

INTERACTIVE WAYFINDING

INTERACTIVE WAYFINDING FRONTEND

Interactive Wayfinding Frontend Software which built by our custom-made in-house Unity3D software

■ Benefit of using Unity3D to build a custom made frontend

- Most popular Game Engine with well developed libraries and supports
- Flexible to adapt various designs
- Fancy animation support
- Embed fonts
- Support 3D and support our 3D map Engine
- .NET compatible

Our developer is also **Certificated Unity Developer!!**

2D to 3D MAP GENERATOR

Our Solution come with exclusive Map Generator Engine supports conversion of 2D map to 3D Floor Plan

Benefits:

- Easy to build directional floor plan
(3D floor plan allow rotate according to actual direction)
- Save cost for 3D rendering
- Quick and Easy to update map
- Vector object allow resizing without distortion

2D to 3D MAP GENERATOR



WAYFINDING ROUTE GENERATOR

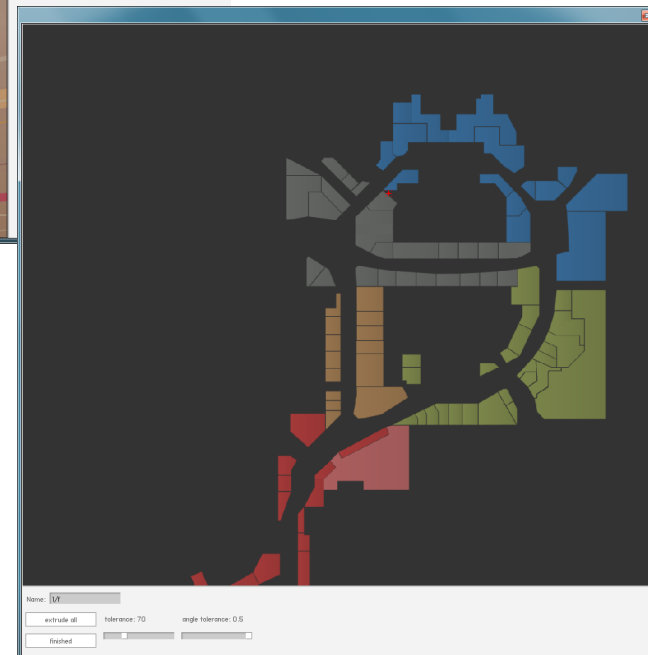
- An interface to draw the paths on the map
- Support multiple weights with different routes (by stairs, lift)
- Export data and import by CMS to update the route
- Could update map by update new map data to CMS, kiosks will download new map data when start up

