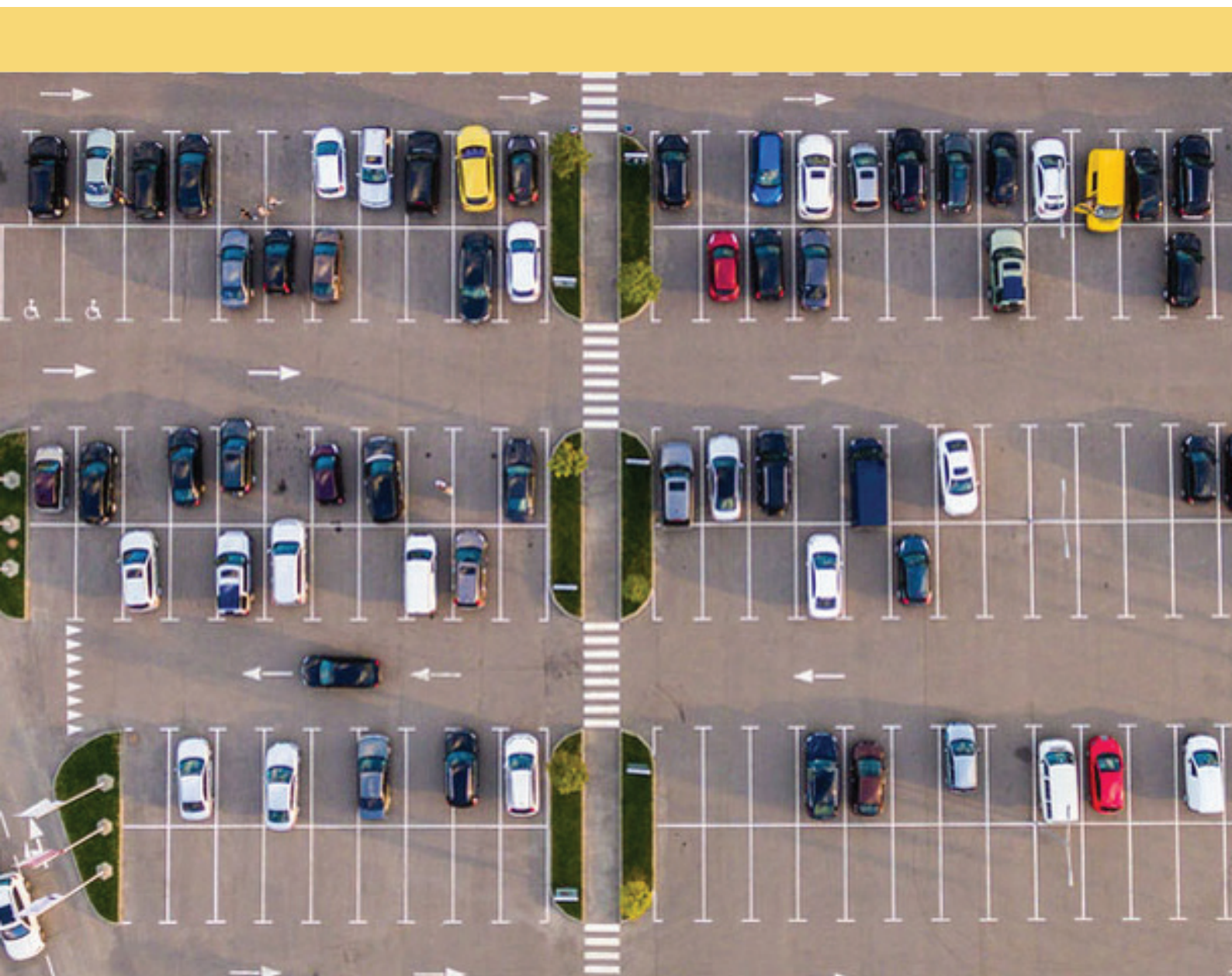
# TABLE Ø CONTENT

# 01

## Description

What is actually chischort?

# Description

ChisChort = ជិះចត
* Chis=Riding
* Chort=Parking

To define ChisChort, all information gathered to formed what actually ChisChort means.

It is a digital integration parking lanes + QR Code + everyone can be used without installation of any application or software.

