



Medical Booking System

03/10/2018

Describe the Project

Medical booking system enables clients to book for a doctor's appointment. Without the booking system, the clients who want to see the doctor had to call the clinic to book for the doctor's appointment. And, this may cause a lot of waiting time to the clinic staff to answer the phone. This website reduce the effort of calling the clinic and book for the doctor's appointment. And, this can also be sometimes difficult for staff as well because clinic staffs have to tell the client what available dates and time are vocally. Thus, this can be confusing for both clients and clinic staffs. But, if the clients use the website to book for the doctor's appointment, the clients can immediately see the available dates and time. Once the booking process is finished, the booking confirmation email is automatically sent to the client as a reminder of date, time and location of the clinic. Hence, using website is a lot convenient than calling the clinic to book for the doctor's appointment. Furthermore, clinic can manage the reservation process easily because if the clients book for the appointments, then these appointments are added to the database automatically. Also, another strength of using the website is the client can download payment receipt or prescription on the website. This is crucial part of the website because if the client claim for the medical insurance receipt is needed and the client needs a prescription to get right tablet for the disease. Moreover, the clients can register their account. This is convenient for the clients as well because the clients can see past history of visiting the clinic. This is also convenient for the clinics as well because the clinic can manage the client detail very well. Furthermore, medical booking system shows the nearest clinic around your area. And, nearest located clinic can be chosen upon booking process.

Describe Use Cases

The main purpose of this website is to give opportunity for the clients who need medical assistant can book for a doctor's appointment. To access the system, clients should register account first, in case of losing password, the clients can look for password again. After registration process is finished, users can log in to the website and they can book an appointment, they need to fill in their personal information at the first time and they are able to edit these information when they check their personal details. We assume that there are various locations of hospitals, so clients can choose the specific location of the hospital on the map. For example, they can select Brisbane CBD. Then, the closest hospital to the Brisbane CBD will be shown on the map. Also, clients can view date and time available for doctor's appointment which is displayed on the calendar and they choose a specific date. After the client has finished booking for an appointment, email confirmation which contains booking details is sent to show the client as a reminder of the booking. After meeting with doctors, the clients are able to check their historical booking detail and these information will be shown in the web page.

Use Case 1

User: Mike

Description: Mike is a student and he has a bad headache and he wants to find a doctor and book an appointment with the doctor

Steps: 1. Sign up a new account and sign in with this account.

2. Click the booking button and jump to the booking page

3. Filling the booking form and select the date and location he wants

4. Send the booking form to the hospital.

Use Case 2

User: John

Description: John is a user in this medical system and he wants to find out the doctor's detail of his next booking

Steps: 1. Sign in with his account

2. Click the 'Doc Contact Detail' button in the dashboard and jump to the 'Doc Contact Detail' page.

3. Find the doctor's detail and he can search the doctor by doctor's name or the hospital the doctor works.

Use Case 3

User: Linda

Description: Linda is a user in this medical system and she wants to view her booking history

Steps: 1. Sign in with her account

2. Click the 'History' button in the dashboard and jump to the 'History' page.

3. View all booking history

Use Case 4

User: James

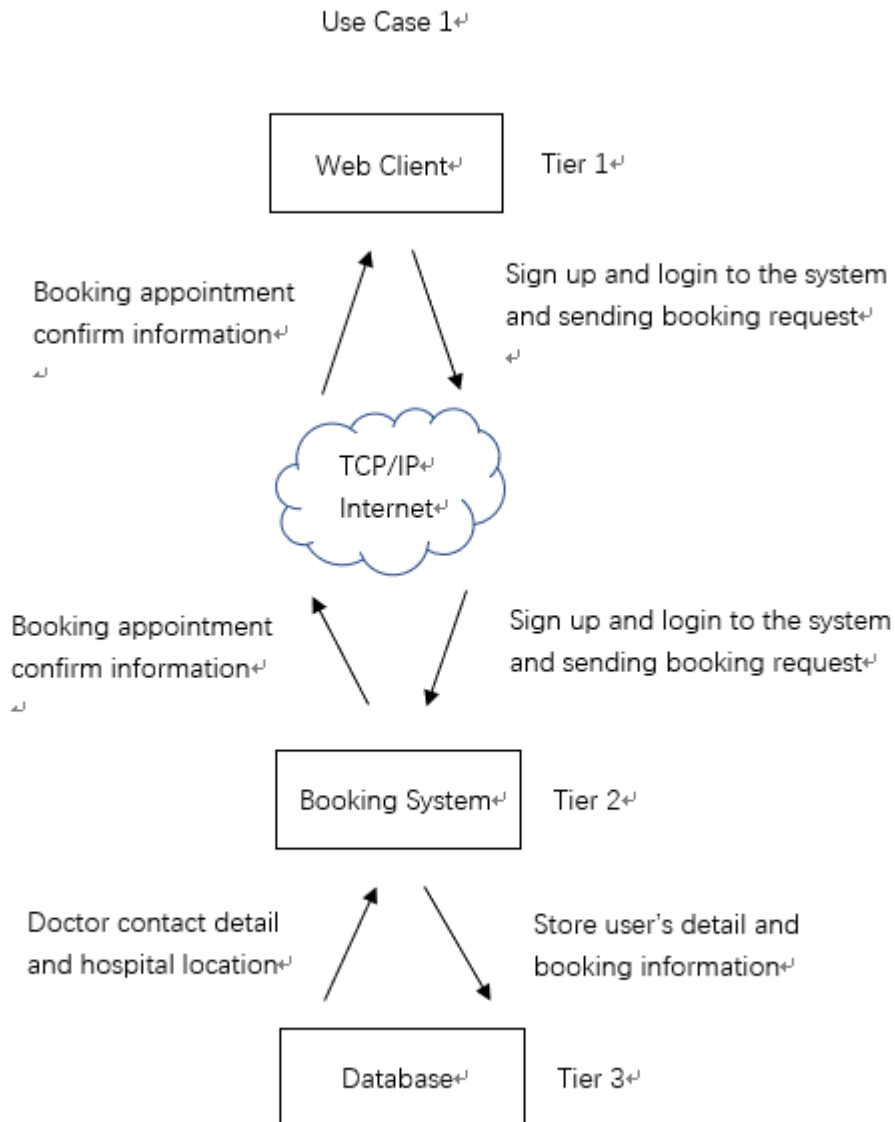
Description: James is a user in this medical system and he wants to change his phone number in this system