WAYFINDING ROUTE GENERATOR

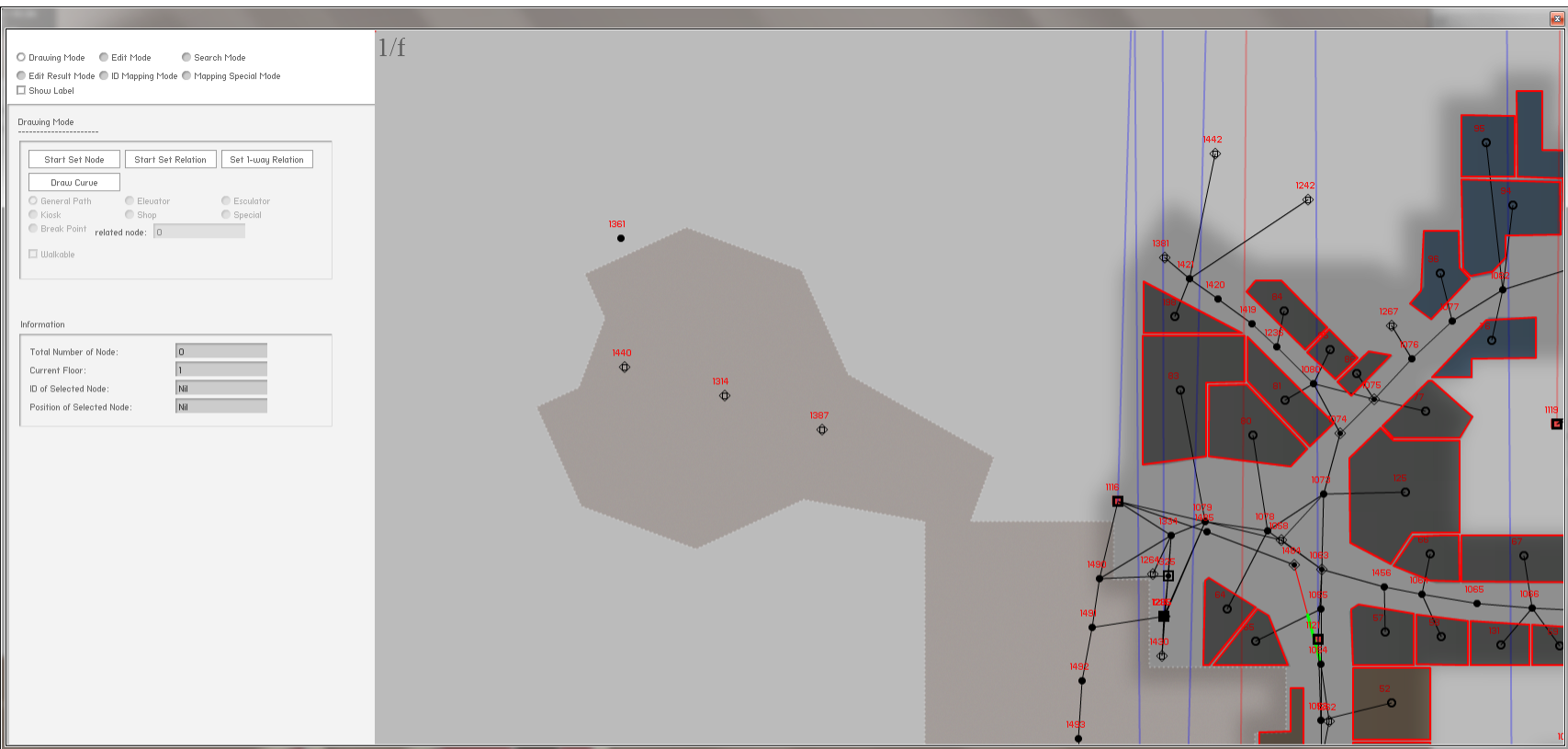


Select Floor to Edit

Add, Delete, Merge or Divide Shops



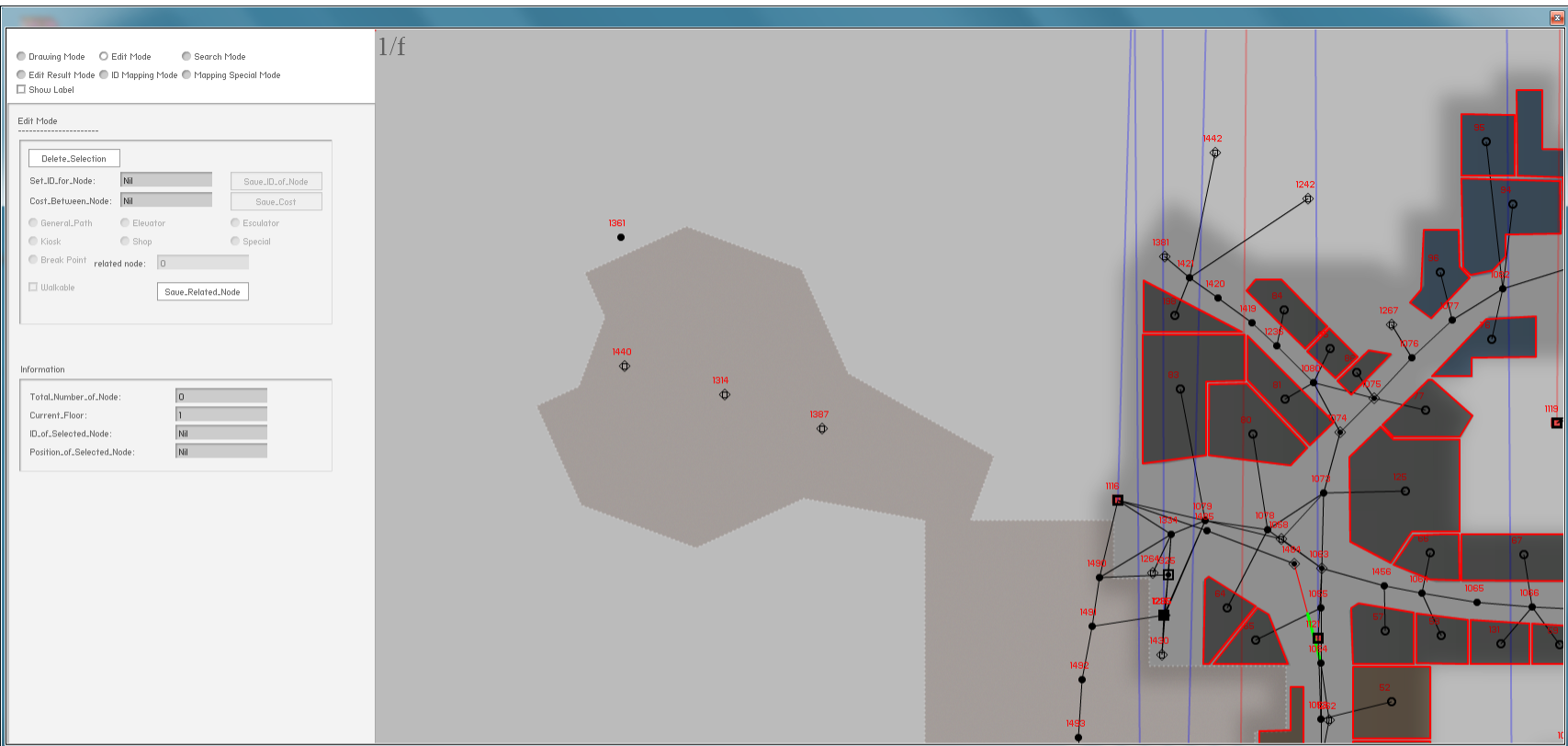
WAYFINDING ROUTE GENERATOR



■ Create Nodes (Shop Node, Route Node or Key Node)