In a nutshell, ChisChort is a digital parking service in Cambodia, which can be used by everyone without installing mobile application or other software.

# 02

## UI / UX + Design

What ChisChort looks like?

# **User** Interface

## Analyse

Gathering all the data and analyse for the posibility. ChisChort will be the web application that everyone can be used.

Why do we choose this path?

As ChisChort is a startup, which will be not recognizable at the first start. So, we making it as an everyone can used platform will be a great choice for marketing used by Google (See, Think, Do, Care). After we reach a certain KPI (Key Performance Indicator), ChisChort will be immigrated to a mobile application with similar UI, but better UX.

## Branding Design

Branding is really important for every startup. Here is what Chis-Chort looks and feels different from others parking service.

**Color**

**Gradient**

Cc

Digital Parking
Parking
Parking Ticket

## Inconsolata Font Type

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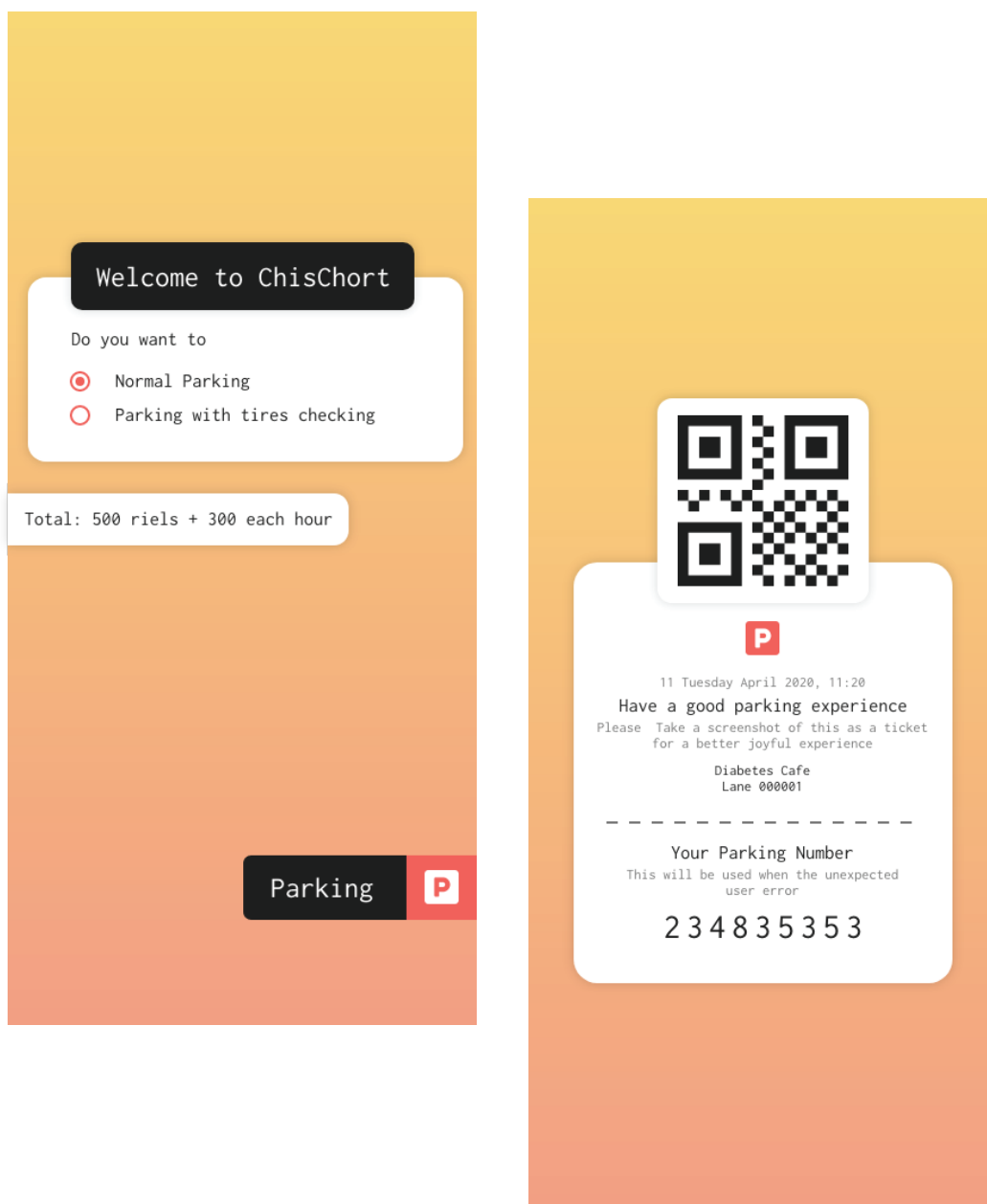
1232470157309451707530017504170

