

iLeaves

AppMaster 2020 Intern Project

Eileen Huang 2020/07/10

# AGENDA

Introduction

How to use

How to clone

To Do

# Introduction

# iLeaves

## About his project

iLeaves is a **Human Resource Management Application** based on **LINE**, which is the most popular mobile messaging app in Taiwan. This application was developed using **ReactJS** and **NodeJS** and connected with LINE through the **LINE Messaging API**. Users can access all features via LINE without downloading an additional app.



# iLeaves

## About this project

An **employee** can manage their **leaves** and clock in their **attendance** with GPS location. A **supervisor** can supervise their team members' leave applications and track their attendance. A supervisor is also an employee. iLeaves will **notify** related persons via LINE when necessary (e.g. when a leave request is made or a substitute employee is assigned).



# iLeaves

## HR

### API Calls

- Apply for a business account
- Create a department
- Create an employee
- Assign a supervisor

#### Staff

##### Create a New Staff Account >

You may create a new business account using this action.

##### Update a Staff Account >

You may update an existing staff account using this action.

##### Get a Staff Account >

You may get an existing staff account detail using this action.

##### Delete Staff >

You may delete staff account using this action.

# iLeaves

## Employee/Supervisor

- Sign In
- Leave Application
- Leave Approval
- Leave Management
- Leave Approval Management
- Clock In/Out
- Setting



How to use



# How To Use Start

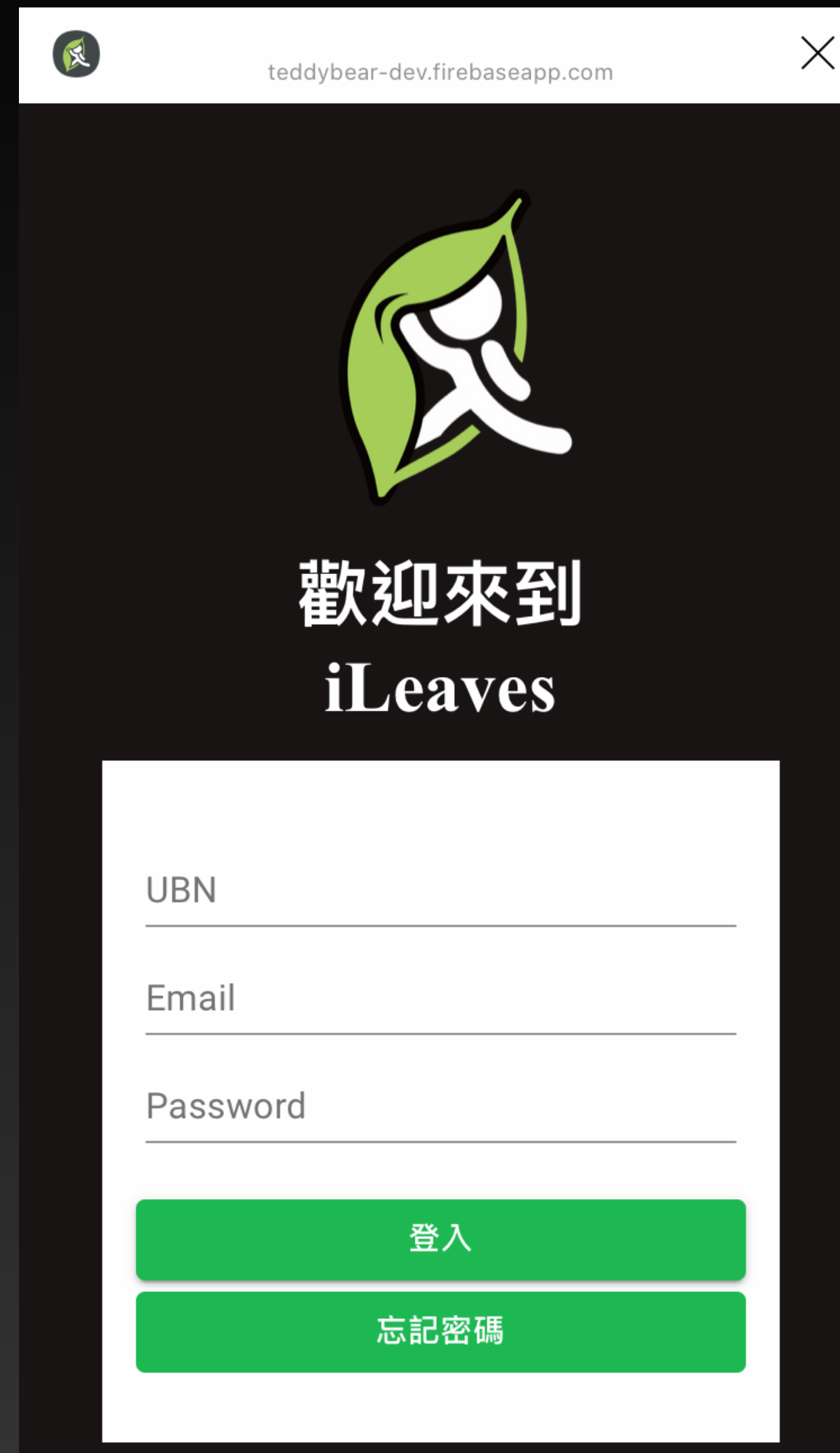
- Please join iLeaves LINE official account @567dgqyu to access the following features.



# How To Use

## Sign In

- Sign In: UBN+Email+Password
- Forget Password
- First Sign-in
  - Automatically switch to the **Main Menu**
- Automatically send a password reset email

