學期貳 term two
(1331) (2601) (6310)

Exhibition Navigation with iBeacon

ไขน140

映像使用書體 MS P 明朝 Typeface used MS PMincho

NG Ping Him

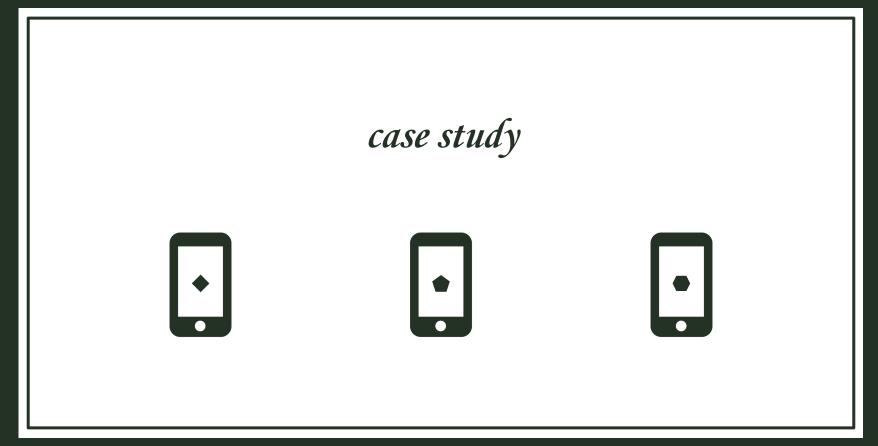
ID #1155029312

YEUNG Tak Wing

ID #1155009050

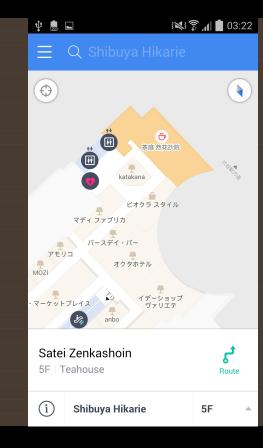
Previous

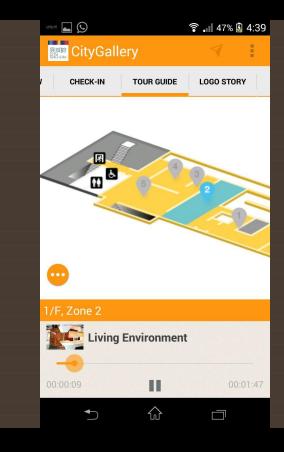


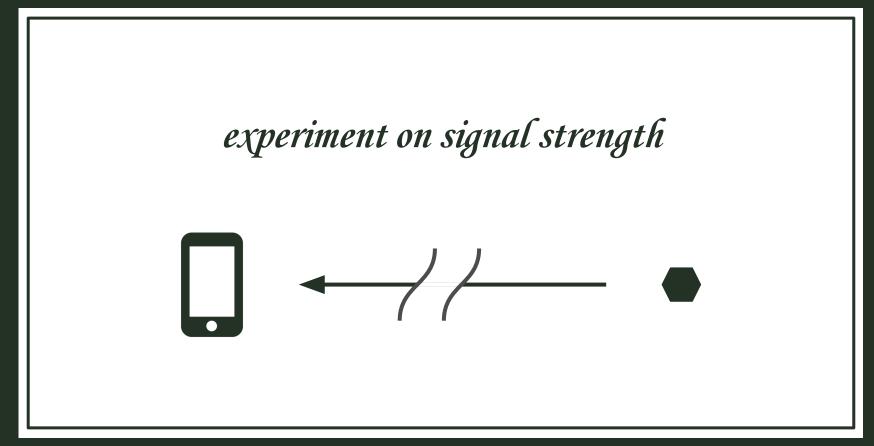


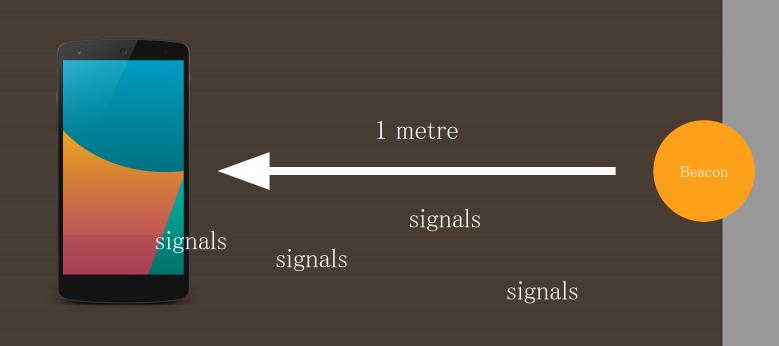
Read reviews & see what other shoppers are saying.