■ Create Relationship of nodes

WAYFINDING ROUTE GENERATOR

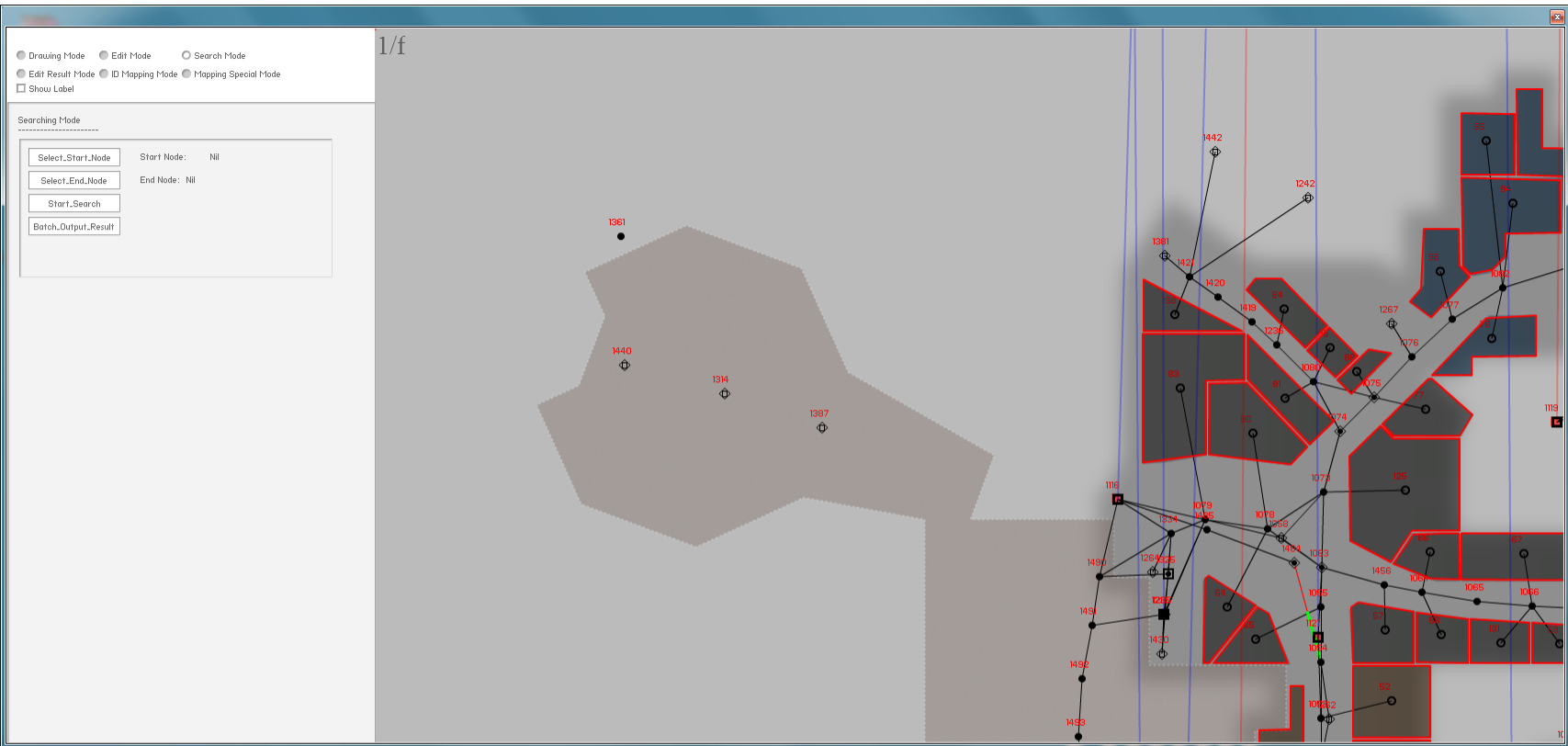


- Edit nodes (Shop Node, Route Node or Key Node)

