

ONLINE BOOKING SYSTEM

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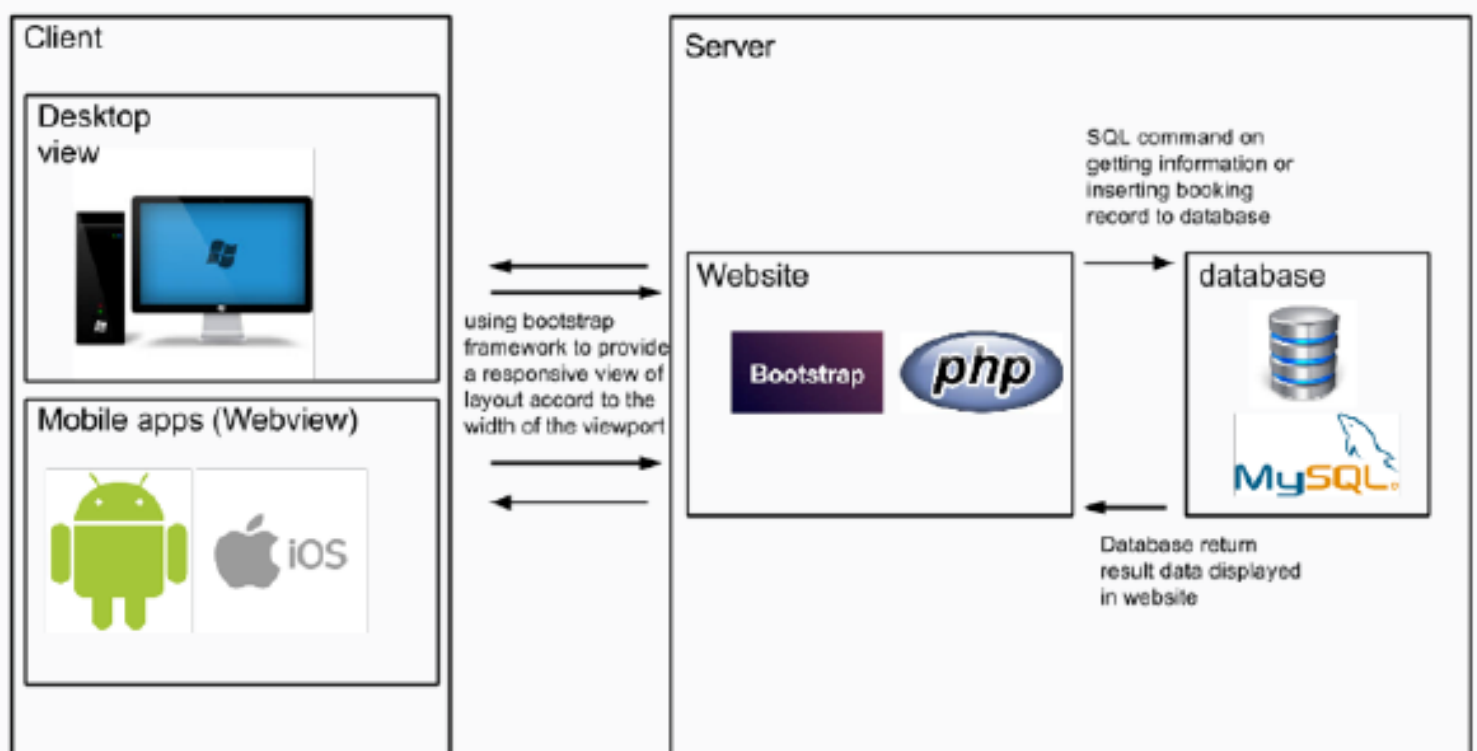
INTRODUCTION

We are developing a mobile application that allows people to find restaurants, view the details about restaurants, make table reservation, obtain e-tickets for queuing-up and receive recommendations on suitable restaurants. Our aim is to provide a better dining out experience for people in Hong Kong.

OBJECTIVES

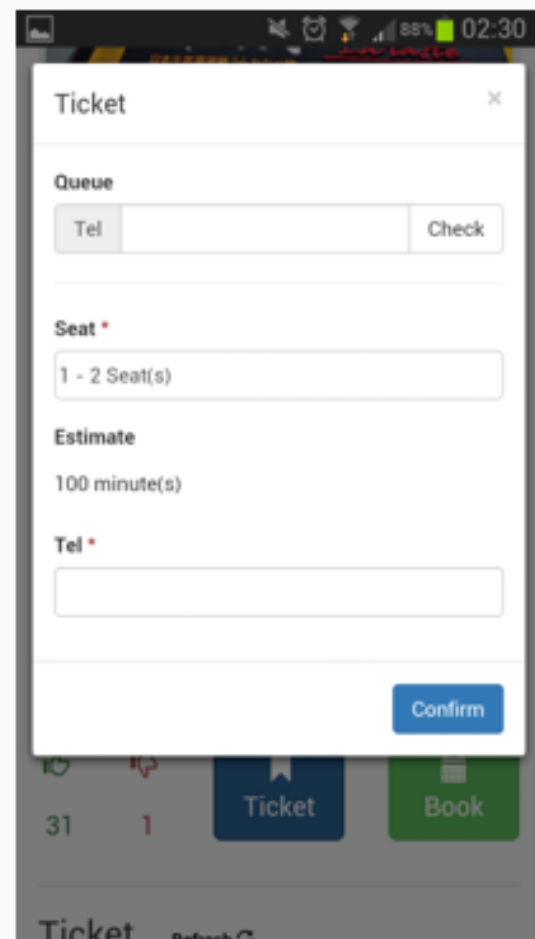
1. Develop an online system that stores information about restaurants in Hong Kong in detail.
2. Provide a real-time booking function for users to reserve tables in specified restaurants through the mobile application and also to check their queueing status through the application.
3. Design a restaurant recommendation function for users after choosing a restaurant.

DESIGN



ONLINE ELECTRONIC TICKET

In 'Restaurant Detail' page, users can click 'Ticket' button to obtain an electronic ticket for queueing. A pop-up form will be shown. To obtain a ticket, users are required to select number of seats in 'Seat', enter their telephone numbers in text box 'Tel', and then select 'Confirm' button. To check the queueing status, users need to enter their telephone number in the text box under 'Queue' and then select 'Check' button.



RECOMMENDATION FUNCTION

1. Recommendation by table booking pattern

From the booking record, we assume that different telephone numbers representing different people. We can discover booking pattern from the record.

For example, in the booking record of restaurant R1, we find that a number of people booked R1 will book restaurant R2 in other day. We can recommend restaurant R2 to the user.

2. Recommendation by time

From the booking record, we have date and time record. We assume that within a range of time slot, user booked the restaurant for different meal (breakfast, lunch, dinner). So by gathering all the booking record, we can recommend restaurant according to time.

For example, most of the booking record in R1 is at evening and night (18:00-22:00), we can assume that most of the people will choose R1 for dinner. We can recommend R1 to user for dinner purpose.

CONCLUSIONS

In this project we have developed a restaurant database, to provide a real-time booking function for reserving table in restaurants, to provide a real-time queueing function for obtaining electronic tickets, and to designed a recommendation function based on data mining techniques. We hope that are system can enhance users' dining experience.