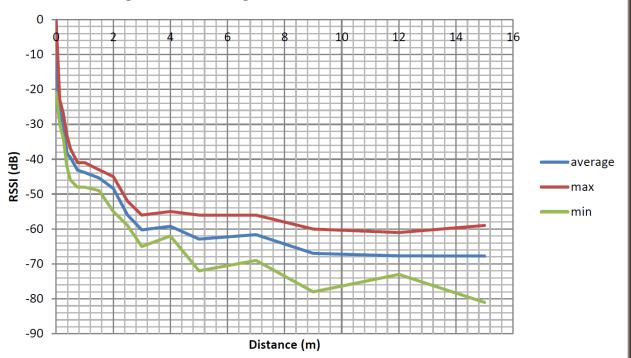


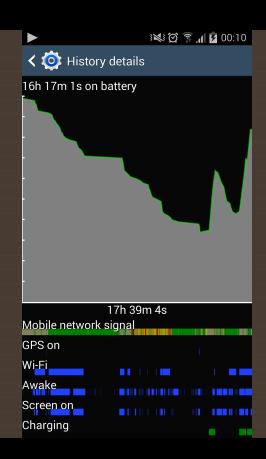






Range of RSSI against Distance of Beacon #1



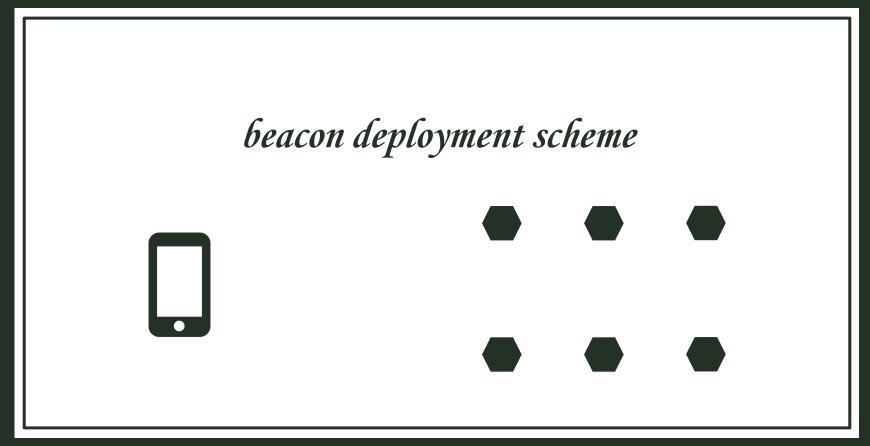


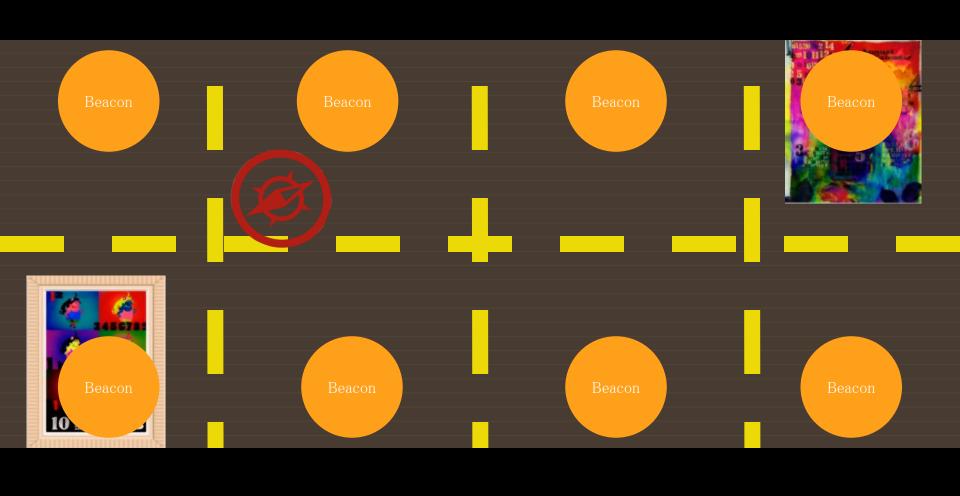




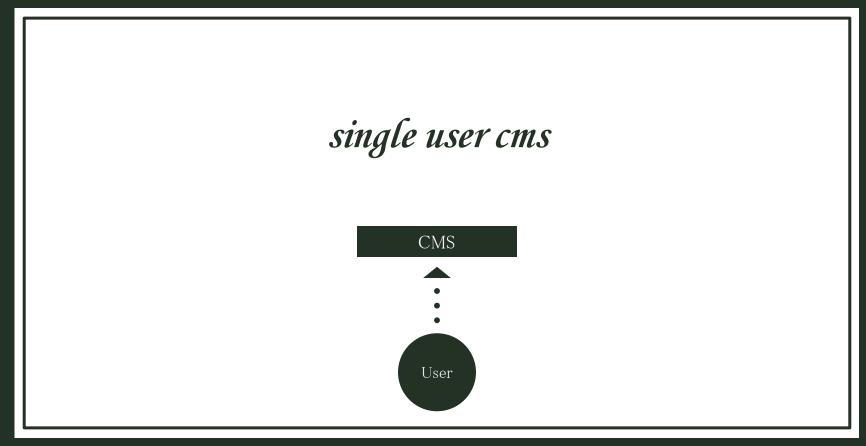












I B E A C O N

Beacon info

Dashboard

All Deacolls						
ID	UUID	MAJOR	MINOR	LONGITUDE	LATITUDE	DESCRIPTION
1	B9407F30F5F8466EAFF925556B57FE6D	3344	5566	114.2073102	22.4179243	SHB
2	B9407F30F5F8466EAFF925556B57FE6D	2	102	115 9 E	23 18 3 N	
3	B9407F30F5F8466EAFF925556B57FE6D	3	103	116 9 E	23 17 2 N	Hello Worldl
5	B9407F30F5F8466EAFF925556B57FE6D	5	105	118 9 E	24 17 2 N	
8	B9407F30F5F8466EAFF925556B57FE6D	8	108	121 9 E	26 18 3 N	
10		10	110	123 9 E	27 18 3 N	
11		11	111	124 9 E	27 17 2 N	
15		15	115	128 9 E	29 17 2 N	
17		17	117	130 9 E	30 17 2 N	
18		18	118	131 9 E	31 18 3 N	
19		19	119	132 9 E	31 17 2 N	
20		20	120	133 9 E	32 18 3 N	Some more
21		21	121	134 9 E	32 17 2 N	
22		22	122	135 9 E	33 18 3 N	
23		23	123	136 9 E	33 17 2 N	
24		24	124	137 9 E	34 18 3 N	
25		25	125	138 9 E	34 17 2 N	Last one!
137		1234	5678	hfifjr	hfidnr	hello world
139		1020	3040	long	lat	Was ist das?
172	B9407F30F5F8466EAFF925556B57FE6D	5555	6666	-74.044581	40.6895698	english 中文 עברת ใหย русский เอเまんご
173	B9407F30F5F8466EAFF925556B57FE6D	6666	7777	11.582154	48.152359	<script>alert('xss');</script>
186	E2C56DB5DFFB48D2B060D0F5A71096E0	1	2	2.25	3	Bag
187	E2C56DB5DFFB48D2B060D0F5A71096E0	1	2	2.25	3	MATSUSHO retract
188	E2C56DB5DFFB48D2B060D0F5A71096E1	4095	65535	1	1	EVEREADY
189	E2C56DB5DFFB48D2B060D0F5A71096E1	1	1	3.5	1	extend
191	B9407F30F5F8466EAFF925556B57FE6D	7776	8887	lonna	latna	des
194	inputUuid	1212	3434	lo	la	des
196	uuid again	1	3	1	II .	de
198	E2C56DB5DFFB48D2B060D0F5A71096E0	1	3			

Remove

