

Online Booking System

Queen Sirikit Botanic **Garden**



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Chapter 1 : Project Scope

Purpose of product

For accommodate a booking ticket of Queen Sirikit Botanic Garden via Online System.

Working Area

On Website by using Desktop PC and Mobile.

Features

- Booking a Ticket.
- Change a booked date and time.
- Checking an available date and time.
- Display weather forecast of the local area around the garden.
- Display persuasive information of Queen Sirikit Botanic Garden.

Administrator Features:

- View booked tickets information.
- Notify the customers when the service is unavailable.

Constrains

- Customers can book a ticket from 8.30 until 16.00. The booking separates into a time slot, each slot has spent 30 minutes for 15 persons.
- Booking can be made up to 30 days.
- Maximum book for 5 persons per booking.
- Customers can change booked date and time, before 2 hours of booked time.

Stakeholders

- Booking Management Administrator
- Booking Clerk
- Customer

Assumption

- **Is it worthwhile to do/finish this?**

Yes, it worth because the online booking system provides more convenience for the customer.

- **Does it make (economic) sense?**

Yes, it makes sense because the online booking system is an alternative way to increase the number of customers.

- **What risks are involved?**

The website might be vulnerable to hackers.

Rival programs

There is no system for providing online booking ticket website of Queen Sirikit Botanic Garden. However, there is online booking website which provides online booking ticket for another place.

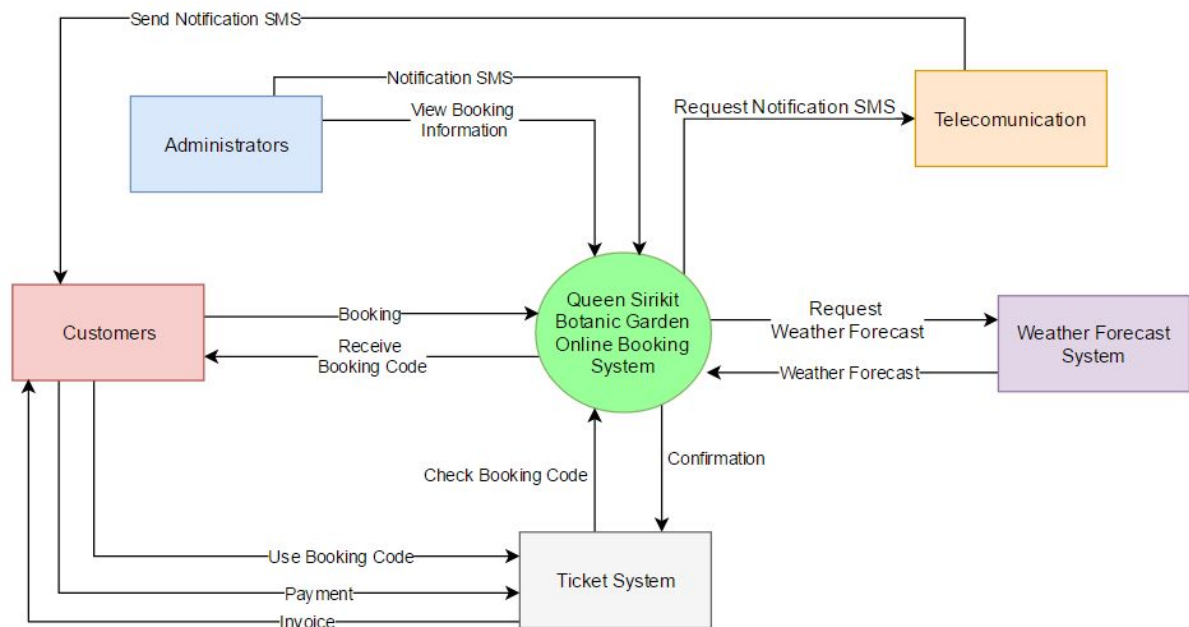


Diagram explains the overview operations of an online booking system.

Business activity

1. Customers request a booking via online services. In return, customers receive a booking code.
2. Customers use a booking code to receive a ticket and make a payment at the ticket system.

Adjacent systems

1. The ticket system will check a booking code of customers with online booking system.
2. The system will provide the weather forecast for the customers from the weather forecast system.
3. The telecommunication receives a request notification message of Administration from online booking system. Then, it will send a Short Message Service (SMS) to customers.

Chapter 2 : User Requirement Specification

Feature #1 : Booking Ticket

URS-01 : Customers can booking the ticket by inform a date, time slot and input a number of visitors, full name and phone number.

URS-02 : Customers can change the booked date and time by using the booking code.

URS-03 : Administrators can see the booking information which includes full names and phone numbers of visitors by choosing a date and time slot.

URS-04 : Administrators can notify the customers when the service is unavailable by sending a Short Message Service (SMS) automatically.

Feature #2 : Informative

URS-05 : Customers can view the recommendation that includes a short description and photo of the garden which has Glasshouse Complex, Natural Science Museum, Canopy walkway and the gallery of the garden.

URS-06 : Customers can view samples picture of the garden.