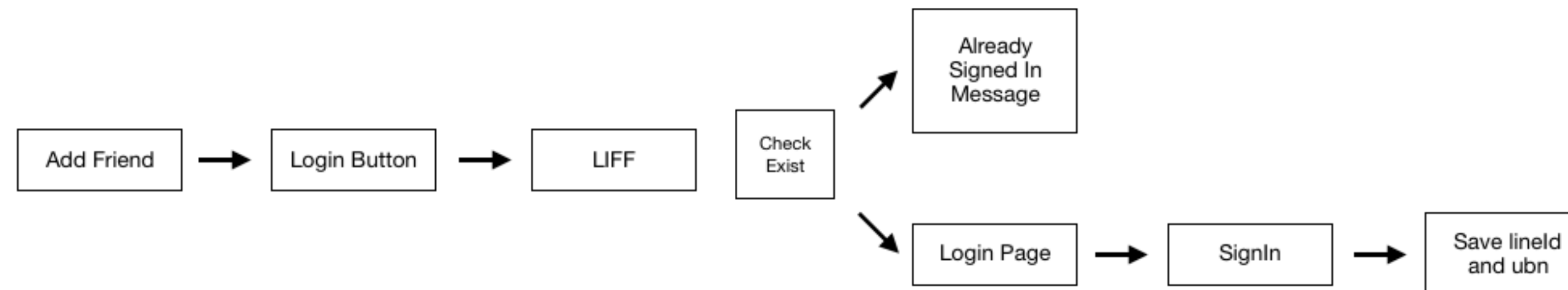


The screenshot shows a web browser window with the URL 'teddybear-dev.firebaseio.com'. The page features a logo of a person inside a green leaf. Below the logo, the text '歡迎來到 iLeaves' (Welcome to iLeaves) is displayed. A white login form is centered on the page, containing three input fields labeled 'UBN', 'Email', and 'Password'. Below these fields are two green buttons: '登入' (Login) and '忘記密碼' (Forgot Password).