- Remove nodes

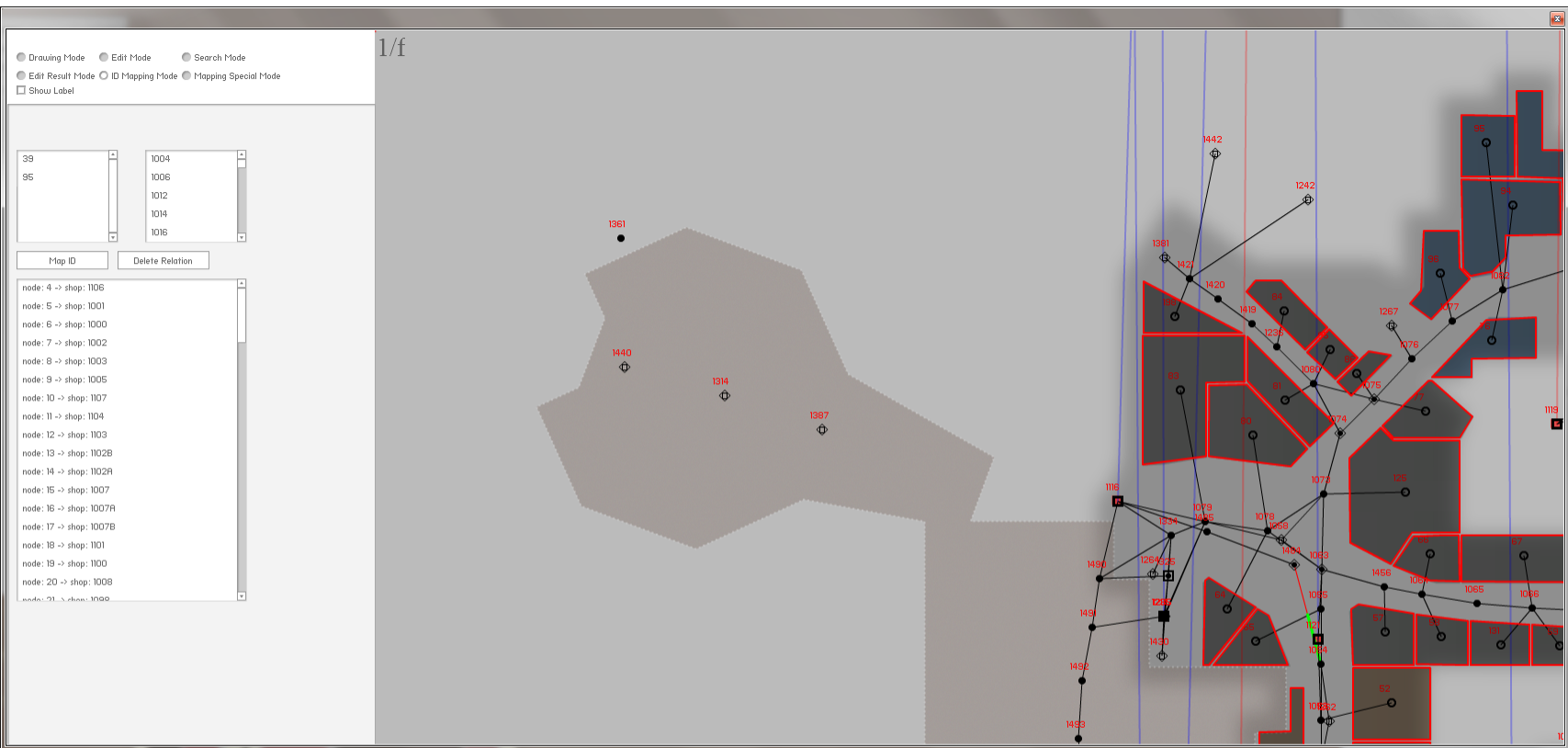
- Remove nodes relationship

WAYFINDING ROUTE GENERATOR

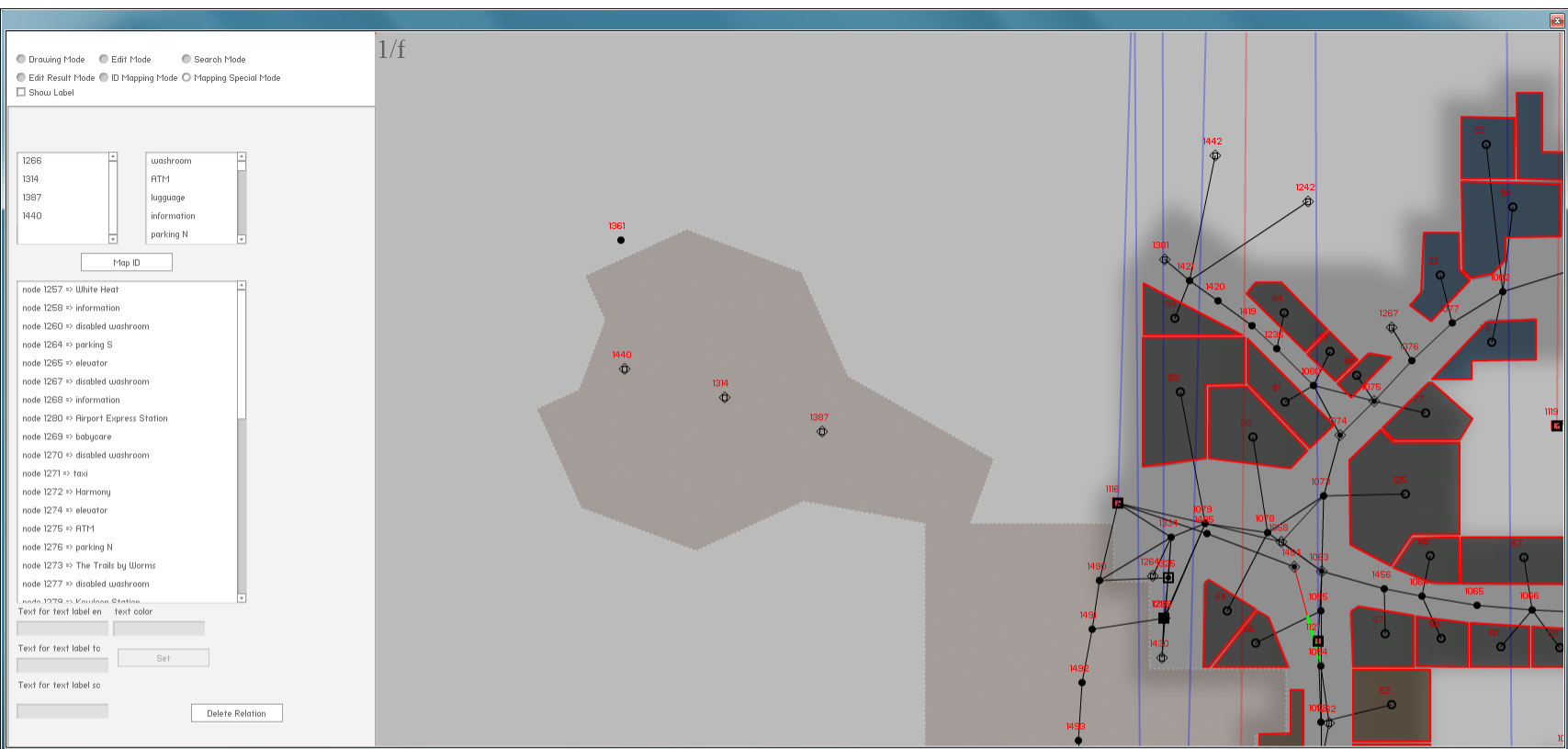


Calculate routes

WAYFINDING ROUTE GENERATOR



WAYFINDING ROUTE GENERATOR



Map facilities to CMS database

CMS FEATURES

Our CMS is a Custom Tailor Made Cloud Base CMS, which allow users to access anytime and anywhere

- Update Way-finding shop information
- Update Way-finding facilities information
- Update Way-finding map & routes
- Update Static Kiosk contents and layout
- Generate scheduled reports
- Administration like user & schedule management

WHY USE CUSTOM TAILOR MADE CMS?

- No license fee
- Lower System Requirements
- Easy to learn
- Easy to use
- Easy to upgrade features
- Possible to adapt highly custom-made workflows
- Highly optimized with newly floorplan import
- Custom made user roles
- Could apply workflow (edit, approve)

HOW KIOSK UPDATE CONTENTS?

- Regular data version check when start up
- All text & media files are downloaded to Kiosks
- Support offline mode
 - Weather & other real time data will be hidden during offline mode
- Able to push urgent message to Kiosks on the fly
- Able to force Kiosks to update data immediately
 - Update map floor data require restart the App

CMS SECURITY

- Use SSL & https, all communications are under security channel
- Hosted in AWS behind firewall, robust to DDoS attack
- Software could apply IP address or MAC ADDRESS filter if needed
- Apply SQL injection blocking libraries
- Custom security protocol is applied to API call:
 - Kiosks require to provide extra security salt (generated by with time + private key)
 - If salt is not correct, will not allow to load data from CMS

SYSTEM DATA USAGE

- Capture usage data of Interactive Kiosks for future analysis
 - Number of user per day
 - Number of impression by the promotion
 - Number of views of each shop detail
 - Number of users of each shops' route
 - Do not include privacy data
- Could apply to GA or other data platforms

AMAZON AWS (SINGAPORE)

We propose to use Amazon AWS EC2 + S3 + RDS MySQL Database

■ EC2 – For Web CMS & API & Websocket

- Suggest size: T2.Small (vcpu:2, cpu credit: 24 hour, memory: 4GB)