URS-07 : Customers can view a forecast weather of the local area around the garden which includes the date, time and temperature.

Chapter 3 : Software Requirement Specification

Functional Requirement

URS-01 : Customers can booking the ticket by inform a date, time slot and input a number of visitors, full name and phone number.

SRS-01: The system shall provide a form to collect booking date, booking time, a number of visitors, full name and phone number.

SRS-02: The system shall be able to validate the format of booking information, if the information is incorrect, the system shall notify the user with message "Your information is incorrect".

SRS-03: The system shall provide the "Confirm" button which used to confirm the booking ticket process.

SRS-04: The system shall add the booking information which includes the number of visitors, name and phone number into the database.

SRS-05: The system shall be able to generate the booking code in the form of numeric code.

SRS-06: The system shall be able to display the booking code after the user clicks the "Confirm" button.

URS-02 : Customers can change the booked date and time by using the booking code.

SRS-07: The system shall allow the user to input the booking code.

SRS-08: The system shall be able to validate the booked time. If the comparison between the current time and the booked time is less than 2 hours, the system shall notify the user with message "The comparison of the current time and the booking time slot is less than 2 hours, you can't change the time slot !".

SRS-09: The system shall be able to validate the received booking code from the user and compare with the same booking code within the database, If the booking code does not exist, the system will notify the user.

SRS-10: The system shall provide a form to collect booking date and booking time.

SRS-11: The system shall provide the booked information which include a number of visitors, full name and phone number.

SRS-12: The system shall provide the "Change" button which confirms the change process.

SRS-13: The system shall be able to update the booking date and time within the database.

URS-03 : Administrators can see the booking information which includes full names and phone numbers of visitors by choosing a date and time slot.

SRS-10: The system shall provide a form to collect booking date and booking time.

SRS-14: The system shall display the list of booking information according to the selected date and time slot which includes a number of visitors, full names, and phone numbers.

URS-04 : Administrators can notify the customers when the service is unavailable by sending a Short Message Service (SMS) automatically.

SRS-10: The system shall provide a form to collect booking date and booking time.

SRS-15: The system shall allow the user to input an informing message.

SRS-16: The system shall provide the “Send” button which sends the messages that administrators input to the customer.

SRS-17: The system shall be able to send the messages that administrators input via the Short Message Service (SMS).

URS-05 : Customers can view the recommendation that includes a short description and photo of the garden which has Glasshouse Complex, Natural Science Museum, Canopy walkway and the gallery of the garden.

SRS-18: The system shall display the special part information of the garden which consists of a picture and a short of description.

URS-06 : Customers can view samples picture of the garden.

SRS-19: The system shall be able to display the samples picture of the garden.

SRS-20: The system shall be able to display the larger picture when the user clicks on the sample picture of the garden.

URS-07 : Customers can view a forecast weather of the local area around the garden which includes the date, time and temperature.

SRS-21: The system shall be able to display the weekly weather forecast which consists of the date and temperature on each day.

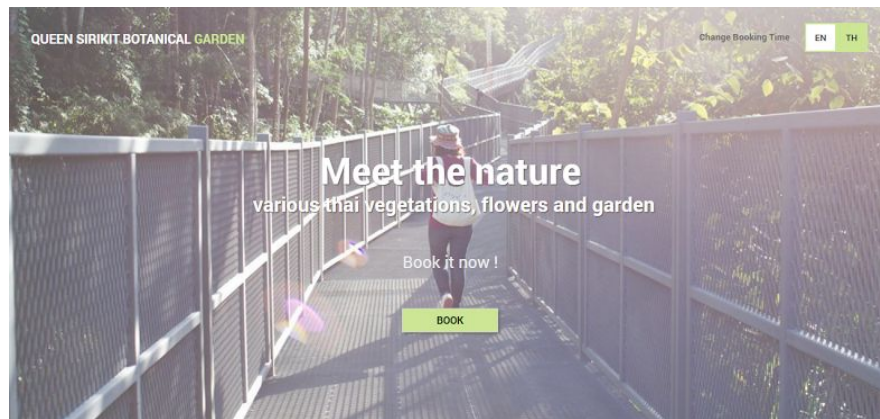
SRS-22: The system shall display the daily forecast weather which consists of the date, time and temperature on each time when the user clicks on the day of the week.

Non-Functional Requirement

- The website should good-looking on the mobile.
- The website should support English and Thai language.
- The website must consist green color. (#CCE696)
- A background of the website must consist of Canopy walkway picture.

Chapter 4 : User Interface Design

UI-A : Landing Page



Natural Science Museum

Natural Science Museum collects the thing about the plant to be a benefit for the educator.