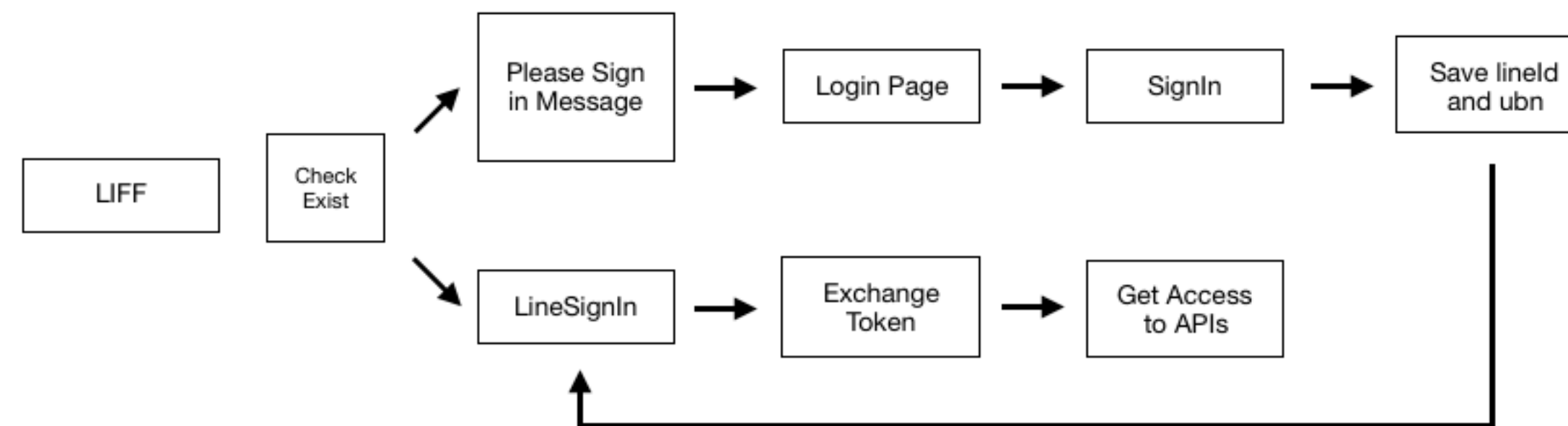


# How To Use Sign In

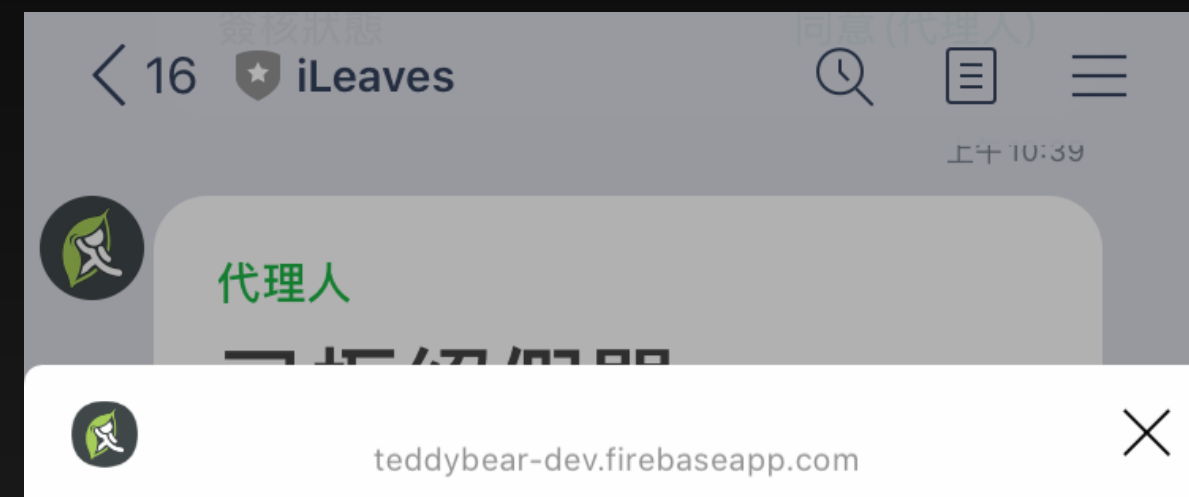
## Login Process



## Authentication Process



# How To use Leave Application



開始日期  
2020-07-09

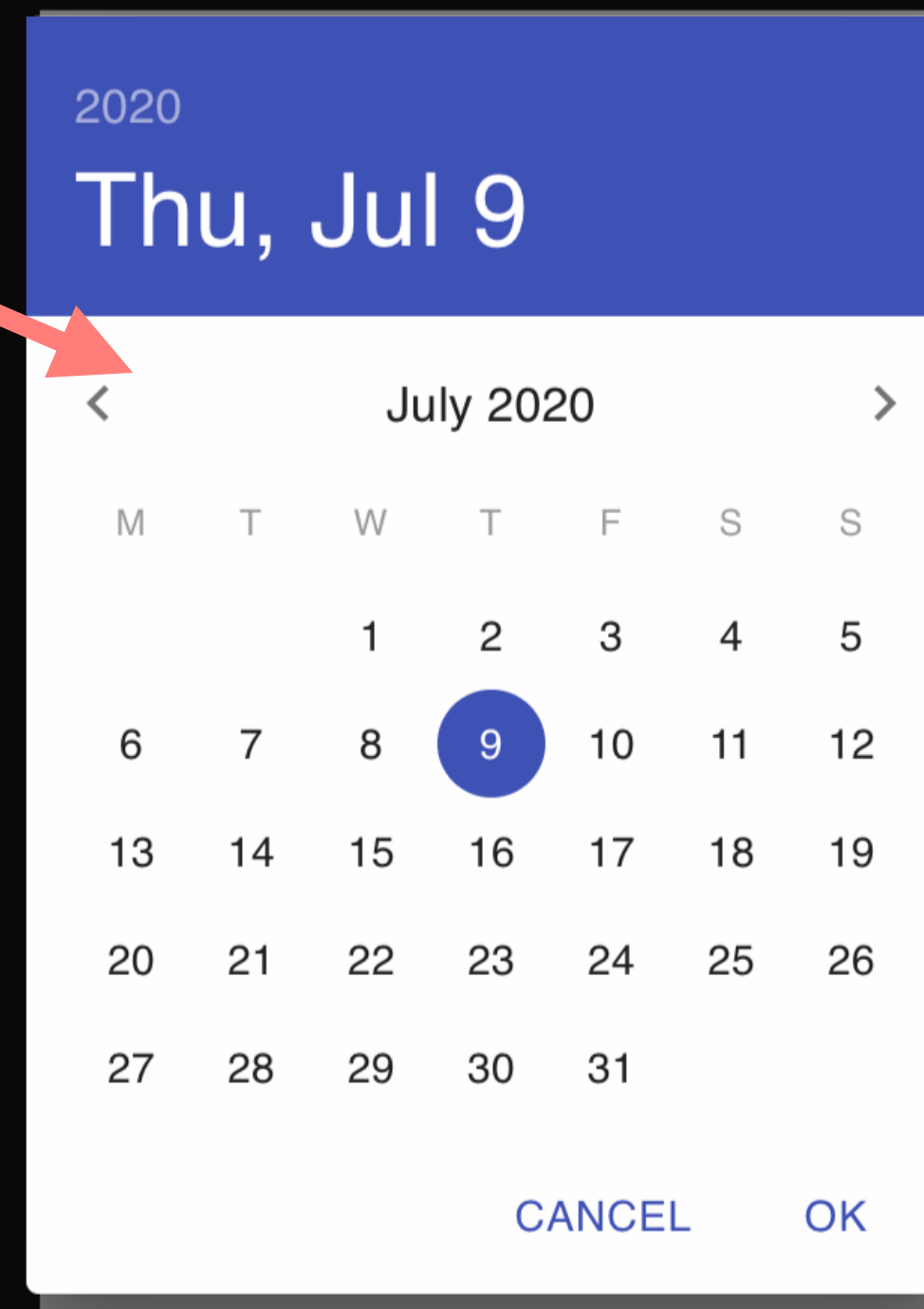
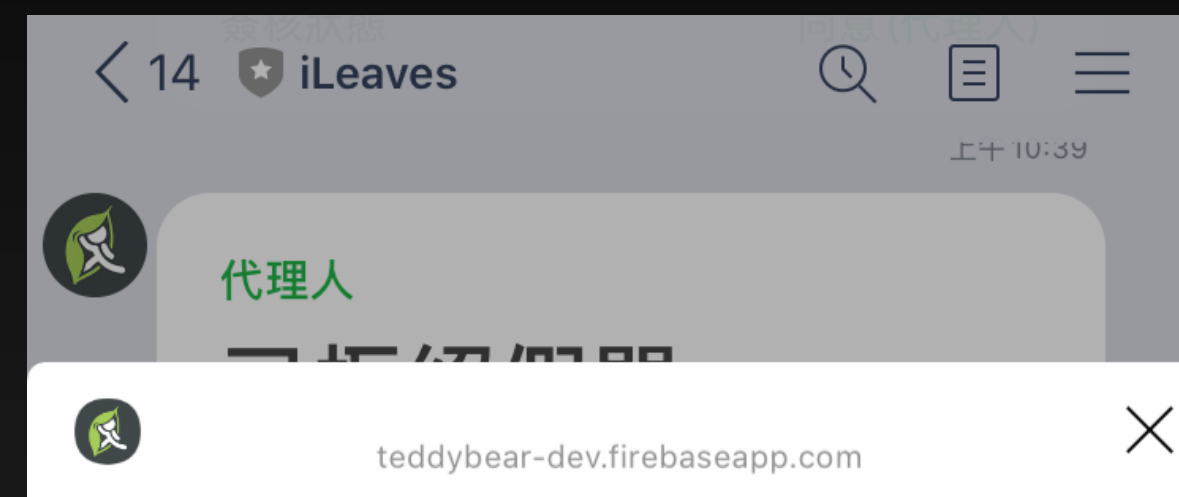
結束日期  
2020-07-09