# Design Concept

Branding is really important for every startup. Here is what Chis-Chort looks and feels different from others parking service.

## Parking + Ticket UI

ChisChort color is chosen to be gradient color to make it feel more modern. Since most of users will be using phone, this UI has only capability toward mobile only.
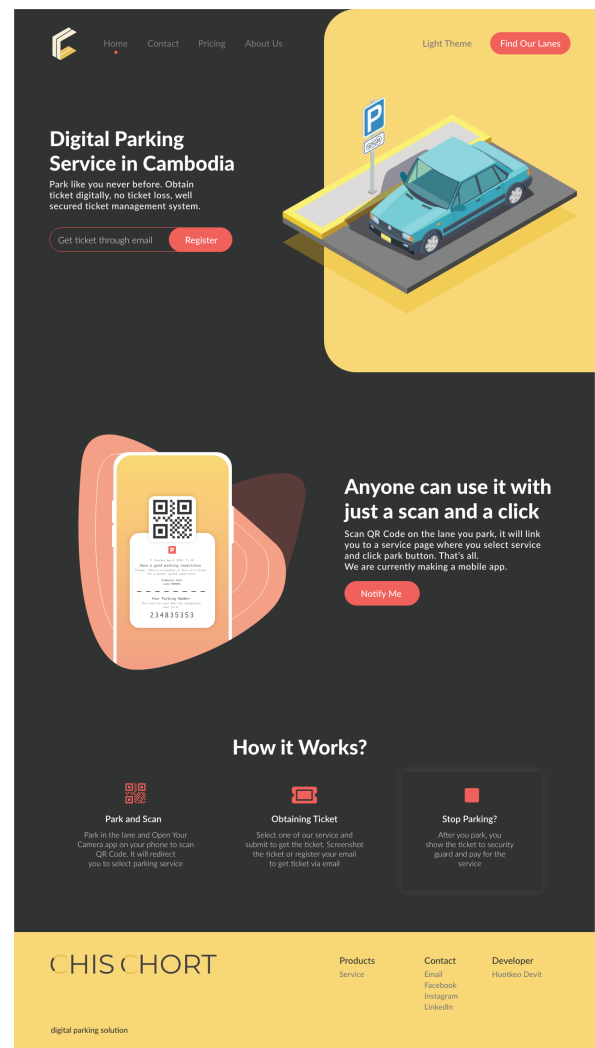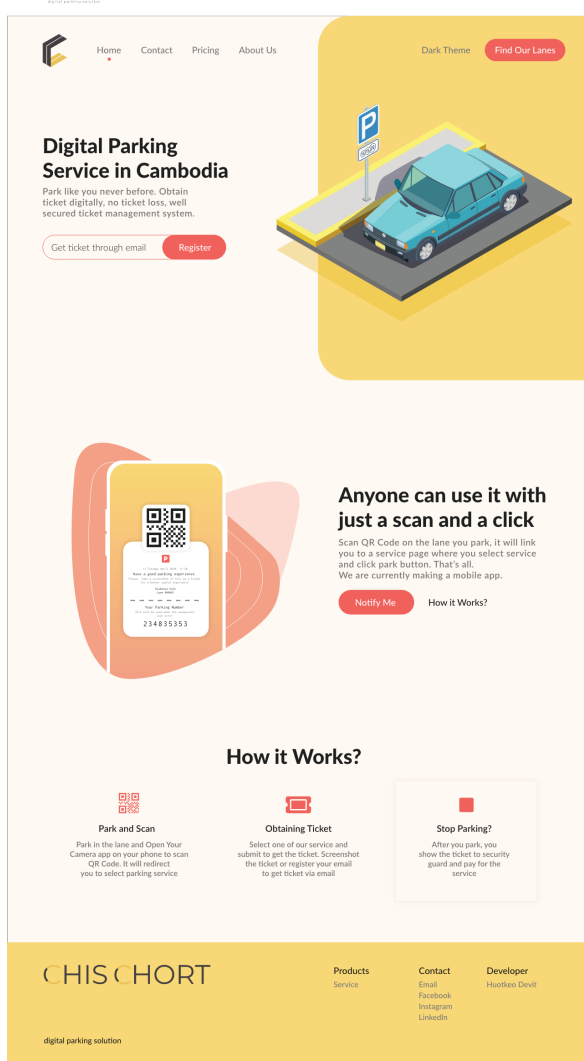
# Home Page Light + Dark