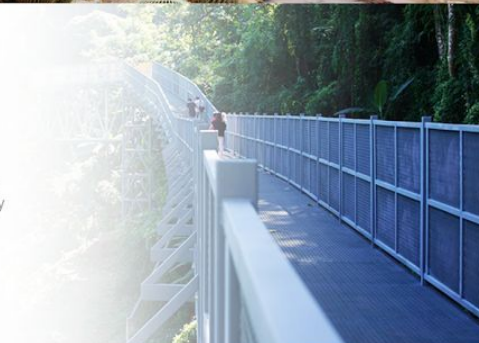
Glasshouse Complex

Comprises 4 exhibition conservatories and 8 glasshouses with themed plant collections

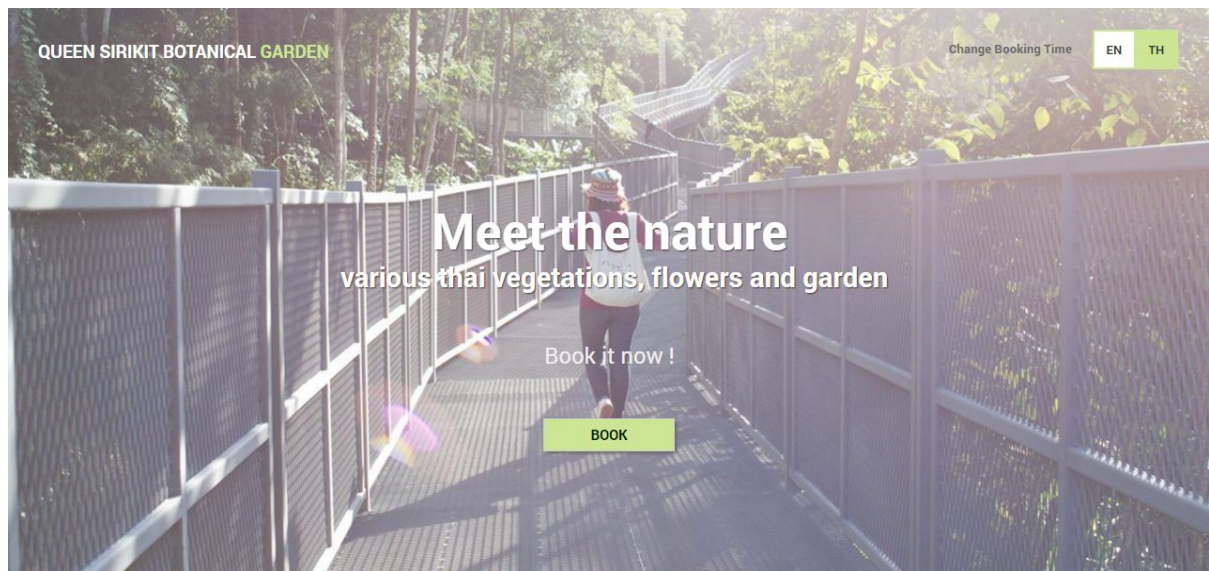


Canopy Walkway

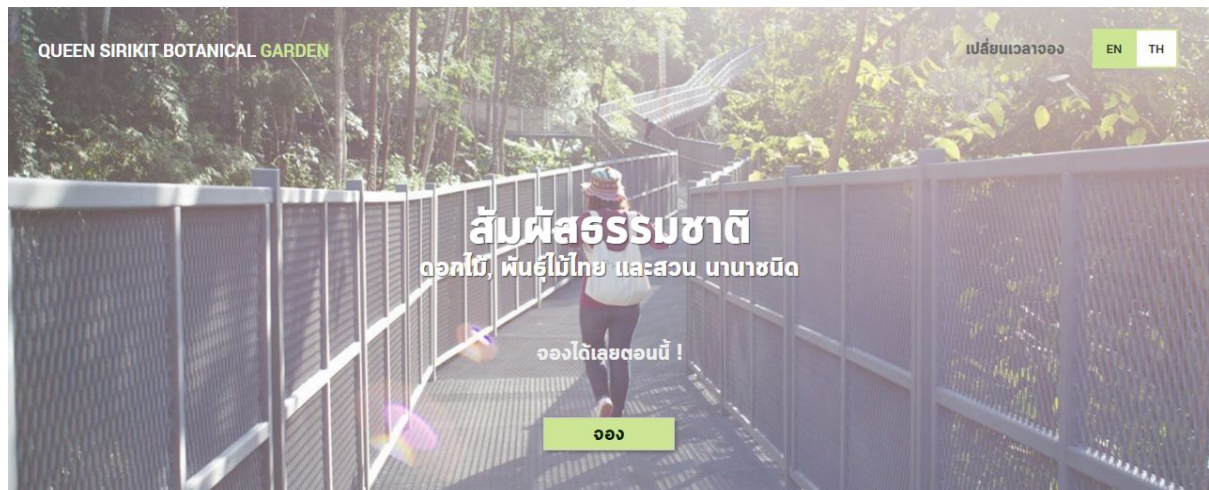
Visitors can get a bird's-eye view of the garden from the tree tops and sections of the walkway will also have a glass floor.