■ S3- For Data Storage

■ RDS MySQL – Single Instance, db.m3.large
& RDS Auto Backup Services

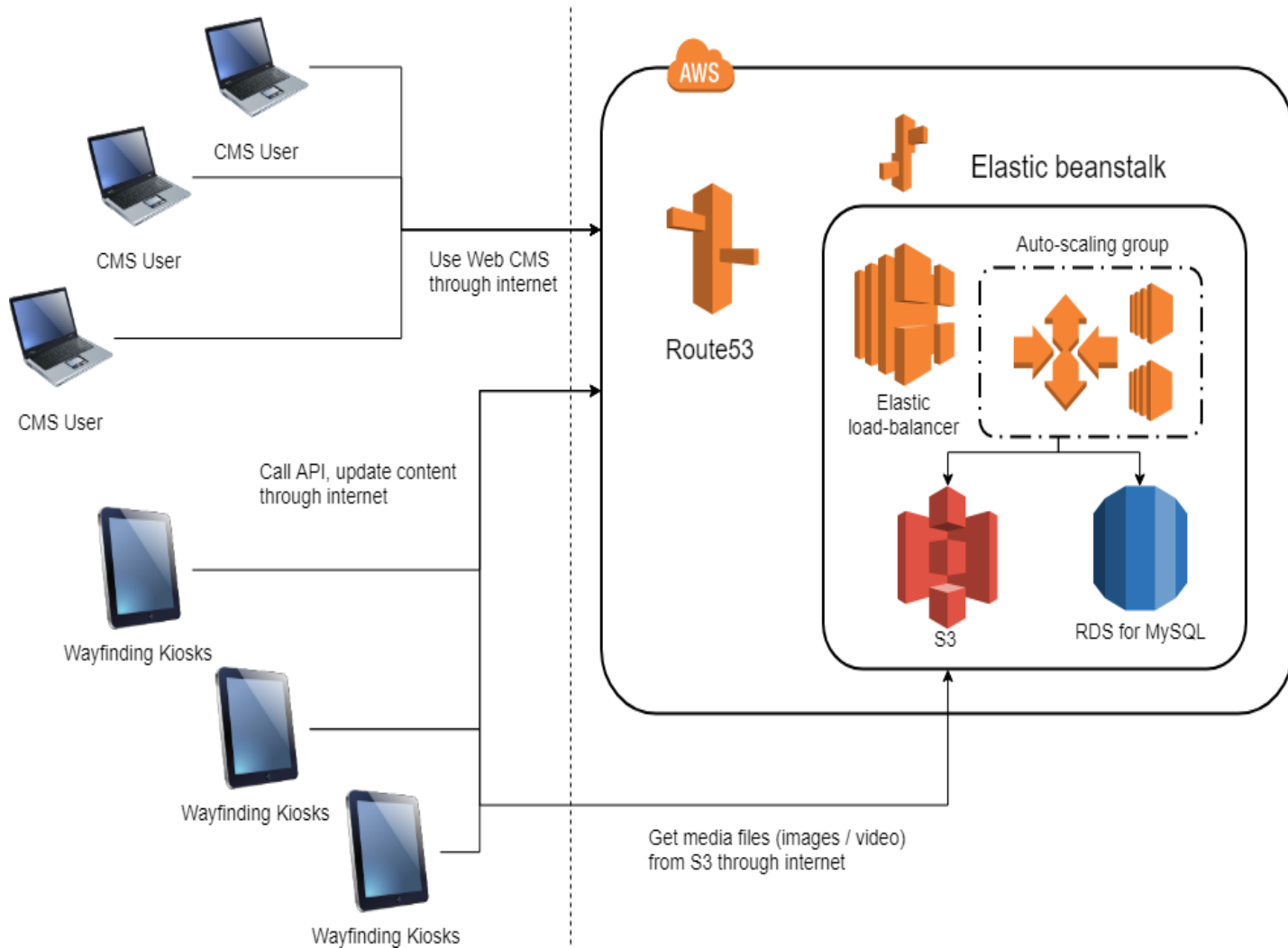
■ Route 53 – DNS Services

Remark:

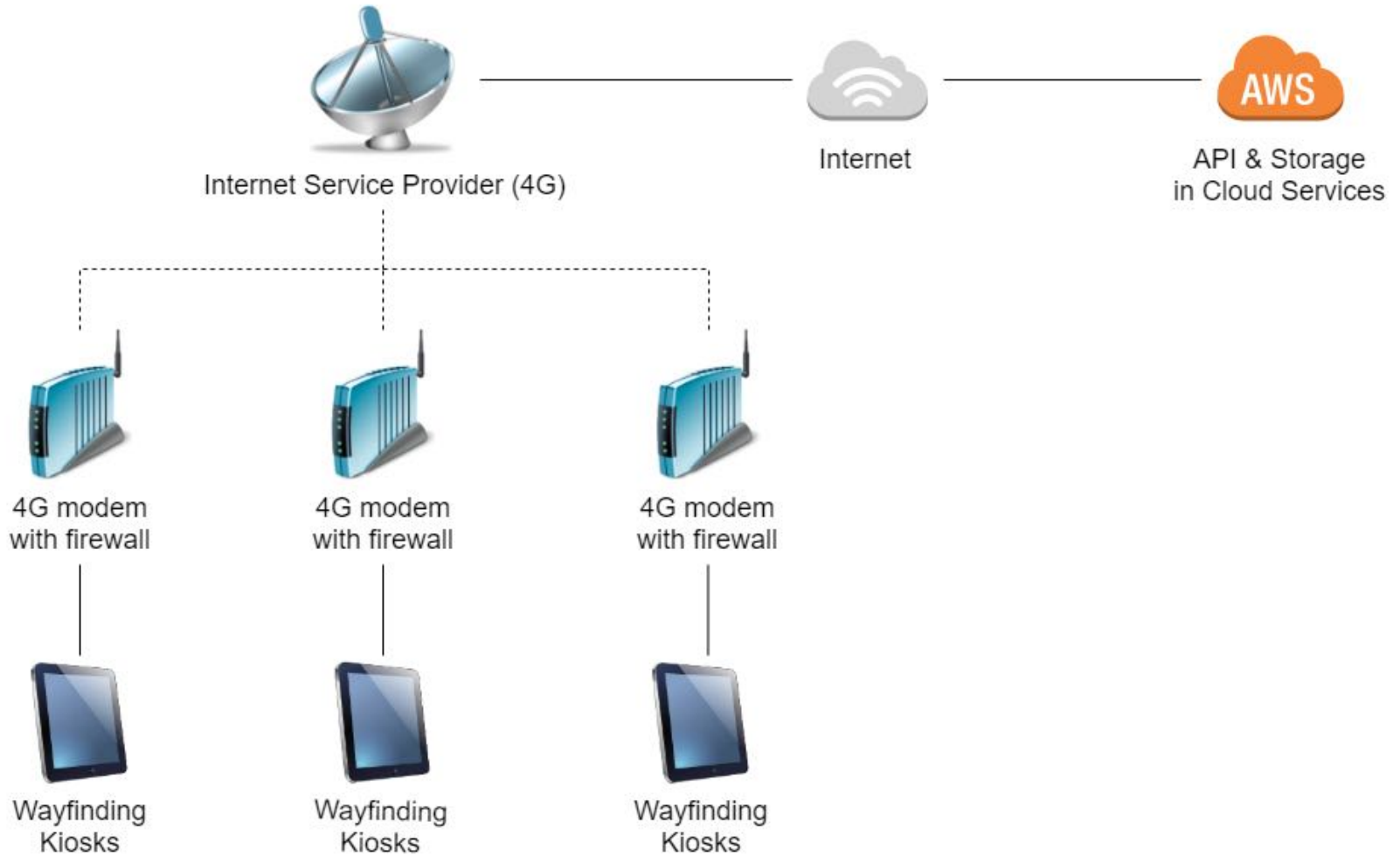
We need a Domain Name for WebCMS and API

