COMM 5961

FlatIsland Peng Chau

https://kayleunghc.pythonanywhere.com/



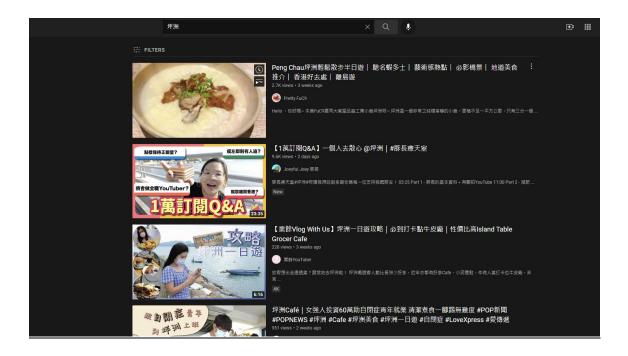
Problem Background

There is an increasing popularity in Lantau Islands in the recent years. Cheung Chau used to be a popular island that people would like to visit during weekends. In the recent years, Peng Chau has gradually developed. Not only are there more and more land developers, eg Sino, complete their development in Peng Chau, bring in more new residents, there are more tourists coming in.

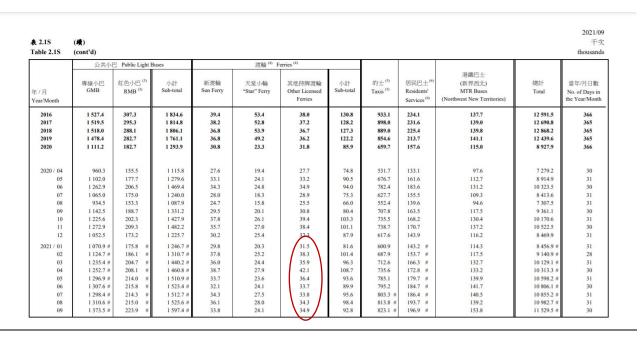
Peng Chau has changed from an outlying island only for residential in 10 years ago to an island with new elements target at tourists. As a local resident in Peng Chau, I have seen rapid development on the island. Many people have taken the advantages of the growing popularity of Peng Chau and opened new shops on the island.

Below shows the search results of "Peng Chau" on Google and YouTube in this month. The search results show the popularity of Peng Chau as more and more people are introducing this place to others.





The growing popularity can also be reflected from the number of people taking the ferry. From the September 2021 Monthly Report launched by the Transportation Department, other licensed ferries which Peng Chau is included, there is a growing trend of people taking the ferries in a month with a record of 34.9 thousands in September and a peak of 42.1 thousands in April 2021.



Transport Department September 2021 Monthly Report

The below pictures retrieved from residents also reflect the situation of people queuing up for ferry to Peng Chau in the past two months.





Problem

Demand

With the growing popularity of Peng Chau, people always wonder what they can do in this place. Even though there are numbers of videos and blogs introducing the place, the information is so dispersed, or they just highlight the hot spots. Some information is missing on the internet, like the workshops in Peng Chau, tourists may not be able to get this information unless they follow the social pages of those workshop organizers. Therefore, this website aims to resolve the problem of dispersed, invalid or outdated information to facilitate their trip planning journey by consolidating all the valid and up-to-date information.

Problem statement

How might we make people who are new to Peng Chau too address the problem of dispersed, inaccurate and outdated information about Peng Chau on the internet to achieve the goal of better planning and experience for their trip to Peng Chau?

Supply

Tourism generates a great part of the revenue of the shops on Peng Chau. However, some shops they lack channels to promote their shops and most of them currently are lacking the booking system. The long queue always diverts the customers away. This website aims at providing a place for them to promote and offer a booking system for them.

Problem statement

How might we make the shop owner address the problem of not having enough promotion of their shops and the unavailability of the booking system to achieve the goal of generating more revenue for them from the tourists?

Target Persona

- 1. Youngsters who aged between 18 25 years old who like to explore new places with their friends.
- 2. Local shop owners who would like to expand their business in the tourist sectors.

Competitors and positioning



Trip planning on Peng Chau

Requirement

Information Requirement

In order to provide a consolidated website for all the information that a user will need during trip planning.

1. Activity

- a. Information activity, like sightseeing spots, sport activities, workshops etc, will be needed.
- b. Detailed information includes the type of the activity and what they can do there.

2. Restaurants

a. Restaurant's information includes type, address, phone number, recommendation and description.

3. Traditional events

- a. Information about traditional event will facilitate users who would like to experience the traditional events and feel the vibe to plan the date of travelling to Peng Chau.
- b. The date, picture and a brief description will be provided for users to have a glance on the events.

4. Transportation

- a. Transportation includes all the information of the origins and destinations that tourists from and to.
- b. Information on private boats will be provided as well.

Functional Requirement

1. Map

a. Mapping function will demonstrate the location of the hot places.

2. Carousel banner

a. It acts as a promotion space for any partners would like to promote their activities/shops.

3. Forum

a. Discussion forum is exclusive to registered members where they can share their trip experiences.