Unlike parking and ticket UI, this is capabled with any kinds of media (phone, ipad, laptop). As this homepage play important role in user experience, making is as good as possible is a great choice.

Why important?

We have a SMTP email sending service for ticket on the homepage registration. This is for people who like to forgot to screenshot or think that screenshot process is the worst experience for them

# User Experience

## Analyse

User experience can be learnt and analyse later after the deployment, it will give more accuracy on what user wants and needs. The main UX on our mobile is mostly focus on the delivering the ticket reliably. Thus register the email on the ChisChort homepage is a massive improvement on user experience.

After deployment we can get the data to enchance our software experience
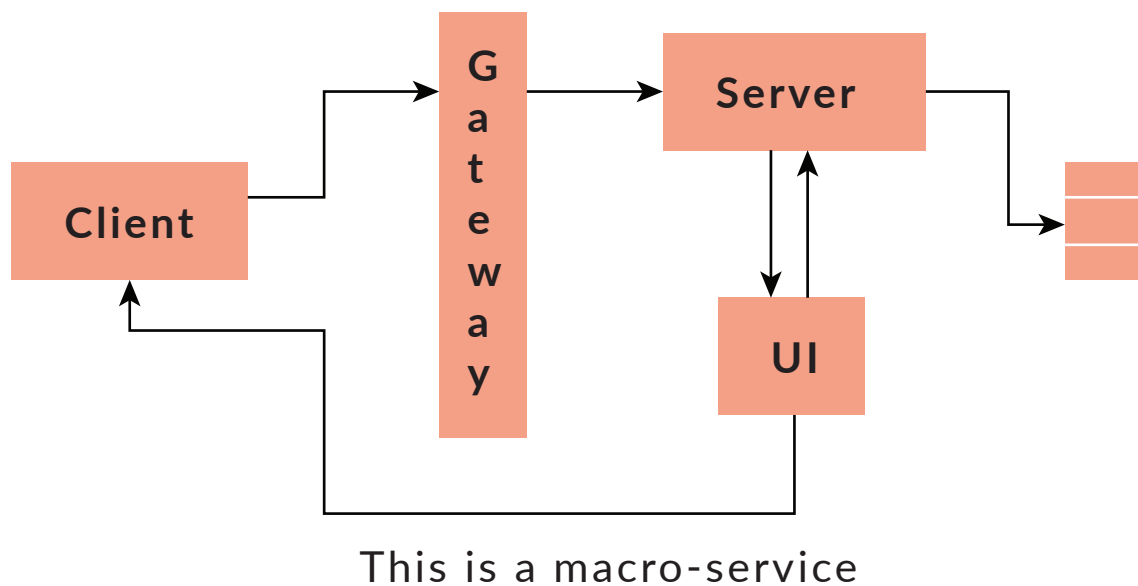
# 03

## System Overview

How will ChisChort perform?