假勤類別

假勤事由

職務代理人

送出假單



假單新增成功

## 假單

開始日期 2020-07-09  
結束日期 2020-07-09

假別 特休假  
請假原因 測試  
代理人 黃妍心

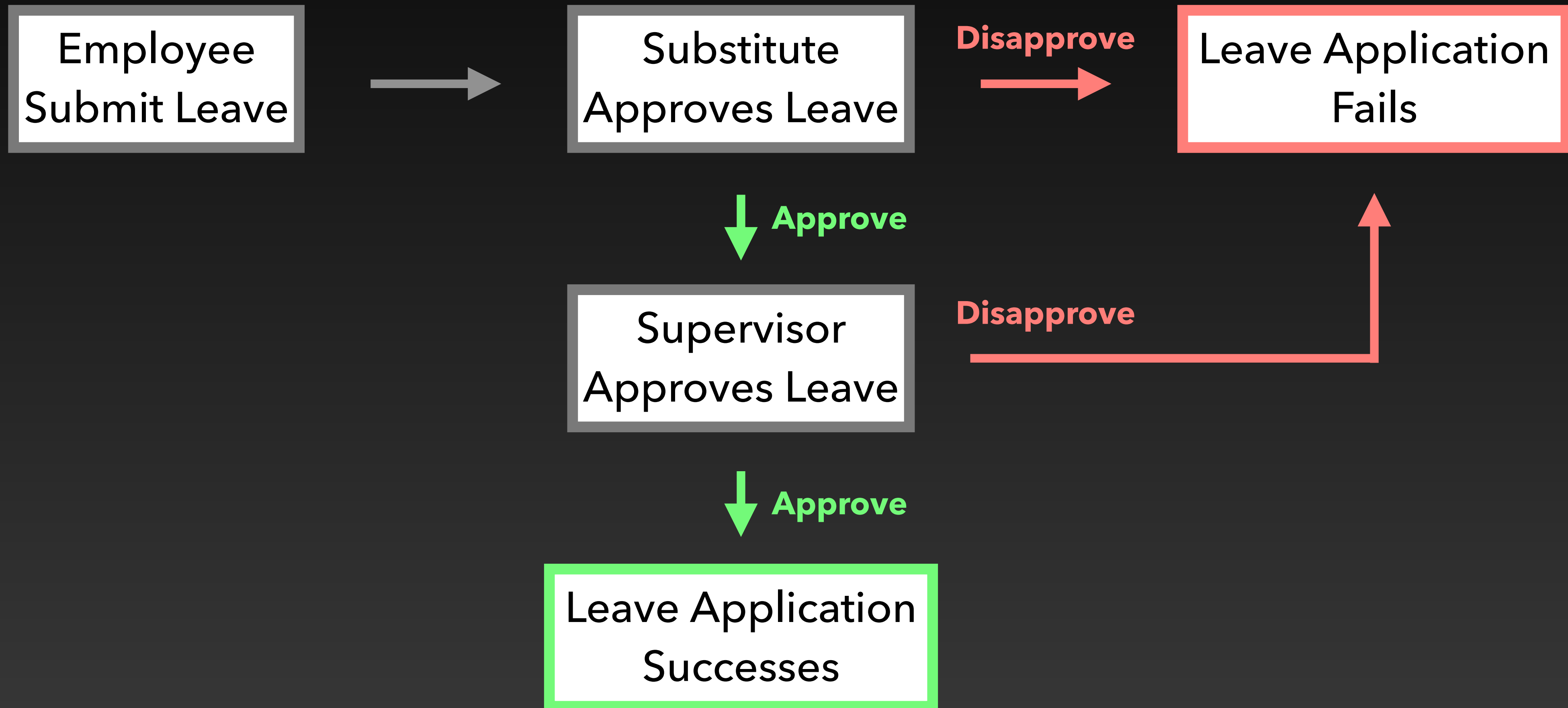
簽核狀態 待簽核

上午 10:22

通知申請者假單新增成功



# How To Use Leave Approval



# How To Use

## Leave Approval Scenario: Substitute Approved & Supervisor Disapproved



The screenshot shows a mobile app interface with a green header bar. Below the header, there is a green status bar that says "假單新增成功" (Leave application added successfully). The main content area has a large title "假單" (Leave application) and a form with the following fields: "開始日期" (Start date) set to "2020-07-09", "結束日期" (End date) set to "2020-07-09", "假別" (Leave type) set to "特休假" (Special leave), "請假原因" (Reason for leave) set to "測試" (Test), and "代理人" (Agent) set to "黃妍心" (Huang Yanyin). At the bottom, the "簽核狀態" (Approval status) is "待簽核" (Pending approval). The time "上午 10:22" is shown at the bottom right.

假單新增成功

### 假單

開始日期 2020-07-09  
結束日期 2020-07-09

假別 特休假  
請假原因 測試  
代理人 黃妍心

簽核狀態 待簽核

上午 10:22

### 1. Leave Application Submitted

Leave applicant receives a message saying "Your leave application has been submitted."



The screenshot shows a mobile app interface with a green header bar. Below the header, there is a green status bar that says "代理人" (Agent). The main content area has a large title "是否批准假單?" (Do you approve the leave application?). Below the title, there is a form with the following fields: "請假者" (Leave applicant) set to "黃妍心" (Huang Yanyin), "開始日期" (Start date) set to "2020-07-09", "結束日期" (End date) set to "2020-07-09", "假別" (Leave type) set to "特休假" (Special leave), "請假原因" (Reason for leave) set to "測試" (Test), and "代理人" (Agent) set to "黃妍心" (Huang Yanyin). At the bottom, there are two buttons: "拒絕" (Reject) and "批准" (Approve). The time "上午 10:22" is shown at the bottom right.

代理人

### 是否批准假單?

請假者 黃妍心

開始日期 2020-07-09  
結束日期 2020-07-09

假別 特休假  
請假原因 測試  
代理人 黃妍心

拒絕 批准

上午 10:22

### 2. Asking Substitute's Approval

Substitute receives a message asking "Do you approve this leave application?".



The screenshot shows a mobile app interface with a green header bar. Below the header, there is a green status bar that says "代理人" (Agent). The main content area has a large title "已批准假單" (Leave application approved). Below the title, there is a form with the following fields: "開始日期" (Start date) set to "2020-07-09", "結束日期" (End date) set to "2020-07-09", "假別" (Leave type) set to "特休假" (Special leave), "請假原因" (Reason for leave) set to "測試" (Test), and "代理人" (Agent) set to "黃妍心" (Huang Yanyin). At the bottom, the "簽核狀態" (Approval status) is "同意 (代理人)" (Agree (Agent)). The time "上午 10:25" is shown at the bottom right.

代理人

### 已批准假單

開始日期 2020-07-09  
結束日期 2020-07-09

假別 特休假  
請假原因 測試  
代理人 黃妍心

簽核狀態 同意 (代理人)

上午 10:25

### 3. Substitute Approved

Leave applicant receives a message saying "Your leave application has been approved by your substitute."



# How To Use

## Leave Approval Scenario: Substitute Approved & Supervisor Disapproved

主管

### 是否批准假單？

請假者 黃妍心

開始日期 2020-07-09  
結束日期 2020-07-09

假別 特休假  
請假原因 測試  
代理人 黃妍心

拒絕 批准

上午 10:25

teddybear-dev.firebaseio.com

### 拒絕原因

送出

上午 10:27

主管

### 已拒絕假單

開始日期 2020-07-09  
結束日期 2020-07-09

假別 特休假  
請假原因 測試  
代理人 黃妍心

簽核狀態 拒絕 (主管)  
拒絕原因 測試

上午 10:27

### 4. Asking Supervisor's Approval

Department supervisor receives a message asking "Do you approve this leave application?".

### 5. Supervisor Disapproved

Department supervisor disapproved the application with a reason.

### 5. Leave Application Fails

Leave applicant receives a message saying "Your leave application has been disapproved by your supervisor."