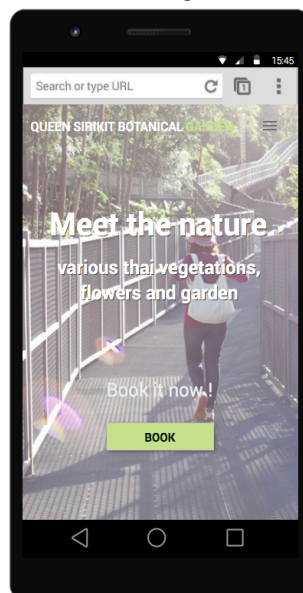
UI-A-01-01 : Booking Section



UI-A-01-01 : Booking Section in English

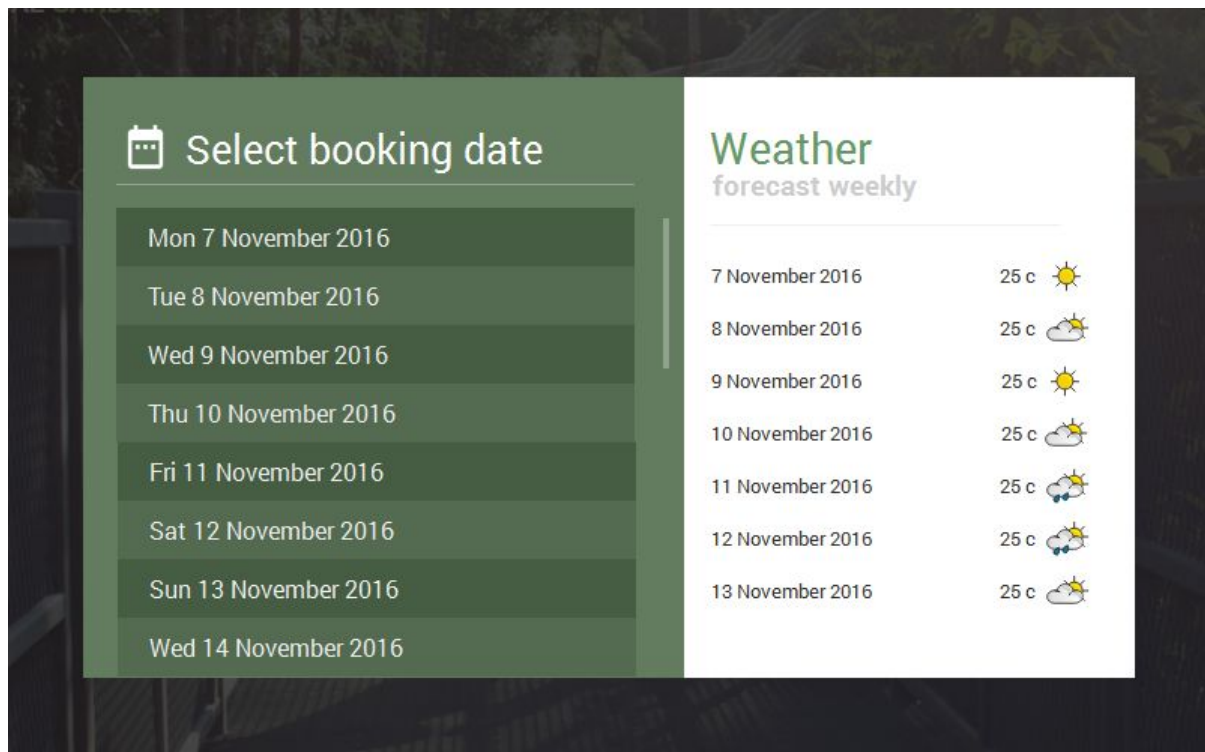


UI-A-01-01 : Booking Section in Thai



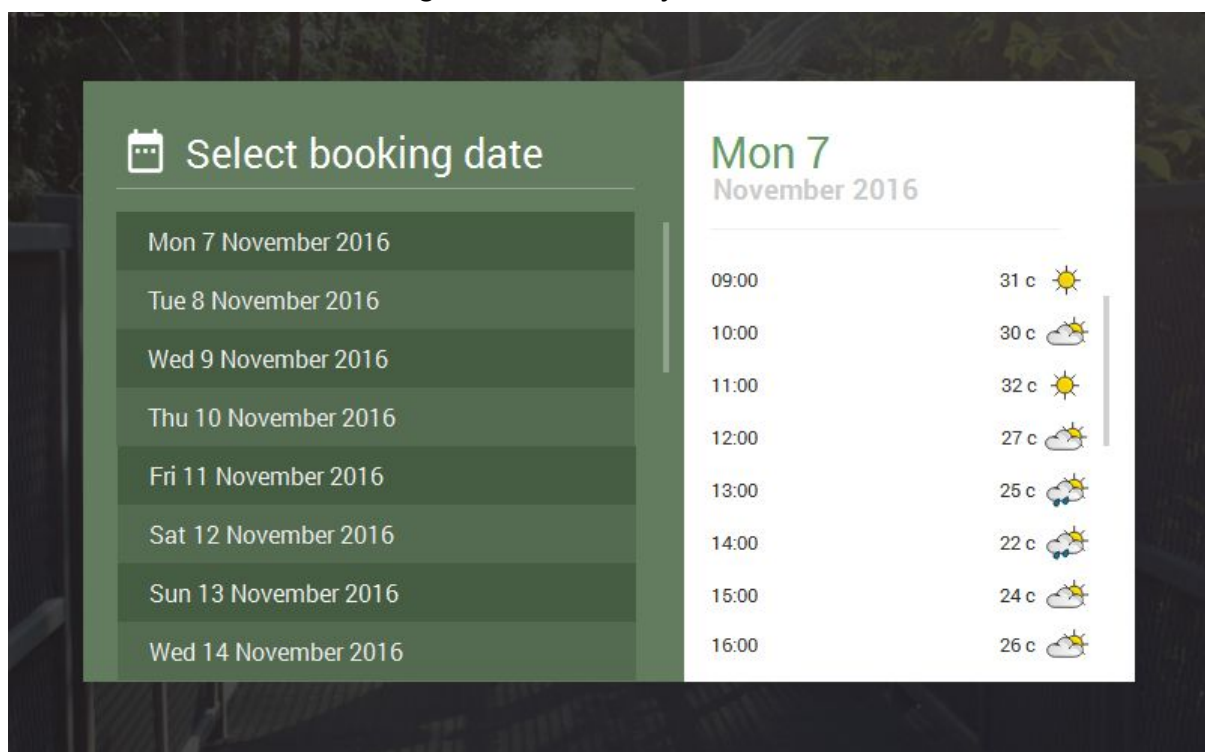
UI-A-01-01 : Booking Section on Mobile

UI-A-01-02 : Select Booking Date with Weekly Weather Forecast



UI-A-01-02 : Select Booking Date with Weekly Weather Forecast

UI-A-01-03 : Select Booking Date with Daily Weather Forecast



UI-A-01-03 : Select Booking Date with Daily Weather Forecast (after select a day in week)

UI-A-01-04 : Select Booking Time

Select Time slot

08.30 - 09.00	6/15	11.00 - 11.30	1/15	13.30 - 14.00	14/15
09.00 - 09.30	2/15	11.30 - 12.00	9/15	14.00 - 14.30	3/15
09.30 - 10.00	7/15	12.00 - 12.30	8/15	14.30 - 15.00	0/15
10.00 - 10.30	0/15	12.30 - 13.00	4/15	15.00 - 15.30	9/15
10.30 - 11.00	11/15	13.00 - 13.30	15/15	15.30 - 16.00	5/15

UI-A-01-04 : Select Booking Time

UI-A-01-05 : Input Booking Information

Your Information

Number of Visitors :

Full Name :

Phone Number :