Preview

Dashboard Add Edit Remove

Preview

Edit a beacon

OWNER

97d9e7b3f06ef1234e15613ebb6663eb

ID

172

UUID

B9407F30F5F8466EAFF925556B57FE6D

MAJOR

5555

MINOR

6666

LATITUDE

40.6895698

LONGITUDE

-74.044581

DESCRIPTION

english 中文 עברית ใทย русский にほまんご

PUBLIC DESCRIPTION

The Chung Chi College Library was first established in 1951. The present library building was built with the generous support of the Henry Luce Foundation through the United F "placeholder="optional">

PUBLIC TITLE

The Chung Chi College Elisabeth Luce Moore Library

CANCEL

PUBLIC SUBTITLE

Monday - Friday 8:20 a.m. - 10:00 p.m.
 Saturday 8:20 a.m. - 7:00 p.m. - 7:00 p.m. - 7:00 p.m.

api



json

{"status":"OK","data":{"latitude":"22.4179243","longitude":"114.2073102"}}

cross-platform

supported by many languages

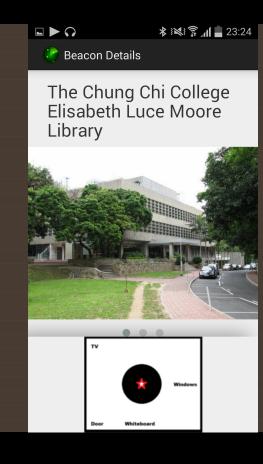
RADAR REST API DOCUMENTATION

Important notes Important notes GET notes GET notes GET API key HTTP request method Unless specified, all API calls use GET. Methods Redirection to HTTPS GET getDescription The API automatically redirects you to the encrypted HTTPS channel if you are using the unencrypted HTTP. GET getLocationById Return type GET getLocationByUuidMajorMinor Unless specified, all API calls return JSON objects. GET getQuota Return format GET setDescription The format of the returned data is similar to the JSON format specified by JSend. Please read JSend's page for details. GET setLocation {"status":status_of_call,"data":{returned_data}} About GET ourDetails {"status":"OK", "data":{"latitude":"22.4179243", "longitude":"114.2073102"}} POST comments GET API key Request an API key New Use this demo key: 97d9e7b3f06ef1234e15613ebb6663eb Methods GET getDescription

Description
Returns the description of a beacon.