We need SSL Certificate

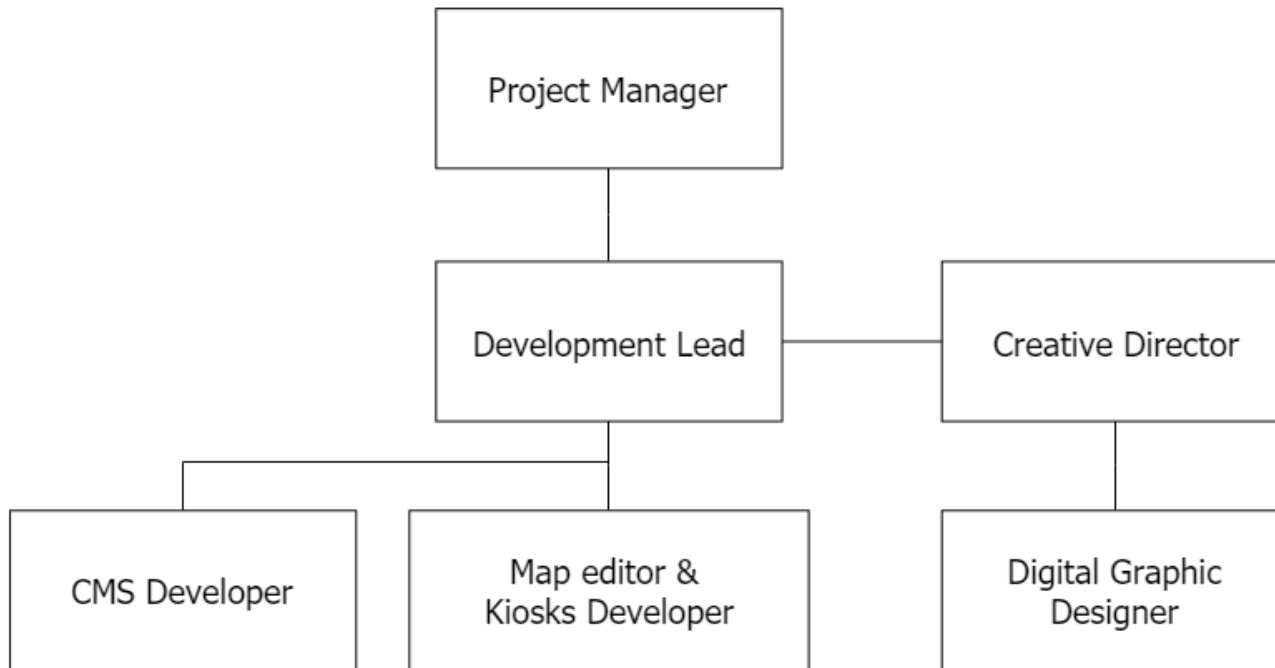
AWS ARCHITECTURE



SYSTEM ARCHITECTURE



SOFTWARE DEVELOPMENT TEAM



WAY FINDING



Elements

Job Duty:
Supply and Setup

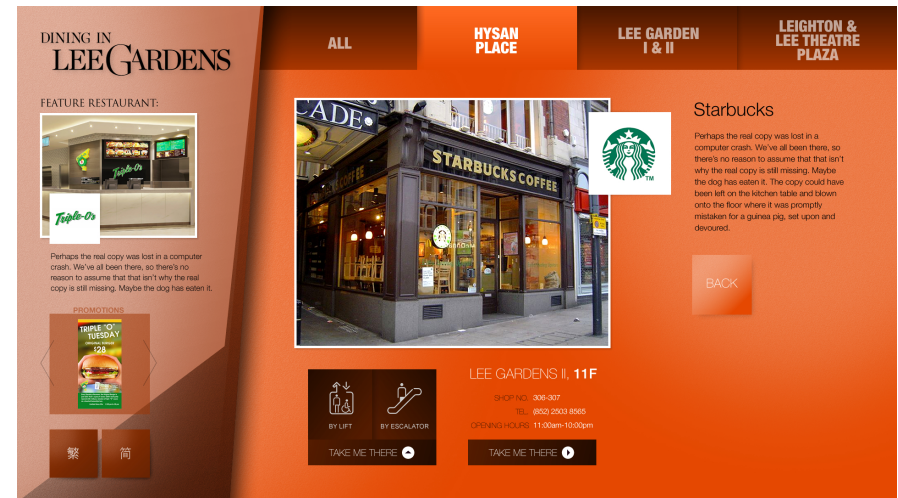


JOB REFERENCES

hysan

Nature:
Interactive Way-Finding

Job Duty:
Design and supply
by developer team

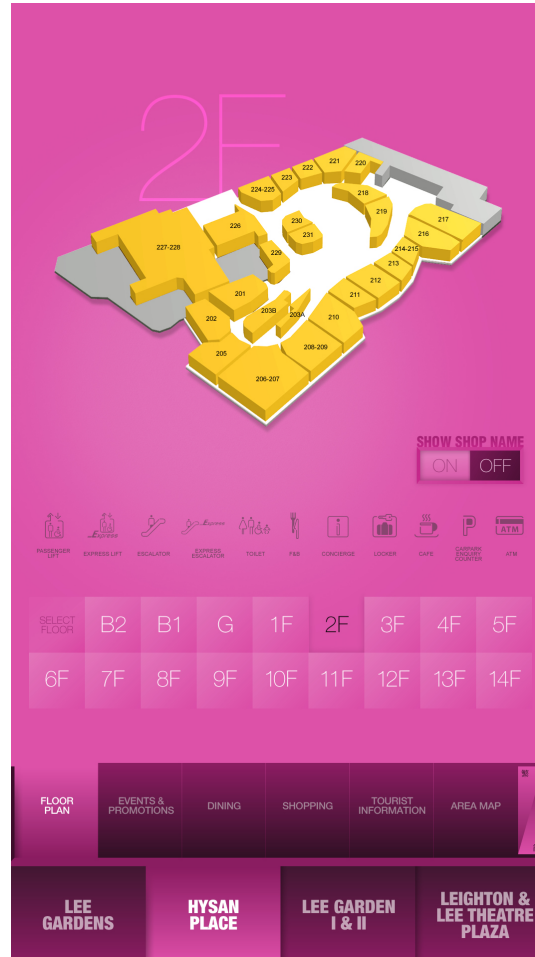


JOB REFERENCES

hysan

Nature:
Interactive Way-Finding

Job Duty:
Design and supply
by developer team



JOB REFERENCES

Peninsula

Nature:
Interactive Way-Finding

Job Duty:
Design and supply
by developer team



JOB REFERENCES

K11 – Tsim Sha Tsui

Nature:
Digital Signage

Job Duty:
Design and supply
By developer team



JOB REFERENCES

Windsor House

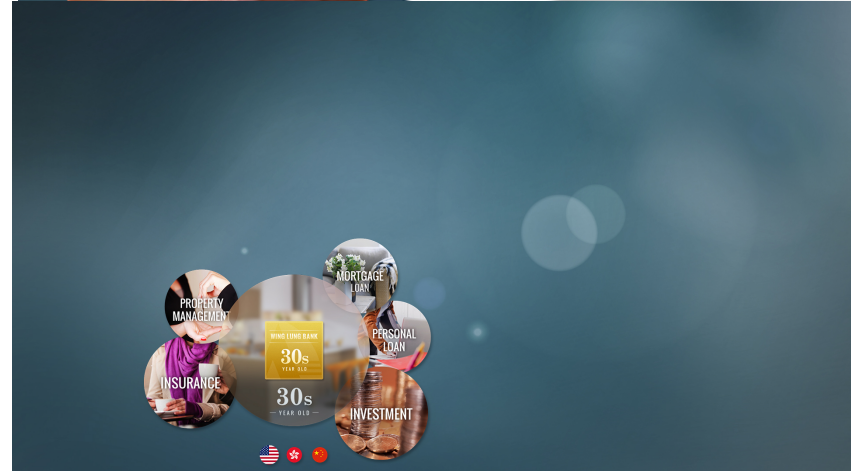
Nature:
Digital Signage

Job Duty:
Design& Build



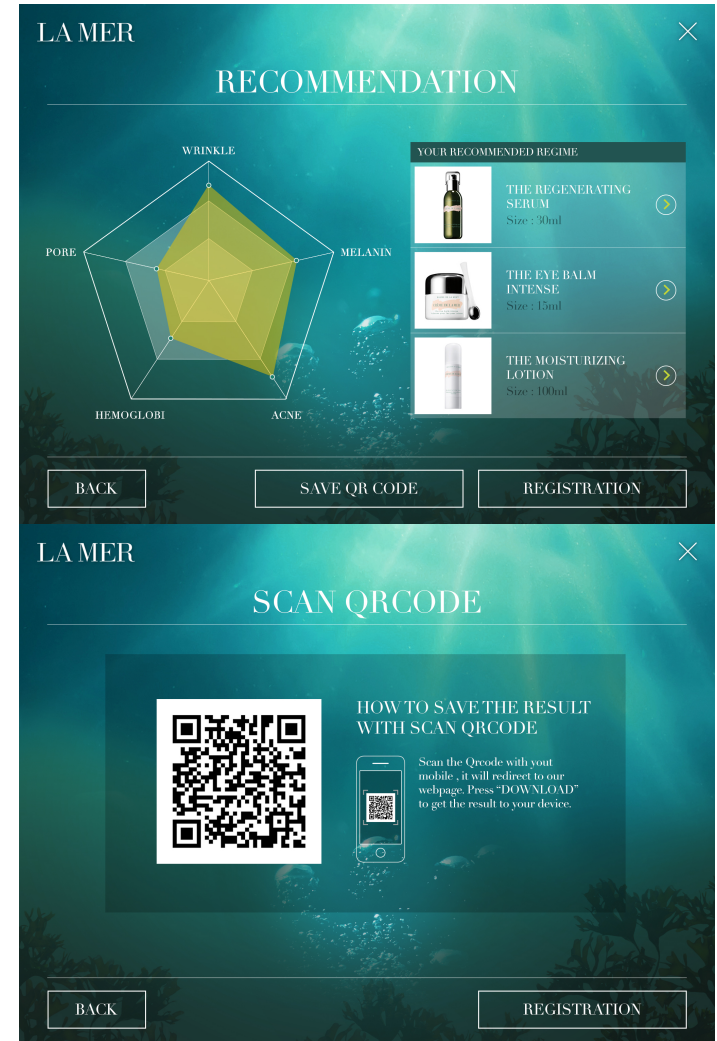
DESIGNER JOB REFERENCES

Wing Lung - iTable



DESIGNER JOB REFERENCES

LA MER – interactive Panel



DESIGNER JOB REFERENCES

CLP Web & Mobile Portal



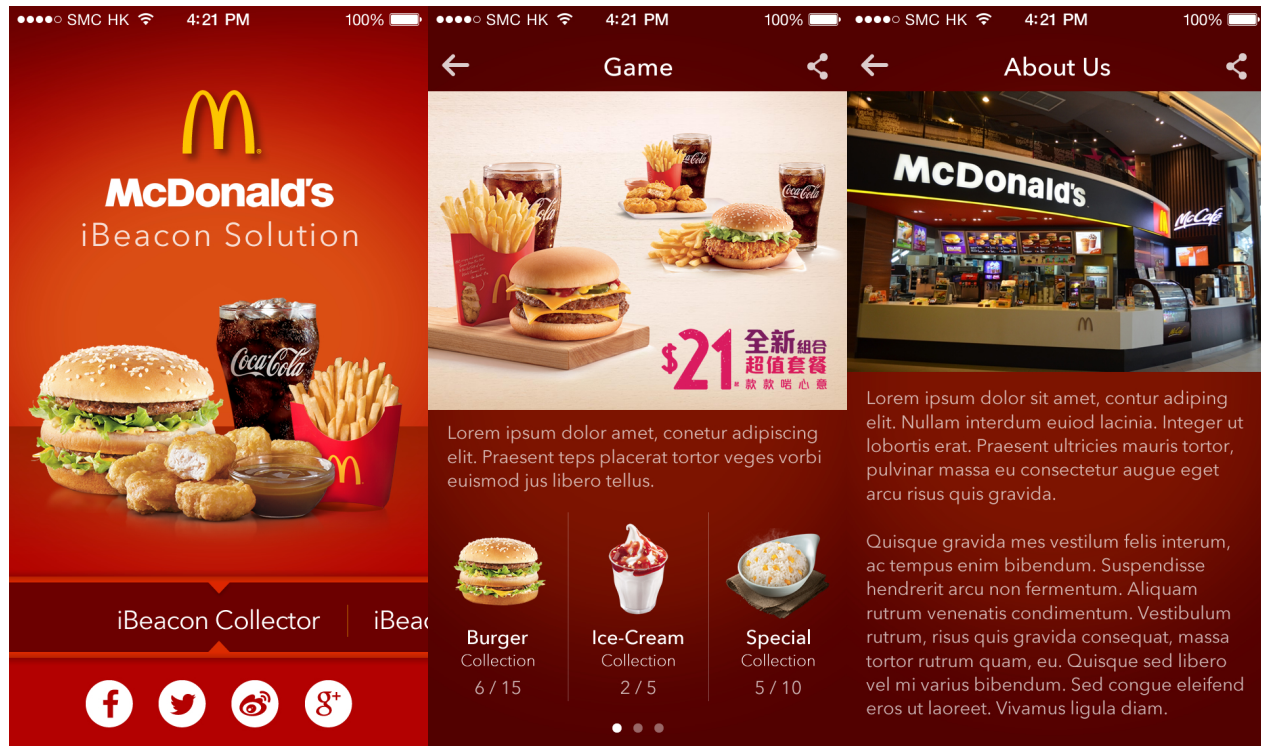
DESIGNER JOB REFERENCES

CLP Web Portal



DESIGNER JOB REFERENCES

McDonald – App Game



DESIGNER JOB REFERENCES

Movie Express – App Game



DESIGNER JOB REFERENCES

PacNet – Web Portal



WHY PACNET ?

Suspender potest. Proident lacus, purus ac volutpat tempus. Nulla
Bene condicti ornare. In aliquet diam magna vel massa. Sed ut
exumet part. Pellentesque et tristique lectus, ac placerat neque.