# How To Use Leave Management

- View leave application history
- Click on row to view detail
- Filter leaves by month
- Leave Approval Status
  - Pending
  - Approved (Substitute)
  - Approved (Supervisor)
  - Disapproved (Substitute)
  - Disapproved (Supervisor)



請選擇年月： 06/2020

開始日期	結束日期	假勤類別	簽核狀態
2020-06-04	2020-06-04	公假	拒絕 (代...
2020-06-04	2020-06-04	公假	同意 (主管)
2020-06-04	2020-06-04	公假	同意 (主管)
2020-06-04	2020-06-04	公假	拒絕 (主管)
2020-06-04	2020-06-04	公假	拒絕 (代...
2020-06-04	2020-06-04	生理假	等待簽核
2020-06-04	2020-06-04	公假	等待簽核
2020-06-18	2020-06-18	公假	等待簽核
2020-06-18	2020-06-18	公假	等待簽核
2020-06-19	2020-06-19	公假	等待簽核

Previous Page 1 of 1 Next

10 rows

請選擇年月： 06/2020

開始日期	結束日期	假勤類別	簽核狀態
2020-06-04	2020-06-04	公假	拒絕 (代...
2020-06-04	2020-06-04	公假	同意 (主管)
2020-06-04	2020-06-04	公假	同意 (主管)
2020-06-04	2020-06-04	公假	拒絕 (主管)
2020-06-04	2020-06-04	公假	拒絕 (代...
2020-06-04	2020-06-04	生理假	等待簽核
2020-06-04	2020-06-04	公假	等待簽核
2020-06-18	2020-06-18	公假	等待簽核
2020-06-18	2020-06-18	公假	等待簽核
2020-06-19	2020-06-19	公假	等待簽核

Previous Page 1 of 1 Next

10 rows

teddybear-  
dev.firebaseio.com

開始日期：2020-06-04  
結束日期：2020-06-04  
假勤類別：生理假  
代理人：黃妍心  
簽核狀態：等待簽核  
拒絕原因：null

確定



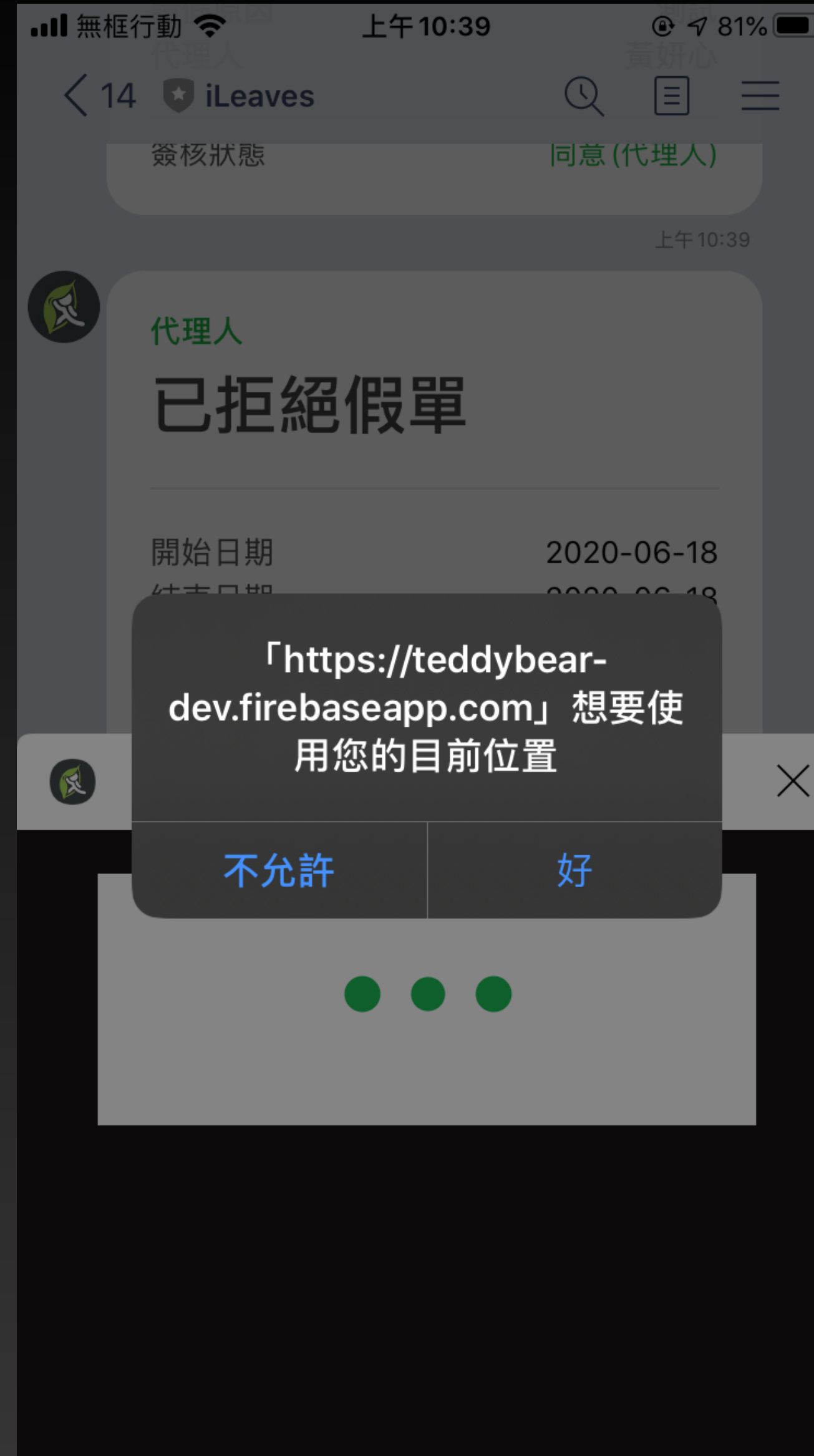
# How To Use Leave Approval Management

- View leaves assigned to you
- Filter leaves by roles and approval status
- Expand row to see more details
- Approve or disapprove leaves here



# How To Use Clock In/Out

- Record current time and current GPS location
- Clock in/out once a day
- In order to clock out, clock in first