android application for exhibition





This term



Android

application for visitors

Application for visitors

Complete re-design and implementation

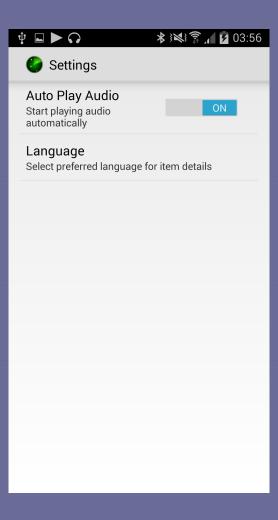
Content



Harp Seal

Basic Information The harp seal is medium in size. It has silver fur, no visible ears and harp-shaped rings on the back. A female has no prominent markings and most have a black back and are dark brown to black for the rest of the body. Males can grow to a length of 1.9m and weigh up to 140kg. Females are slightly smaller, growing to a length of 1.8m, and weighing 130kg. Pups are born with a thick snowy white coat which turns even

Settings



Multilingual content

English

正體中文



Harp Seal

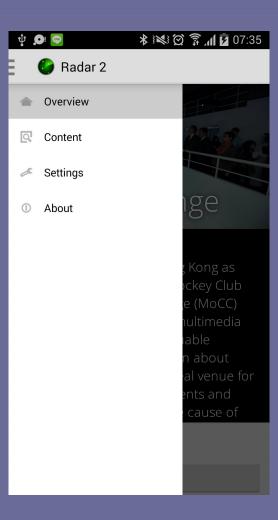
Basic Information The harp seal is medium in size. It has silver fur, no visible ears and harp-shaped rings on the back. A female has no prominent markings and most have a black back and are dark brown to black for the rest of the body. Males can grow to a length of 1.9m and weigh up to 140kg. Females are slightly smaller, growing to a length of 1.8m, and weighing 130kg. Pups are born with a thick snowy white coat which turns even



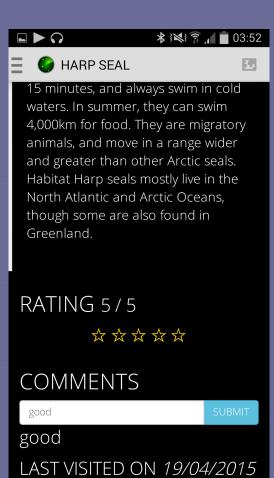
豎琴海豹

基本資料 豎琴海豹是中型的無耳海豹·銀色 毛皮,背上 有豎琴形環紋。雌性的環紋較不明顯·背部多 為黑色,其他身體部位淺至深褐色,深至黑色。雄性身長可達1.9 米·體重可達140公斤;雌 性體型略小·身長可達1.8米,體重可達130公斤。豎琴海豹幼患出生時毛皮厚實雪白·出生 後兩周內會變得更白。但兩周後·這層毛皮會開始脫落·露出銀灰色和黑色的毛皮。其他特徵 豎琴海豹能在冰上快速移動·亦是游泳健將。 牠們的前肢腳蹼緊貼身體·後肢腳蹼則緊縮在一起·藉以減少體表面積·

Intuitive navigation



Rating and comments



Exhibition overview



The first of its kind in Hong Kong as well as in the region, the Jockey Club Museum of Climate Change (MoCC) offers an interactive and multimedia exhibition showcasing valuable collections and information about climate change. It is an ideal venue for the public, especially students and teachers, to champion the cause of environmental stewardship and keep themselves abreast of the latest developments on environmental conservation and sustainability.

Floor plan



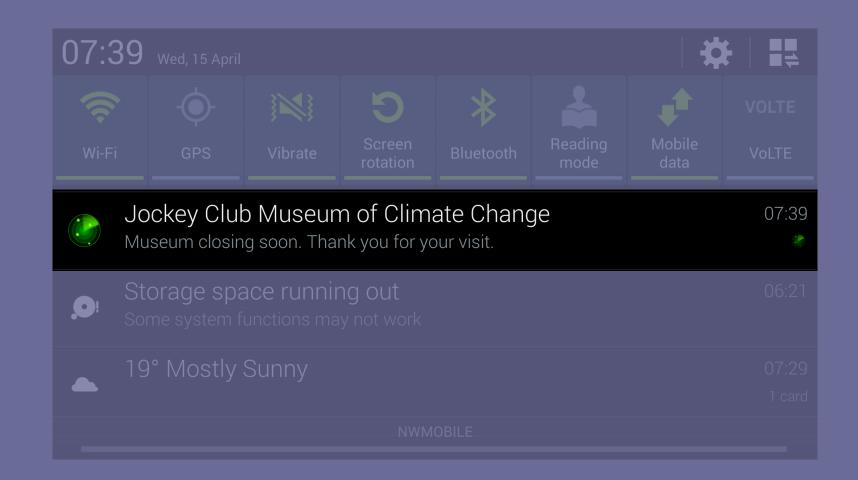




Floor Plan



Real-time notifications



(beacon deployment application)