# System Overview

## Functionalities

- Parking with QR Code Ticket
- Secured hashed ticket
- Base64 image QR Code for better security (SEO QR Code problem)
- Add lanes with 1 click
- Authentication
- Ticket Scanner
- SMTP ticket sending over email

## Details



This is a macro-service

## Purposes

- Create a convenient parking service
- Prevent ticket loss
- Parking modernization
- Make Phnom Penh city modern
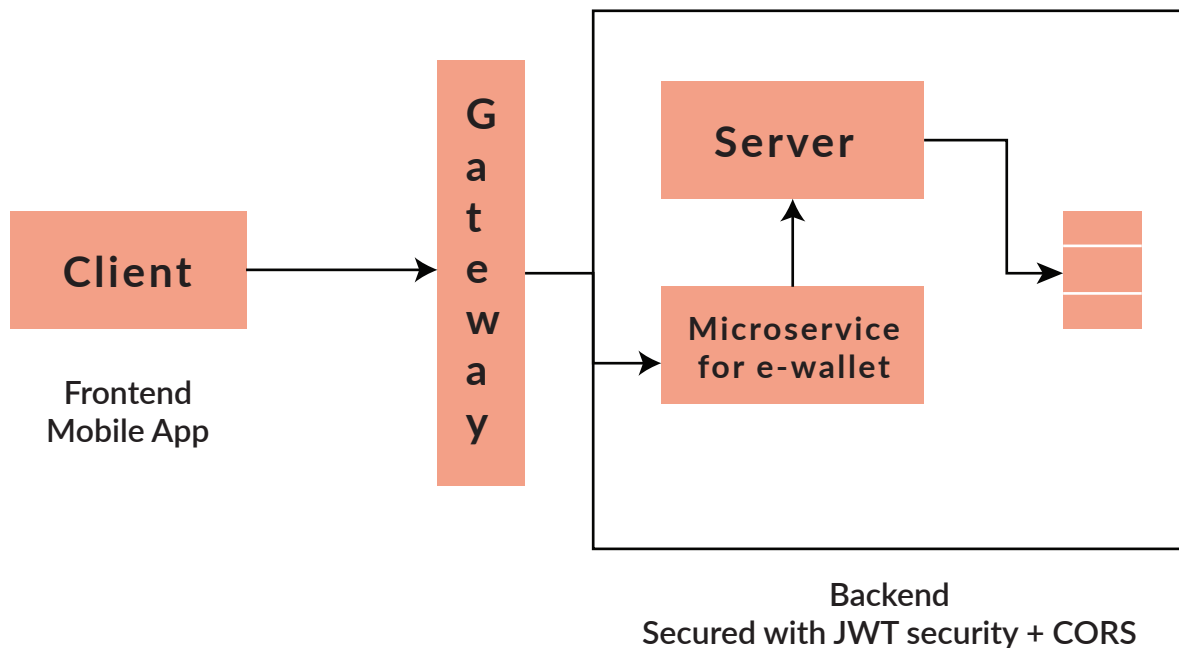
# Worst Case Senario

- User interface integrates with Service can be insecure
- Lane QR Code is not dynamically generated, random people can click and stuck in our system, bad user experience for next users
- Basic Authentication on HTTPS is not fully secured, but usable

# Additional Software

Mobile application as an e-wall:

This will be developed not only by CTO, but also hiring freelancing university stuffs who are familiar with User Interface development with Flutter framework, which can be used by 2 platforms (iOS and Andriod).

**The flow:**



Backend
Secured with JWT security + CORS

# 04

## Cost

How much will all the development cost?

# Cost

As the first web-based software have already developed by CTO, **Huotkeo Devit,** which means the web-based software is free. However, as a programmer, we need to work with other people to enchance our work. So, ChisChort decides to hire programmers as freelance university students for the mobile app user interface. Most important save is that we have product designer CCO, **Chan Darareaksmey** and CTO work together to create a pleasant look and feel to the mobile app design.