# How To Use Attendance Tracking

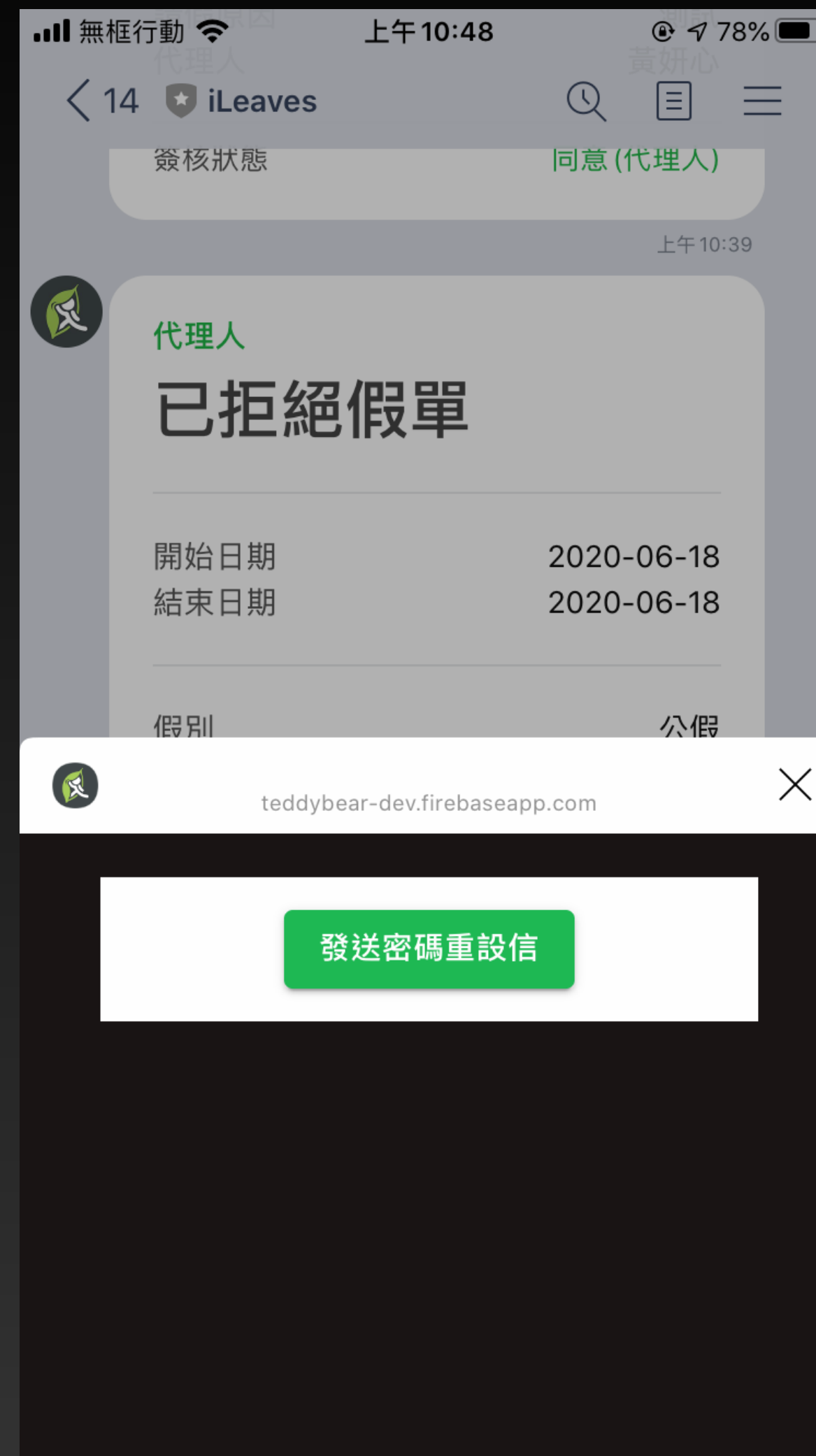
- View clock in/out history
- Filter clock in/out history by month