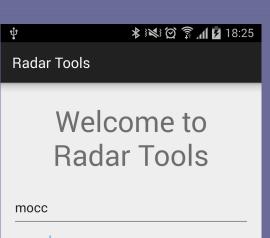
application for exhibition owners

Application for exhibition owners

New for beacon deployment

Changes commited to CMS immediately

Multi-user deployment tool



LOGIN

ABOUT

•••••

List of exhibits

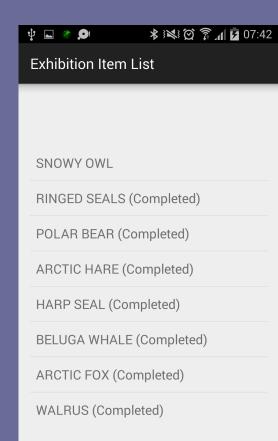


Exhibit settings

ID

Bearings (Range)



RINGED SEALS Settings

Beacon Settings

UUID 407F30F5F8466EAFF925556B57FE6D

Major 26846

Minor 36763

Angle 9 to 155

SET BEACON ID

SET RIGHT BEARING

SET LEFT BEARING

SAVE SETTINGS

We6

api

API

Added new functions

RADAR REST API DOCUMENTATION

Important notes

GET notes

GET API key

Methods

GET getDescription

GET getLocationById

GET getLocationByUddMajorMinor

GET getQuota

GET setDescription

About
GET ourDetails
POST comments

GET setLocation

Important notes GET notes HTTP request method Unless specified, all API calls use GET. Redirection to HTTPS The API automatically redirects you to the encrypted HTTPS channel if you are using the unencrypted HTTP. Return type Unless specified, all API calls return 350N objects. Return format The format of the returned data is similar to the JSON format specified by JSend. Please read JSend's page for details. Format {"status":status_of_call,"data":{returned_data}} Example {"status":"OK", "data":{"latitude":"22.4179243", "longitude":"114.2073102"}} GET API key

Request an API key

New Use this demo key: 97d9e7b3f06ef1234e15613ebb6663eb

Methods

GET getDescription

Description

Returns the description of a beacon.

Daramatara



CMS

Multi-user

One-click deployment

Backup

WYSIWYG

Analytics

Login screen



Main screen

DASHBOARD

OPERATIONS

SEARCH

ADD

TRESTORE ▼

@ OVERVIEW

ANALYTICS

✓ ANNOUNCEMENT

VISITORS IN LAST 10 MINUTES



△ LOG OUT

ITEMS

ALL BIRDS LAND MAMMALS SEA MAMMALS UNDER MAINTENANCE

ID TITLE VISITOR COUNT AVERAGE RATING COMMENT COUNT

































DASHBOARD

OPERATIONS

SEARCH

+ ADD

TRESTORE ▼

Lid ANALYTICS

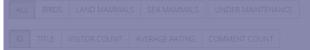
✓ ANNOUNCEMENT

VISITORS IN LAST 10 MINUTES



▲ LOG OUT

ITEMS













FLOOR PLAN

DASHBOARD

OPERATIONS

SEARCH

ADD

TRESTORE ▼

m OVERVIEW

LILL ANALYTICS

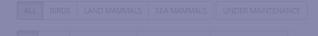
★ ANNOUNCEMEN

VISITORS IN LAST 10 MINUTES



▲ LOG OUT

ITEMS















DASHBOARD

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SEARCH

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TRESTORE ▼

m OVERVIEW

Littl ANALYTICS

★ ANNOUNCEMEN

VISITORS IN LAST 10 MINUTES



▲ LOG OUT

ITEMS

ALL BIRDS LAND MAMMALS SEA MAMMALS UNDER MAINTENANCE

ID TITLE VISITOR COUNT AVERAGE RATING COMMENT COUNT













CURRENT EXHIBITION



Idid ANALYTICS

ANNOUNCEMEN

VISITORS IN LAST 10 MINUTES



≜ LOG OUT















Navigation bar

Backup

Current exhibition

Next exhibition

RADAR

DASHBOARD

OPERATIONS

SEARCH

ADD

* RESTORE

m OVERVIEW

IIII ANALYTICS

★ ANNOUNCEMEN

VISITORS IN LAST 10 MINUTES



ITEMS



TITLE VISITOR COUNT AVERAGE RATING COMMENT COUN













Operations

Search with Regex

Add

Restore

Exhibition overview

Analytics

Operations (Con't)

