iOS App Final Project Pokémon AR

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Section 1: What am I doing?

App 功能介紹



App功能介紹

App Name : Pokémon AR

Motivation: For a long time, some questions always haunt me. That is, can Pokémon Go actually equip with full potential of AR? Can Pokémon Go be more like its predecessor?

App功能介紹

Our app Pokémon AR actually unlock full potential of AR with Machine Learning!

We use Tensorflow Lite's object detection (MobileNet) to embed monsters' locations.

And even more! With Firebase supports, our Pokémon AR is able to provide user to battle with others, by using Internet.

Section 2:相近App介紹

Pokémon Go 介紹



相近App 介紹 - Pokémon Go

Features:

- With location-tracking it is able to combine exercise and health related iOS monitoring
- Dojo tower quests by collaborating with other players.
- AR based Pokémon-catching interaction

What i like about it:

- Nicely done tutorial navigation on Usesign
- AR embed ball-throwing mechanism
- Map location tracking with sightseeing landmark collaboration
- Collect Pokémon and fill up your pokédex as an achievement



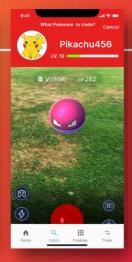
相近App介紹 - Differences



Section 3: Introduce views

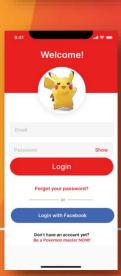
Views



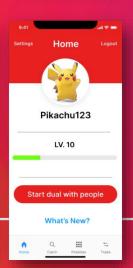


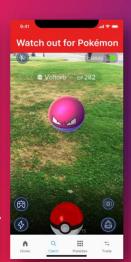
















Section 4: What parts of iOS will it use?

What parts of iOS will it use?

- NavigationView
- GeometryReader
- Toolbar
- TabView
- ScrollView
- LazyGrid
- UISearchController
- UIViewControllerRepresentable
 - Mix with UIKit and SwiftUI
- WKWebView
- SCNView

- Camera/Photo library
- CocoaPods
- TensorFlowLite
- AVFoundation
- ARKit
- SceneKit
- JavaScriptCore
- Combine
- Firebase
- Firebase Firestore
- Firebase Storage
- Firebase Auth
- Facebook Authentication

Section 5: Environment Setup

Github link

Github Repository

Follow README.md inside repository to setup the project (also download).

References

Extensions:

- ImagePicker
- UIViewController+Alert Prompt
- <u>Ullmage</u>
- View+Keyboard events
- SpinnerView
- Asynclmage
- TextAlert
- <u>LabelledDivider</u>
- ScallingCircle
- SearchBar
- JSWebView
- Climage
- Array+random get