12 Years



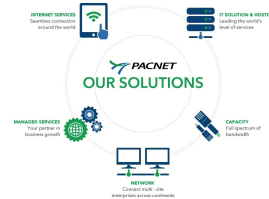
18 Data Centers



20 Offices



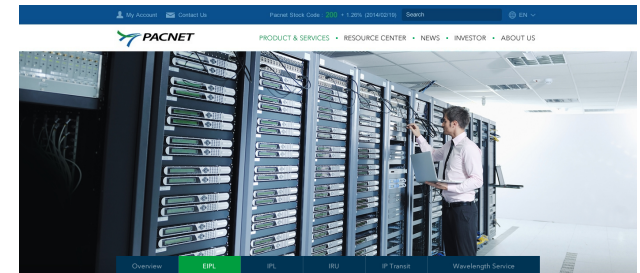
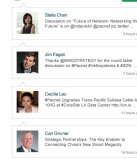
40,000+ km of Cable



RECENT NEWS



RECENT TWEETS



PacNet Global EPL

Competitive, dynamic enterprises invest heavily in business critical applications such as ERP, CRM and HR. Deliberate experience solution to enhance collaboration and business critical processes.

However, in their rush to deploy these services very little thought can often be given on network design, which adds layers of complexity and management issues as different applications run on stand-alone networks.

PacNet simplifies the connectivity requirements of enterprise with its Global Ethernet International Private Leased Line (EPL) Service, a data service offering point-to-point and point-to-multipoint international private connections. Using Ethernet as the heartbeat to the customers, it provides an end-to-end Ethernet connectivity between customer LANs.

Implemented on our existing PacNet SDN infrastructure, PacNet Global EPL service offers dedicated bandwidth and a high degree of network transparency for customers who want full control of their Ethernet WAN (Wide Area Network) environments. It also offers transport protection on both working and protected paths via SmartTransport Protection Scheme backed up by market-leading Service Level Objectives (SLOs).

Related Resources

- Global EPL Brochure