Announcement

Commit

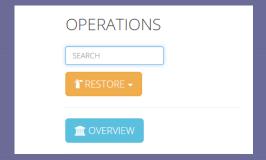
Delete all

Settings

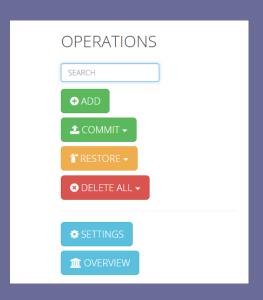
Backup

Current exhibition

Next exhibition







Search with Regex

Simple string

Regex in JavaScript style

Case-insensitive

OPERATIONS

^art{0,2}

ADD

TRESTORE ▼

m OVERVIEW

ANALYTICS

ITEMS

ALL BIRDS

5 LAND N

SEA MAMMALS

UNDER MAINTENANCE

ID

ITLE VISI

OR COUNT

AVERAGE RATING

COMMENT COUNT





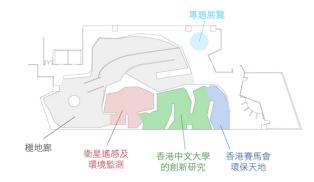
Add

Adds an exhibit

Click on the floor plan position the exhibit



ADD



CATEGORY	Select a category
UUID	UUID
MAJOR	MAJOR
MINOR	MINOR

Restore

Recovers data from / to backup, current exhibition and next exhibition



CONFIRM

FROM NEXT EXHIBITION
CONFIRM

Exhibition overview

Quick info of the exhibition

Edit overview here



OVERVIEW

OPERATIONS

CHINESE

ENGLISH



The first of its kind in Hong Kong as well as in the region, the Jockey Club Museum of Climate Change (MoCC) offers an interactive and multimedia exhibition showcasing valuable collections and information about climate change. It is an ideal venue for the public, especially students and teachers, to champion the cause of environmental stewardship and keep themselves abreast of the latest developments on environmental conservation and sustainability. Extended activities of the MoCC exhibition include eco tour that guide visitors around the prime ecological sites and green facilities on the vast CUHK campus, and a variety of workshops and activities that promote green living.

The MoCC is within 3-minute walking distance from the University MTR Station. Green building principles are adopted as one of the important architectural concepts in aspects such as introduction of day lighting, and solar shading devices, as well as energy conservation and renewable energy usage.

Analytics

Quick tool to analyse exhibit popularity

Analyses visitor count, average rating and stay duration

Data displayed at a glance using graphs



ANALYTICS

CHARTS

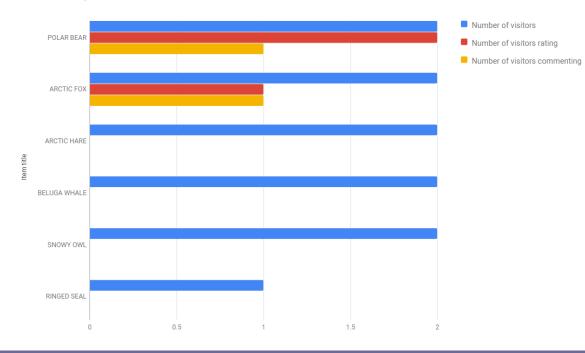


★ AVERAGE RATING

STAY DURATION

Visitor Statistics

Visitor count, rating count and comment count





ANALYTICS

CHARTS

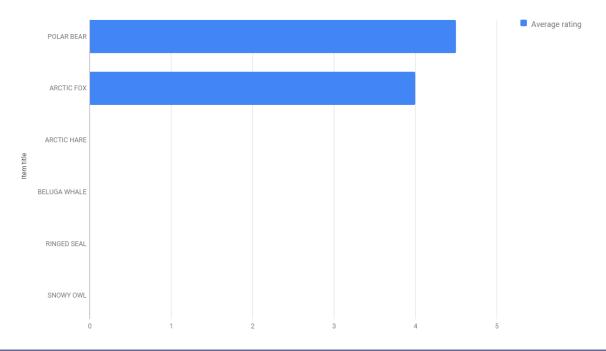
★ VISITOR COUNTS

★ AVERAGE RATING

STAY DURATION

Average Exhibit Rating

Average rating for each exhibit. Ratings range from 1 to 5





ANALYTICS

CHARTS

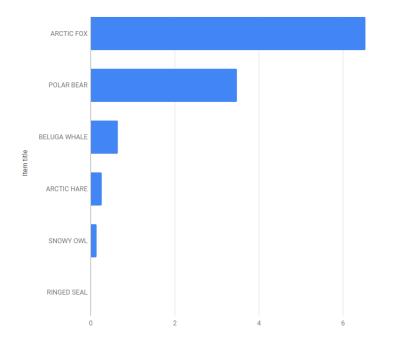
* VISITOR COUNTS

★ AVERAGE RATING

STAY DURATION

Average duration of stay at each exhibit

Average length of period tourists stay at the spot



Average number of minutes stayed

Announcement

Pushes multilingual announcements to all users

immediately

e.g. Fire alert, closing reminder



ANNOUNCEMENT

CHINESE MESSAGE

CHINESE MESSAGE

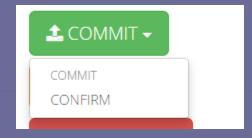
ENGLISH MESSAGE

ENGLISH MESSAGE

MAKE AN ANNOUNCEMEN

Commit

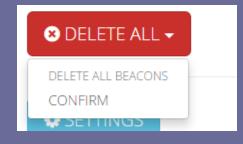
Makes changes live immediately



Delete all (reversible)