* In case of rain, we will cancel the booking automatically

Confirm

Mon 7

November 2016

Time

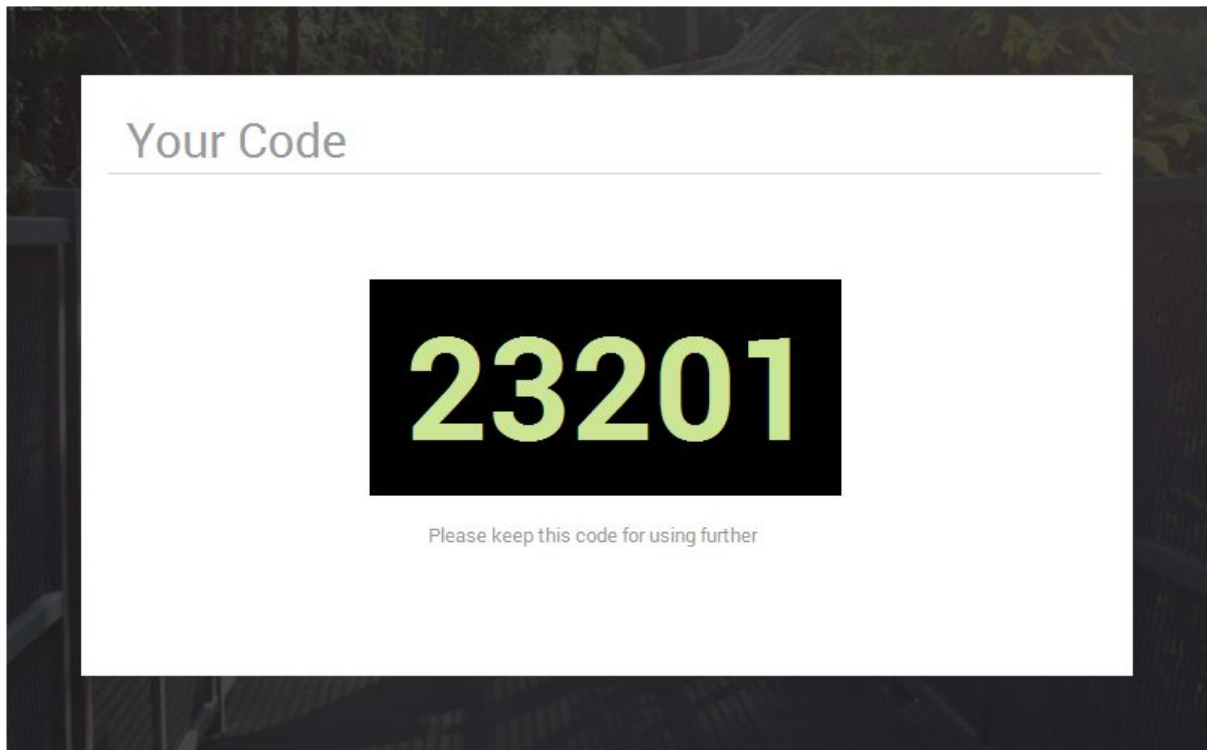
08.30 - 09.00

Number of Visitors

6/15

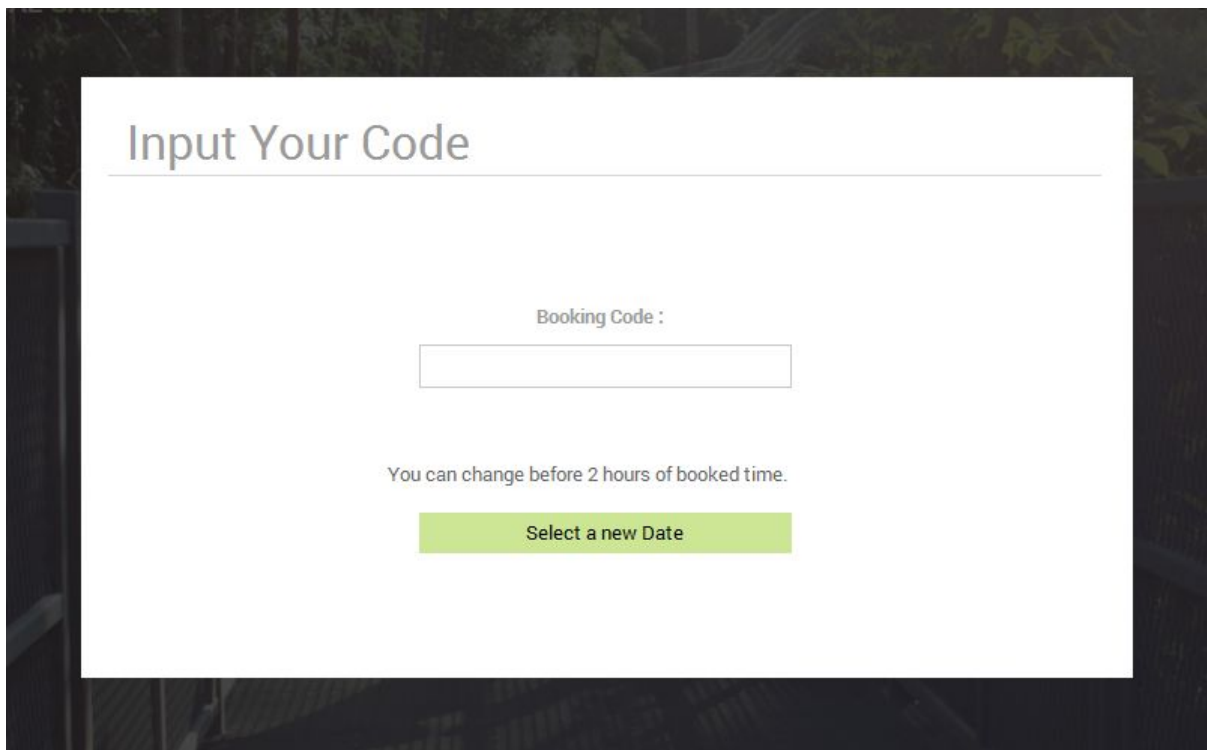
UI-A-01-05 : Input Booking Information

UI-A-01-06 : Generate Booking Code



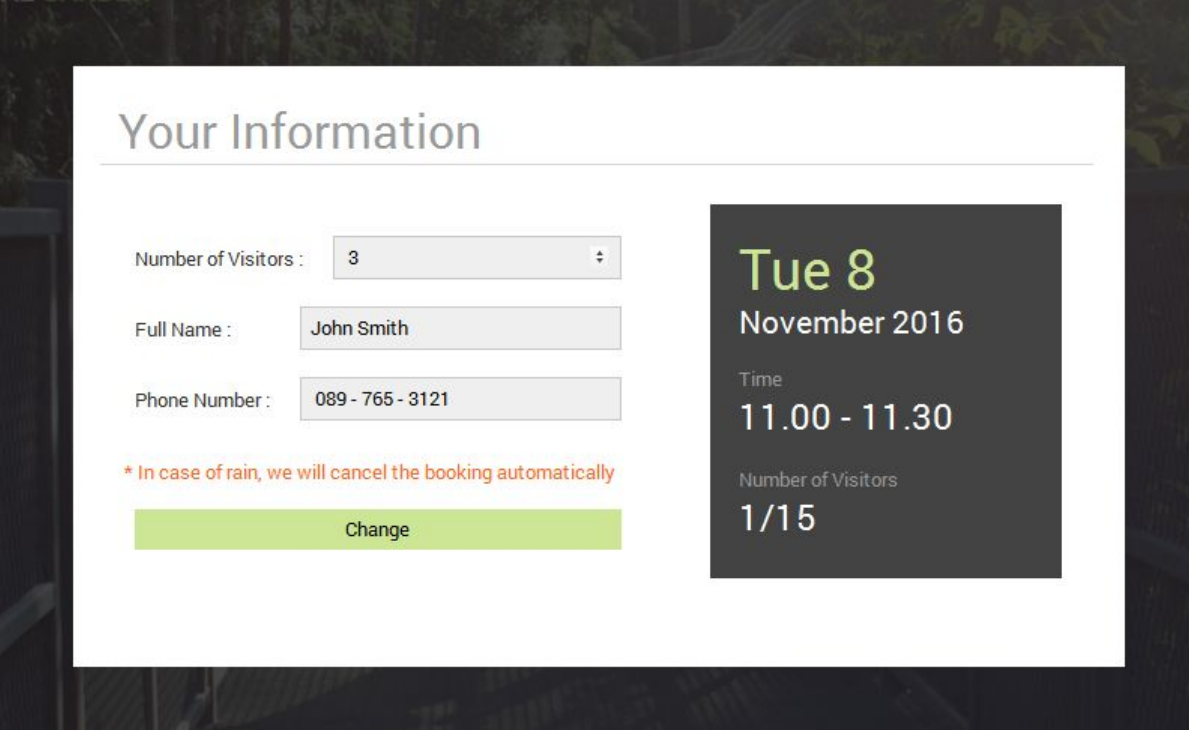
UI-A-01-06 : Generate Booking Code

UI-A-01-07 : Input Booking Code for change booking time



UI-A-01-07 : Input Booking Code (after clicked on "Change Booking Time" menu)

UI-A-01-08 : Change booking confirm



The screenshot shows a web form titled "Your Information" with a light green background. It contains three input fields: "Number of Visitors" with a dropdown menu