- EPL Point to Multi Point
- Smart Transport Brochure

Sales Enquiries

- Inquire About Global EPL



Key Features

- One-stop shop service including contracting, ordering, billing and maintenance to most countries.
- Fully managed pan-Asian network with extension to global coverage initially available in 11 metropolitan cities in Asia, US and Europe.
- High resilient, high performance network that provides milliseconds restoration of service for unparalleled continuous reliability.
- A variety of protection schemes to ensure network resilience in the event of a failure.
- Extensive partnership.
- Flexibility, choice, for the most suitable and cost effective solution.
- Market-leading service level agreements, competitive pricing providing rebates for outage to guarantee service reliability.
- Built and sold directly to end-user, eliminating any intermediaries.
- 24 x 7 network operation center providing world-class provisioning and maintenance support.

Technical Description

Standard Offer				
Component/Plan	Ethernet	Fast Ethernet	Gigabit Ethernet	10 GE
Ethernet Port*	10M	100M	1G	1-10G
Ethernet Bandwidth	2M, 4M, 6M, 8M, 10M	2M, 4M, 6M, 8M, 10M, 20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M, 100M	150M, 300M, 450M, 600M, 750M, 900M, 1G	1G Increment

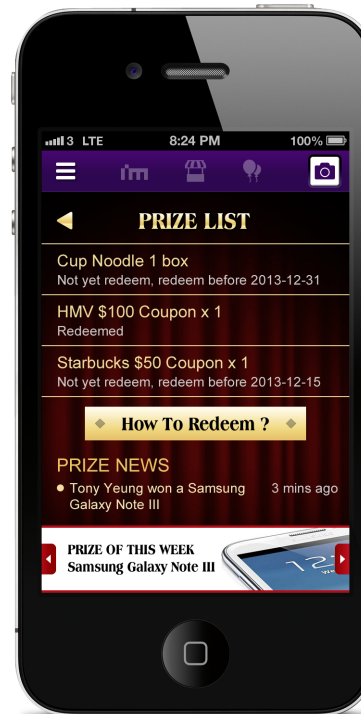
DESIGNER JOB REFERENCES

ParknShop – App Game



DESIGNER JOB REFERENCES

Shell - App Game



DESIGNER JOB REFERENCES

MELCO – WAYFINDING