Deletes all exhibit information

Data can be rolled back to current or backup versions



Settings

Modifies the exhibition information



SETTINGS

FLOOR PLAN

http://appsrv.cse.cuhk.edu.hk/~twyeung2/mocc/images/hk_moccfloorplan.jpg



CHINESE TITLE

赛馬會氣候變化博物館

CHINESE DESCRIPTION

審馬會氣候變化博物館是香港以至東南亞第一所以氣候變化為主題的博物館,向公眾提供有關氣候變化的展品和資訊的多媒體互動展覽,讓公眾尤其學生和老師緊貼及掌握可持續發展的 趨勢,凝聚環保力量。展覽的延伸活動包括由導質員帶領遊覽中大校園生態景點和參觀綠化設施的生態行,以及推廣綠色生活的工作坊及活動。

赛馬會氣候變化博物館毗鄰港鐵大學站,步行三分鐘即可抵達。博物館的設計融會貫通錄色建築概念,包括自然採光、遮陽隔熱裝置、節約能源及使用再生能源等。

ENGLISH TITLE

Jockey Club Museum of Climate Change

ENGLISH DESCRIPTION

The first of its kind in Hong Kong as well as in the region, the lockey Club Museum of Climate Change (MoCC) offers an interactive and multimedia exhibition showcasing valuable

Visitor count

Counts visitors in the last 10 minutes

Auto updates every 15 seconds

VISITORS IN LAST 10 MINUTES







Items

Displays all exhibits

Filter

Sort

Filter

RADAR

DASHBOARD

OPERATIONS

SEARCH

O ADD

TRESTORE ▼

m OVERVIEW

Intel ANALYTICS

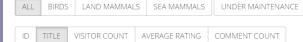
ANNOUNCEMEN'

VISITORS IN LAST 10 MINUTES



▲ LOG OUT

ITEMS















RADAR

DASHBOARD

OPERATIONS

SEARCH

G ADD

TRESTORE ▼

m OVERVIEW

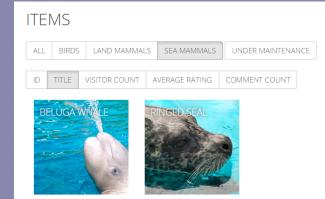
IIII ANALYTICS

★ ANNOUNCEMEN

VISITORS IN LAST 10 MINUTES



≜ LOG OUT



FLOOR PLAN



Sort

RADAR

DASHBOARD

OPERATIONS

SEARCH

O ADD

TRESTORE ▼

m OVERVIEW

Intel ANALYTICS

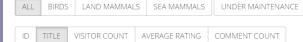
ANNOUNCEMEN'

VISITORS IN LAST 10 MINUTES



▲ LOG OUT

ITEMS















RADAR

DASHBOARD

OPERATIONS

SEARCH

G ADD

TRESTORE ▼

m OVERVIEW

Litt ANALYTICS

★ ANNOUNCEMEN

VISITORS IN LAST 10 MINUTES



▲ LOG OUT

ITEMS

ALL BIRDS LAND MAMMALS SEA MAMMALS UNDER MAINTENANCE

ID TITLE VISITOR COUNT AVERAGE RATING COMMENT COUNT













ARCTIC FOX

FLOOR PLAN

Preview

Shows details of a particular exhibit



PREVIEW

DETAILS

UUID: B9407F30F5F8466EAFF925556B57FE6D

MAJOR: 26846

MINOR: 36763

COMPASS ANGLE: 105 to 178

MAINTENANCE

OFF

LANGUAGE

CHINESE

ENGLISH

STATISTICS

VISITOR COUNT



AVERAGE RATING



RATED BY





The polar bear is the largest member of the bear family. It is also the largest carnivorous animal on land. The polar bear is distinguished from other members of its species by its long body and the characteristic shape of its neck and skull. Male and female bears differ greatly in body weight. Males (350-800kg) weigh more than twice as much as females (150-300kg). Weights vary with the seasons. In particular, pregnant females may be twice as heavy in late summer as in early spring.

Fur

The fur of a polar bear consists of a layer of dense underfur and an outer layer of guard hair which looks white but is actually transparent. This bright white coat provides good camouflage in the snow, protecting bears from the threat of human hunters and helping them to track and hunt down seals. The thick, glossy coat of fur also covers a fat layer under the skin and keeps the bear warm.



PRFVIFW

DETAILS

UUID: B9407F30F5F8466EAFF925556B57FE6D

MAJOR: 26846

MINOR: 36763

COMPASS ANGLE: 105 to 178

MAINTENANCE

OFF

LANGUAGE

CHINESE

ENGLISH

STATISTICS

VISITOR COUNT



AVERAGE RATING



RATED BY





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Details

UUID

Major

Minor

Compass angles

DETAILS

UUID: B9407F30F5F8466EAFF925556B57FE6D

MAJOR: 26846

MINOR: 36763

COMPASS ANGLE: 105 to 178

Maintenance

Toggle on and off

MAINTENANCE

Language

English

正體中文

LANGUAGE

CHINESE

ENGLISH

Statistics

Visitor count

Average rating

Rated by

Comment count

Average stay duration

STATISTICS

VISITOR COUNT



AVERAGE RATING



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AVERAGE STAY DURATION



Cover photos slideshow

Displays all photos of the exhibit



Description

Describes the exhibits

The polar bear is the largest member of the bear family. It is also the largest carnivorous animal on land. The polar bear is distinguished from other members of its species by its long body and the characteristic shape of its neck and skull. Male and female bears differ greatly in body weight. Males (350-800kg) weigh more than twice as much as females (150-300kg). Weights vary with the seasons. In particular, pregnant females may be twice as heavy in late summer as in early spring.