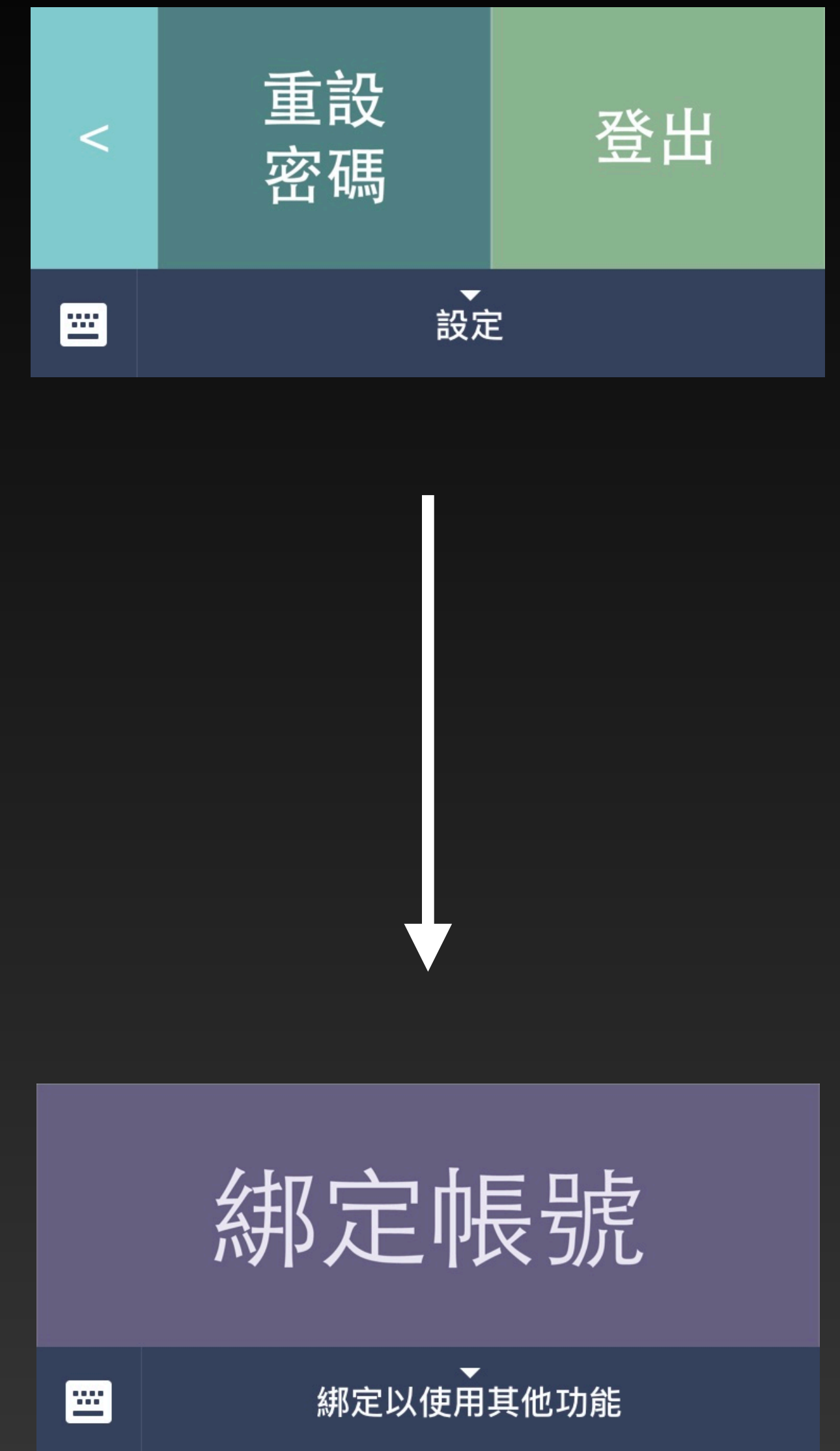
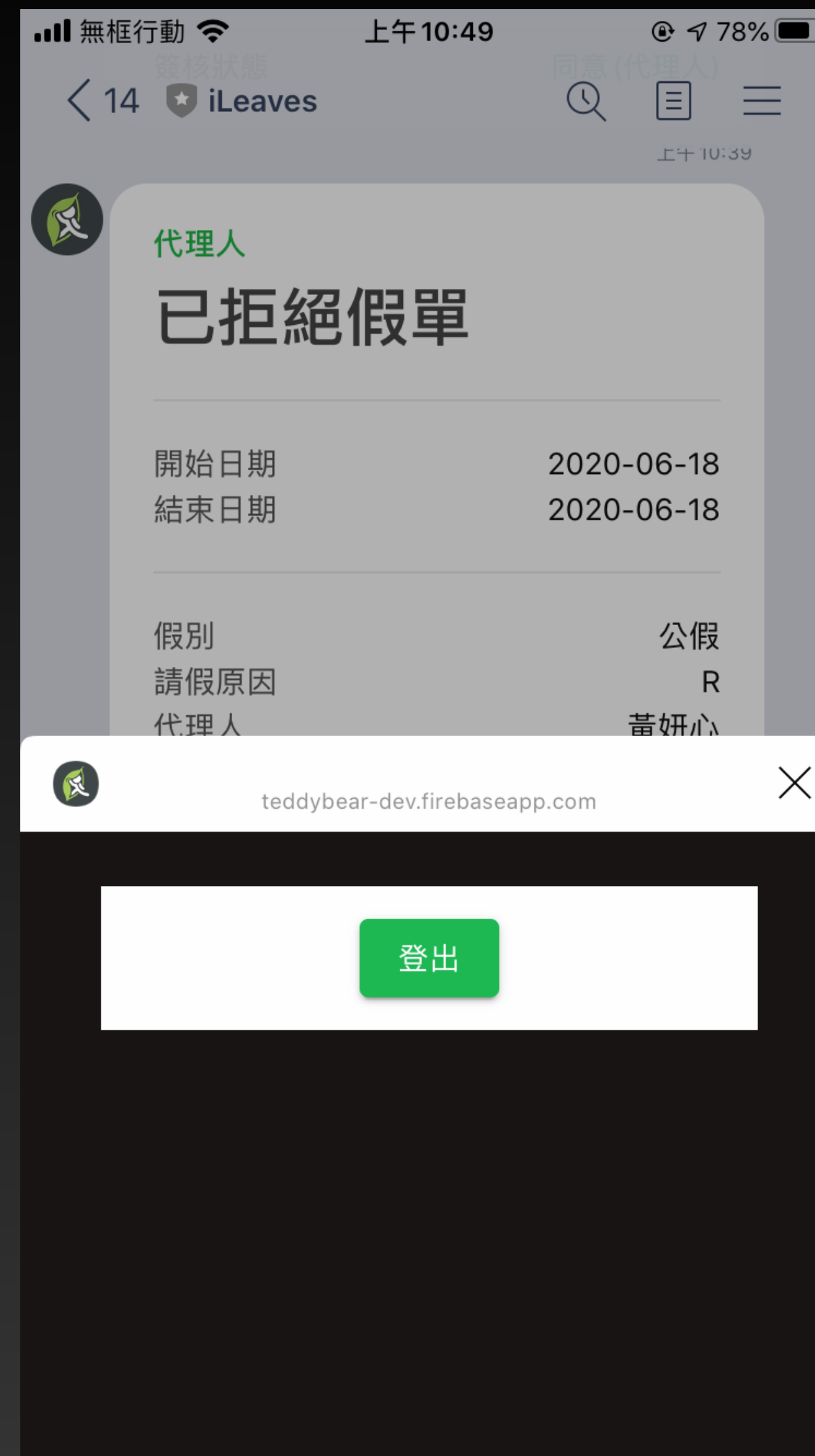
# How To Use Reset Password

- System sends password reset email to your inbox
- Use the link in the email to reset password



# How To Use Sign Off

- Upon successful sign-out, automatically switch to the **Sign In Menu**
- To access services, please sign in again



# How to Clone

# How to clone Firebase

- Create a Firebase Project
- Initialize the SDK
- Set API Key

Admin SDK 設定程式碼片段

☒ Node.js ☐ Java ☐ Python ☐ Go

```
var admin = require("firebase-admin");

var serviceAccount = require("path/to/serviceAccountKey.json");

admin.initializeApp({
  credential: admin.credential.cert(serviceAccount),
  databaseURL: 
});
```

產生新的私密金鑰

# How to clone LINE

- Create a LINE Developers Account
- Create a New Channel
- LIFF
- Rich Menu
- Set Configuration

**Webhook settings**

Webhook URL <sup>?</sup> `https://us-central1-teddybear-dev.cloudfunctions.net/api/message/linewebhook`

Use webhook <sup>?</sup> ☒

**LIFF applications**


LIFF (LINE Front-end Framework) is a platform for building web apps that can run within LINE. Each LIFF app must be linked to a channel.  
Learn how to add LIFF apps from the [documentation](#) <sup>?</sup>.

shareTargetPicker <sup>?</sup> ☐

LIFF app name	LIFF URL	Size
signIn	<code>https://liff.line.me/1654360122-VIIEXZvK</code>	Full >





# How to clone GitHub Wiki


 **yansinhuang / ezbot** Private


forked from [AppMasterTW/ezbot](#)