showing "3", "Full Name" with the text "John Smith", and "Phone Number" with the text "089 - 765 - 3121". Below these fields is a red asterisk followed by the text "* In case of rain, we will cancel the booking automatically". At the bottom of the form is a green button labeled "Change". To the right of the form is a dark grey box containing booking details: "Tue 8" in large green font, "November 2016" in white, "Time 11.00 - 11.30" in white, and "Number of Visitors 1/15" in white.

Your Information

Number of Visitors : 3

Full Name : John Smith

Phone Number : 089 - 765 - 3121

* In case of rain, we will cancel the booking automatically

Change

Tue 8
November 2016

Time
11.00 - 11.30

Number of Visitors
1/15

UI-A-01-08 : Change booking confirm (after selected a new date and time)

UI-A-02-01 : Natural Science Museum information Section



UI-A-02-01 : Natural Science Museum information Section

UI-A-03-01 : Glasshouse Complex information Section

Glasshouse Complex

Comprises 4 exhibition conservatories and 8 glasshouses with themed plant collections

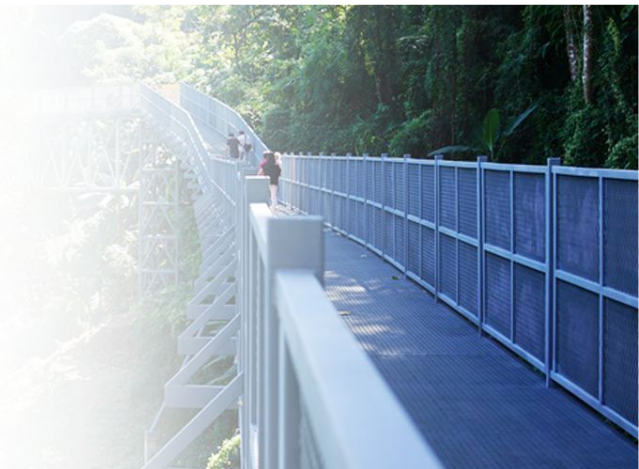


UI-A-03-01 : Glasshouse Complex information Section

UI-A-04-01 : Canopy walkway information Section

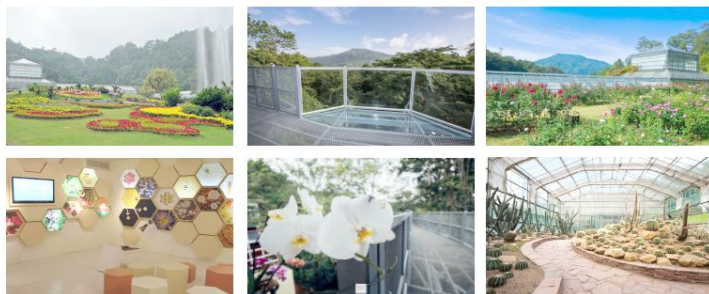
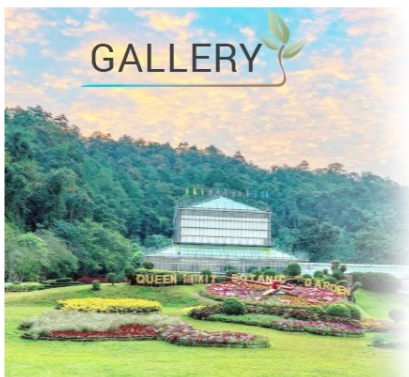
Canopy Walkway

Visitors can get a bird's-eye view of the garden from the tree tops and sections of the walkway will also have a glass floor.