Fur

The fur of a polar bear consists of a layer of dense underfur and an outer layer of guard hair which looks white but is actually transparent. This bright white coat provides good camouflage in the snow, protecting bears from the threat of human hunters and helping them to track and hunt down seals. The thick, glossy coat of fur also covers a fat layer under the skin and keeps the bear warm.

Other Characteristics

The polar bear has a long and narrow head, which is smaller than that of other bears. It also has smaller ears, which are covered by a thin layer of fur. Its long incisors are needed for hunting, and its sharp molars are essential for its mainly carnivorous diet. Its large, strong palms enables it to smash holes in the ice and hunt seals. It also has non-retractable straight, sharp brown claws.

Food Polar bears mainly feed on ringed seals, but their diet also occasionally includes bearded seals. Other known food sources include young walruses, carcasses of beluga whales and right whales, birds, vegetation and seaweed. Polar bears commonly travel long distances to hunt for food.

Behaviour Polar bears lead solitary lives except when pregnant or rearing their young.

Habitat Polar bears are found throughout the Arctic Circle, along the shoreline, on islands and most commonly on floating ice. They hunt, live, reproduce and build lairs on large masses of stable floating ice in the Arctic region all year round.

Comments

Displays all comments below the description

COMMENTS is it found in south pole?

SHB Reading Room on 6/F

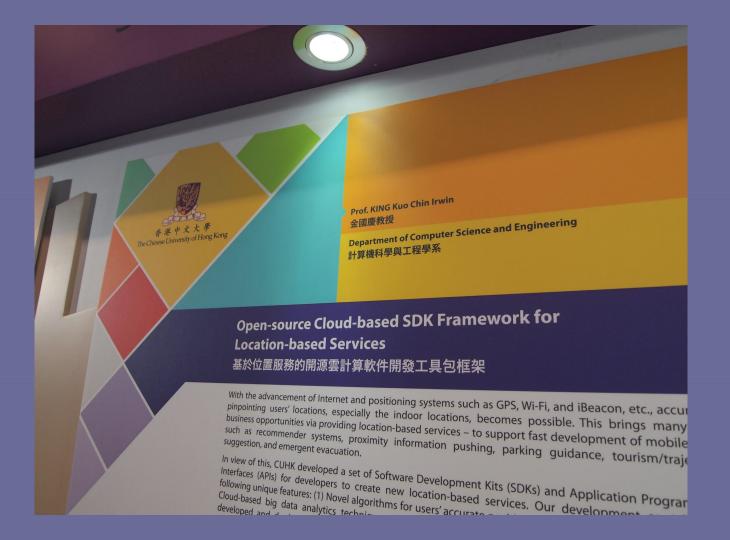


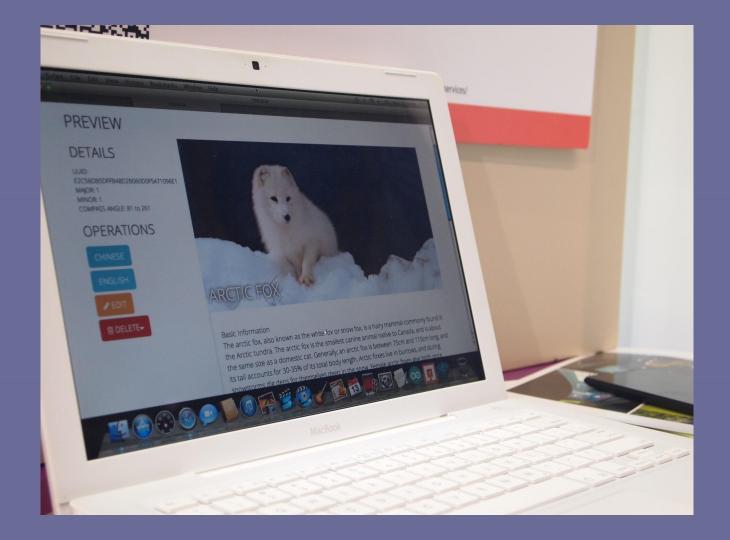


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Next



iOS application



merchant-specific system



automatic commits



analytics with inferences





Slide number one hundred thirty nine

suggestions on deployment

Slide number one hundred forty

ID is public Never use in transactions Signal strength matters

Exhibition Navigation with iBeacon

lyu

Thank you lyu1403.