4. Booking

a. Booking function is exclusive to registered members where they can book our partnership stores to plan their journey ahead.

5. Reviews

a. Review function is available for each place and store where users can take other comments into consideration, for registered members, they can also leave a review.

6. Direct link to the social networking sites of certain activity organizers

a. Linking to the social networking sites will allow users who are interested in the activity to have a look on the more detailed information from the social networking sites.

Data Requirement

Data is scrapped from TripAdvisor.com.

Sources of data:

- 1. Openrice
 - a. Address
- 2. Tourism Board
 - a. Traditional events
- 3. Social Networking Sites of the shops
 - a. Contact details and opening hours
 - b. Description

Additional sources for missing data:

- 1. Firsthand data
 - a. Directly visit the shops to look for information
 - b. Personal experiences
 - c. Asking the Rural Committee Members for the events

<u>Design</u>

Design Prototypes

Design prototypes for desktop and mobile version of the website were set up through Figma.

Desktop version: https://www.figma.com/proto/luoOTWNCeqTLa6aj0Lm9l0/Peng-Chau-Website?node-id=144%3A394&starting-point-node-id=144%3A394

Mobile version: https://www.figma.com/file/axN6AwYxZBU8bSNgPsANf2/Peng-Chau-Mobile

Usability Test Result

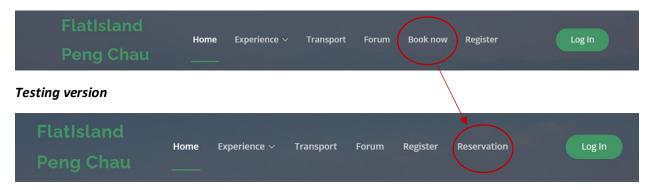
Usability tests were conducted with five users. Usability test result summary as below.

	Task 1	Task 2	Task 3	Task 4
Task details	information searching on the website when they want to explore more about Peng Chau	search for the information they need when they are asked to plan for a trip to Peng Chau	perform the reservation	share their experiences, trips, comments and feelings after the completion of the trip
Successful Completion Rate	100%	100%	40%	100%
Average Time Used	1:41	2:40	2:00	0:48
Longest Completion Time	2:45	7:51	/	1:08
Shortest Completion Time	0:51	0:35	/	0:25
Time Base Efficiency (goals/sec)	0:17	0:53	0.013	8:31
Observation/Comment	Only 2 participants would look at the top activities and food in the home page	 3/5 participants also browse the shop category in this task 2/3 suggested that reviews from others are important the wording of "events" and "activities" is confusing 4/5 comment that the ferry schedule is important 	 1 suggested that it was too troublesome to be redirected to the registration and log-in page after she has filled all the information 1 noticed the reservation button but did not click 2 did not even click into the item details page; therefore, they were not able to complete the task 	1. the comment icon was confusing, she did not know if that meant editing a post or commenting to others' posts.

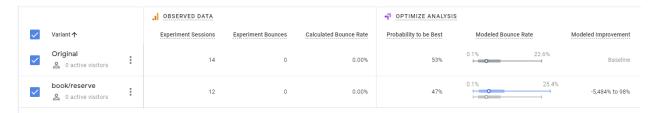
A/B Test

A/B test is used to test which the wordings and the position of the booking function is better.

Original



Result



The original version is slight better than the testing version so original version will be used in the website.

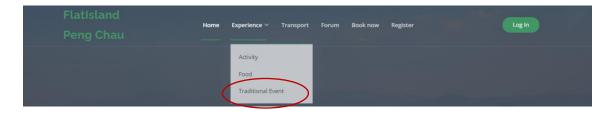
Refined Design

After the usability test and the A/B test, design is fined. Majors refine as follow,

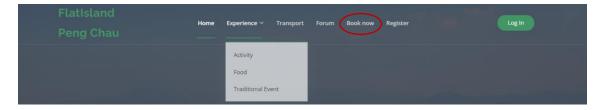
1. Carousel banner is placed under the main visual to enhance the exposure of event/ store promotion.



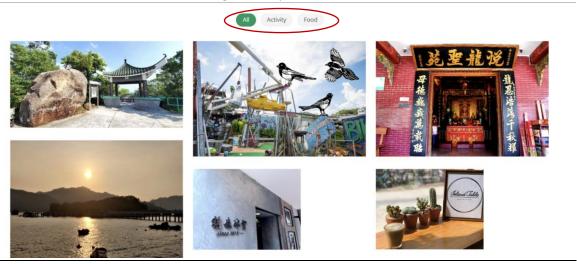
2. "Event" is changed to "Traditional Event" for reduce confusion between "Activity" and "Event"



3. Booking function is placed in the navigation bar to increase the chance of usage



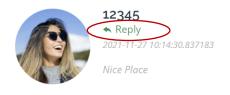
4. _For "Trending" section, all the hot items are placed together with selection function where users can view the hot items according to their preferences.



5. _After clicking the "Book now", users will be redirected to the log in page before they can make a booking to enhance the usability.