UI-A-04-01 : Canopy walkway information Section

UI-A-05-01 : Gallery of the garden



UI-A-05-01 : Gallery of the garden

UI-A-05-02 : Full preview picture of the garden



UI-A-05-02 : Full preview picture of the garden

UI-B : Admin Page

Monday

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November 2016

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Time Slot : 08.30 - 09.00

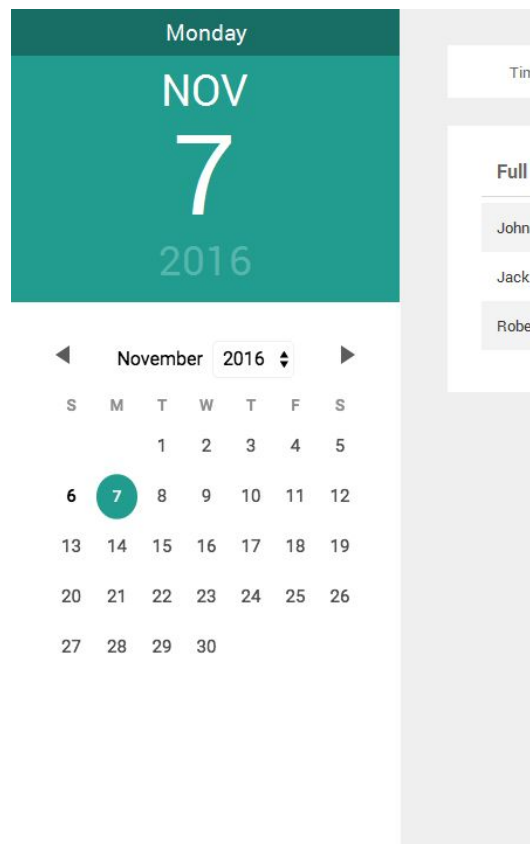
Visitors : 6 / 15

View

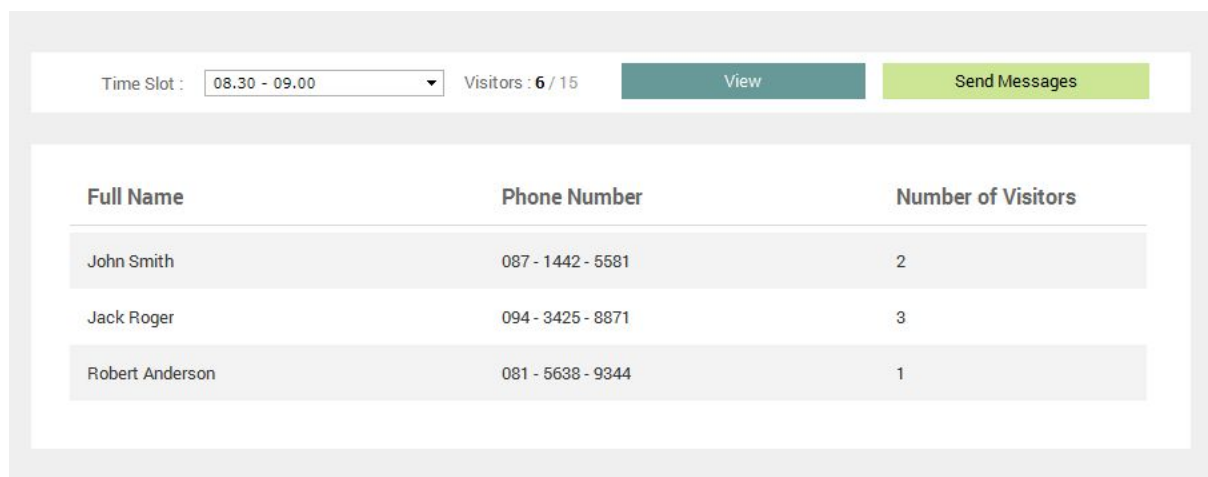
Send Messages

Full Name	Phone Number	Number of Visitors
John Smith	087 - 1442 - 5581	2
Jack Roger	094 - 3425 - 8871	3
Robert Anderson	081 - 5638 - 9344	1

UI-B-01 : View booked information



UI-B-01 : View booked information (Select a date)



UI-B-01 : View booked information (Select a time and display information)

UI-B-02 : Send Messages to customers

Full Name

Phone Number

Mon 7

November 2016

Time

11.00 - 11.30

To Phone Numbers

087-1442-5581

094-3425-8871

081-5638-9344

Send Messages

Send

UI-B-02 : Send Messages to customers