<> Code


 Pull requests


 Actions

 Projects

 **Wiki**

 Security

 Insights

 Settings

Watch 0

Star 0

Fork 1

## Firebase

Yansin Huang edited this page 22 days ago · 5 revisions

EditNew Page

ezbot是基於Firebase進行開發的專案，因此若要clone此專案，你需要先在Firebase創建一個新的project。

## Create a Firebase Project

在[Firebase console](#)建立一個Firebase Project。

## Initialize the SDK

請依照以下步驟為你的Firebase Project建立**Private Key**，詳細可參考此份[文件](#)。

1. In the Firebase console, open Settings > Service Accounts.

2. Click Generate New Private Key, then confirm by clicking Generate Key.


完成後，請將此步驟所產生的JSON file中的內容，複製到 `src/config/index.js` 內的 `config.credential` 中，並將顯示於畫面中的 `databaseURL` 複製到 `src/config/index.js` 內的 `config.firebase.databaseUrl` 中。

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  - [HR](#)
  - [Employee](#)
- How to clone and deploy
  - [Firebase](#)
  - [LINE](#)
- [To Do](#)


Clone this wiki locally

https://github.com/yan




# How to clone

## API 文件



ezbot API  
Yansin Huang • ezbot2

DocumentationInspectorEditorTests

Create a team

Download  
API Blueprint

INTRODUCTION

REFERENCE

Admin

Account

**Staff**

Message

Leave

Department

Punch in/out

## Staff

Create a New Staff Account

You may create a new business account using this action.

Update a Staff Account

You may update an existing staff account using this action.

Get a Staff Account

You may get an existing staff account detail using this action.

Delete Staff

You may delete staff account using this action.

Get Staff Accounts

Switch to Console

Staff / Get Staff Accounts

GET `https://us-central1-teddybear-dev.cloudfunctions.net/api/staff/search?ubn=ubn&email=email&page=page&size=size`

Parameters

ubn	<input checked="" type="radio"/> business ubn	String
email	<input type="radio"/> staff email	String
page	<input type="radio"/> page returned	Number
size	<input type="radio"/> maximum number of data in one page	Number

Request

ProductionRawTry

HEADERS

To Do

# To Do

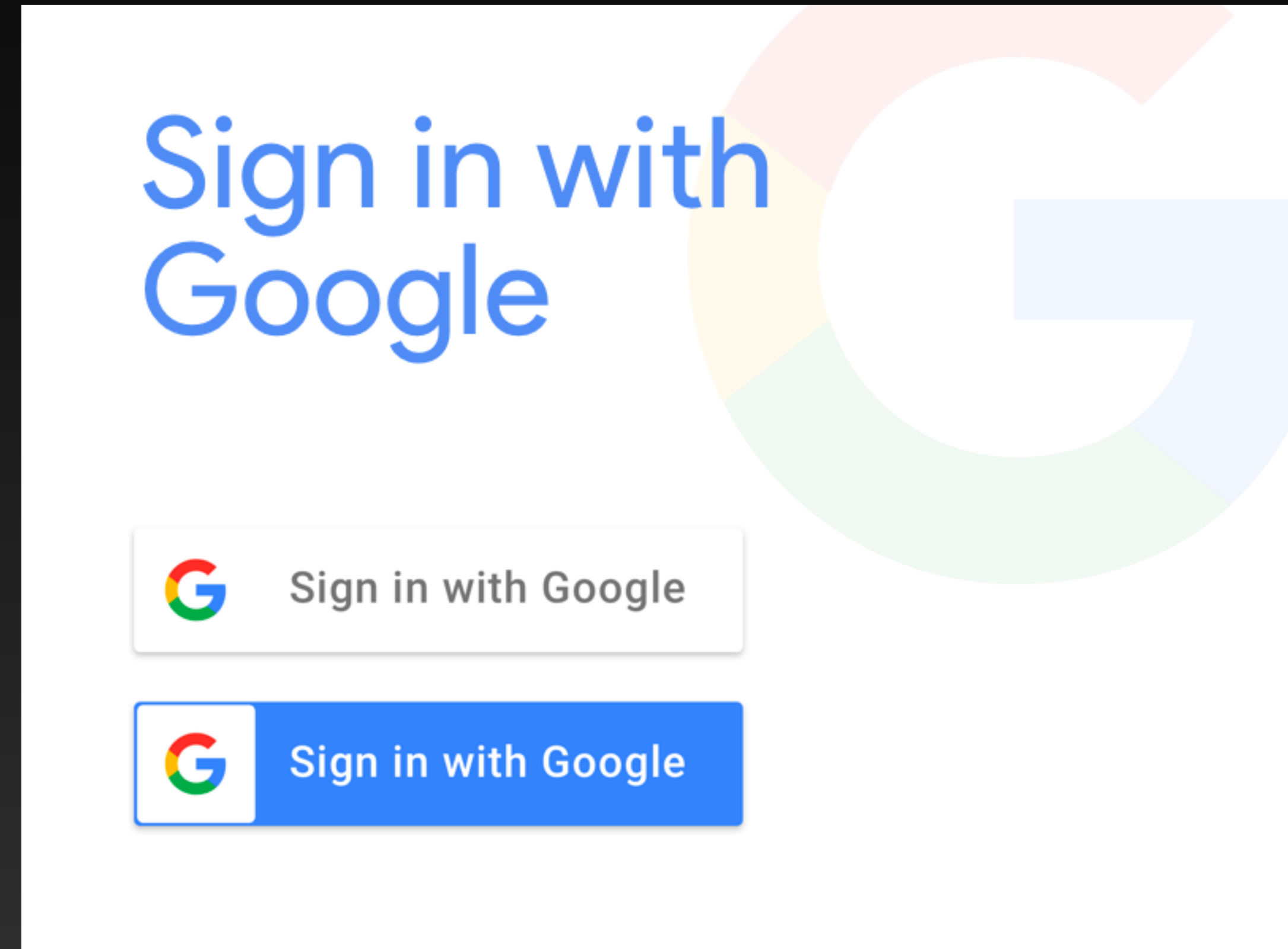
## HR Management Interface

- Current: Make manual API call to manage employees' data
- To Do: Create user interface for the background management system

# To Do

## Social Login

- Reduce communication costs between HR and employees
- Employees no need to memorize new passwords to access their accounts



# To Do

## Attendance Tracking System Improvement

- Goal: Accommodate field staff's working style
  - Current: Clock in and out once a day
  - To Do: Allow unlimited clock-in/out times for certain employees
- Goal: Prohibit unqualified clock ins/outs
  - Current: Manually check if a clock in/out location is qualified
  - To Do: Limit the scope of clock-in and clock-out locations

# To Do

## More Features

Currently, the system focuses on leave management and attendance tracking. We may have to add more features, such as **automatic payroll generation** or **superannuation calculation**, if we want to move towards a more comprehensive human resources system in the future.

# Contact Me

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