6. The "reply" logo in the forum is changed and added with "reply", while the adding new post function is change to "say something", to reduce confusion between logo.





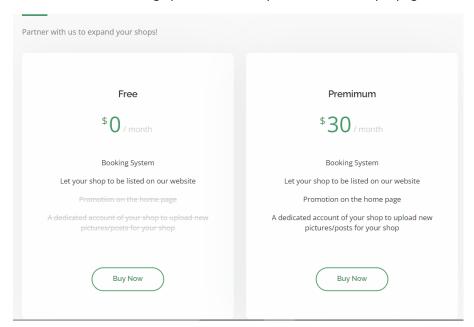
Business Aspect

With a successful example of a website developed by Hong Kong Resort Co. Ltd on Discovery Bay, which provides same function for Discovery Bay. Link: https://www.visitdiscoverybay.com/en/home/ It is believed that same idea is applicable to Peng Chau.

1. Partnership scheme

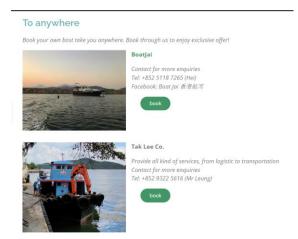
This aims to provide different kinds of partnerships with the shops. There are two choices for the partnership.

- a. Free of charge:
 - i. To have their shops listed on our website
 - ii. Enjoy the booking system if they want.
- b. \$30 per month:
 - i. Promotion on the home page of the website
 - ii. With a dedicated business account for their shops to promote and have their message pinned at the top of their own shop's page.



2. Exclusive offer

The shop owners or service providers will provide exclusive offer for users who book through our website. Below are some examples,



a. BoatJai

i. It will only provide Peng Chau services for users that book through our website

b. TakLee

i. Discounted price for logistic service that book through our website

3. Booking Service

Currently, there is no booking platform for the tourists to make reservation for the activities or restaurants. Tourists will usually have to come and find out the information in person. Therefore, this website will be the first website not only providing up-to-date information but also the first booking platform for Peng Chau.

4. Offline promotion

Our partner stores or service providers will stick the QR code of our website to notify that booking service is available on our website. This help with the offline promotion of our website.

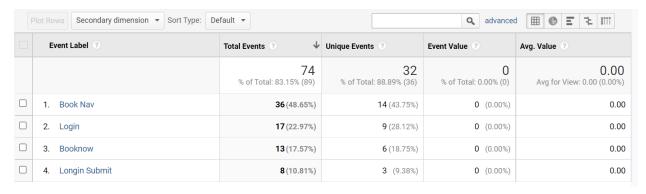


The website provides over 30 restaurant choices and over 20 activities information. The corporation with the service providers and shop owners will certainly be the greatest revenue of the website.

Evaluation

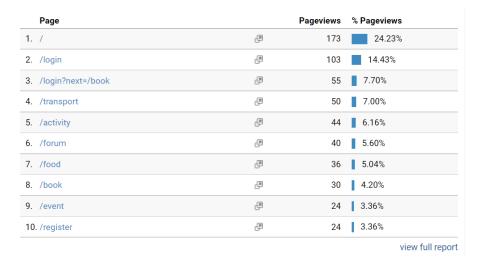
Booking function is the Unique Selling Point (USP) of the website, therefore, special tracking is added to the booking button in the navigation bar and the submission button in the booking form. As booking is exclusive to members only, therefore, login rate is tracked as well.

Below shows that the book button in the navigation bar records the highest click rate which means people are interested in the booking function. But the membership function may lower the intention to commit a booking in the system. Therefore, in the future, if the website generates enough revenue, the business model can consider open the booking function to the public but let exclusive offer remains for member only.



Below data shows that transport and activity are the top pages that viewed by the users, except book and login. Therefore, these are considered as important elements on the website. Frequent update on the activity information is needed in the future when maintaining the website.

For transportation, future cooperation with ferry company can be considered to allow access to the API of their company to show the real-time number of passengers taking the ferry.



For future development, except for Peng Chau, the websites can further expand its scope to other popular islands, like Cheung Chau and Lamma Island. Information for cross-islands activities can be included to allow users to plan islands trip.

Appendix

1. Figma Prototypes:

Desktop version: https://www.figma.com/proto/luoOTWNCeqTLa6aj0Lm9l0/Peng-Chau-Website?node-id=144%3A394&starting-point-node-id=144%3A394

Mobile version: https://www.figma.com/file/axN6AwYxZBU8bSNgPsANf2/Peng-Chau-Mobile

2. Bootstrap Templates

https://bootstrapmade.com/demo/templates/KnightOne/#
https://bootstrapmade.com/family-multipurpose-html-bootstrap-template-free/
https://bootstrapmade.com/medicio-free-bootstrap-theme/download/

- 3. Openrice
- 4. Tourism Board
- 5. Transport Department
- 6. TripAdvisor
- 7. Google Analytics, Google Optimize, Google Tag Manager
 - a. Account name: FlatIsland Peng Chau
- 8. Persona