*Freelancer: 500$ per project* (3 pages of mobiles, Home,  deposition with visa, QR Code Scan Page)
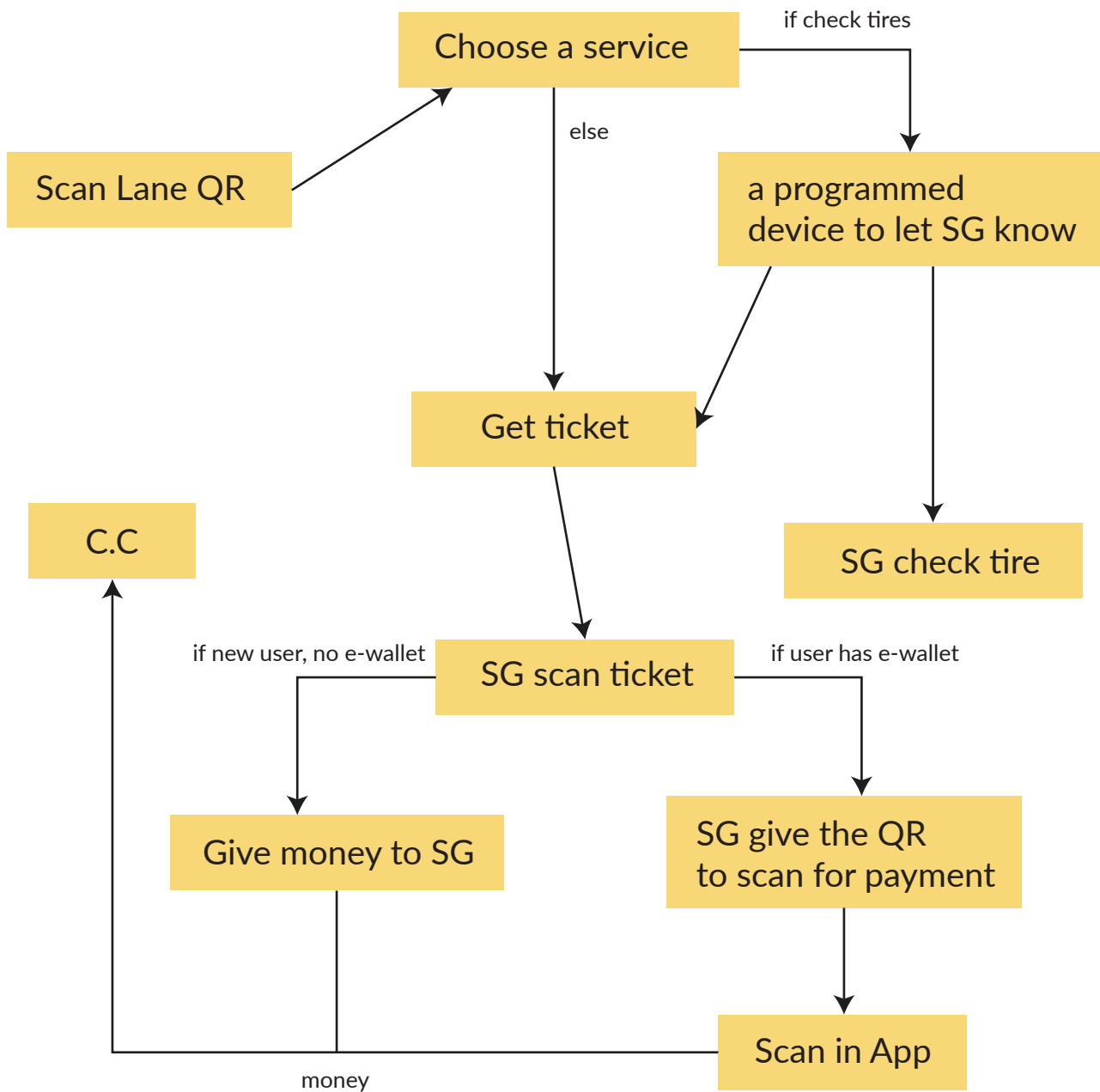
## System last prototype

https://github.com/davidhuotkeo/chischort-parking-system

# 0 5

## User Flow

What is the system in user perspective?

# User Flow

The graph below describes the user flow.

Choose a service → *if check tires* → a programmed device to let SG know

Scan Lane QR → Choose a service

Choose a service → *else* → Get ticket

a programmed device to let SG know → Get ticket

a programmed device to let SG know → SG check tire

Get ticket → SG scan ticket

SG scan ticket → *if new user, no e-wallet* → Give money to SG

SG scan ticket → *if user has e-wallet* → SG give the QR to scan for payment

SG give the QR to scan for payment → Scan in App

Give money to SG → *money* → C.C

Scan in App → C.C

** CC - ChisChort
** SG - Security