Steps: 1. Sign in with his account

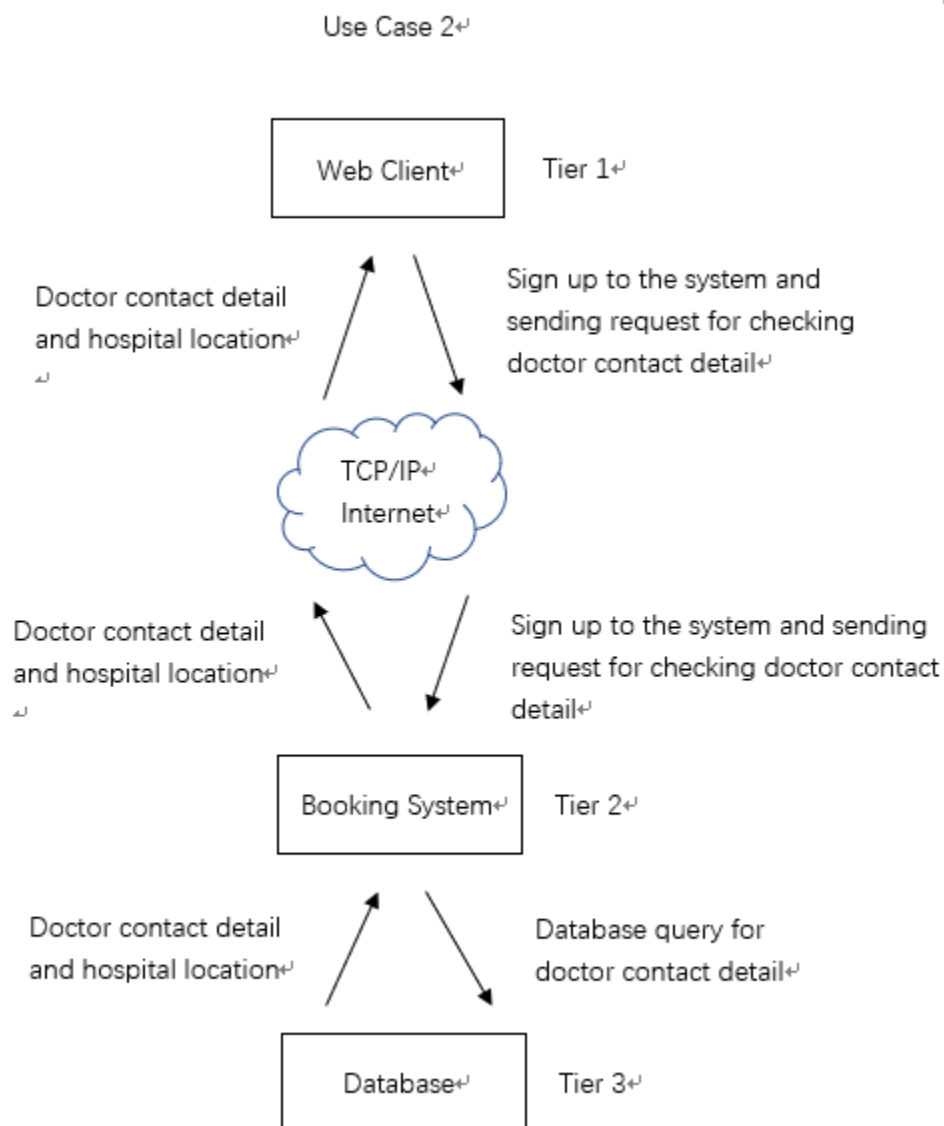
2. Click the 'Personal Detail" button in the dashboard and jump to the 'Personal Detail" page.

3. Click 'Edit Details' link to update the phone number.

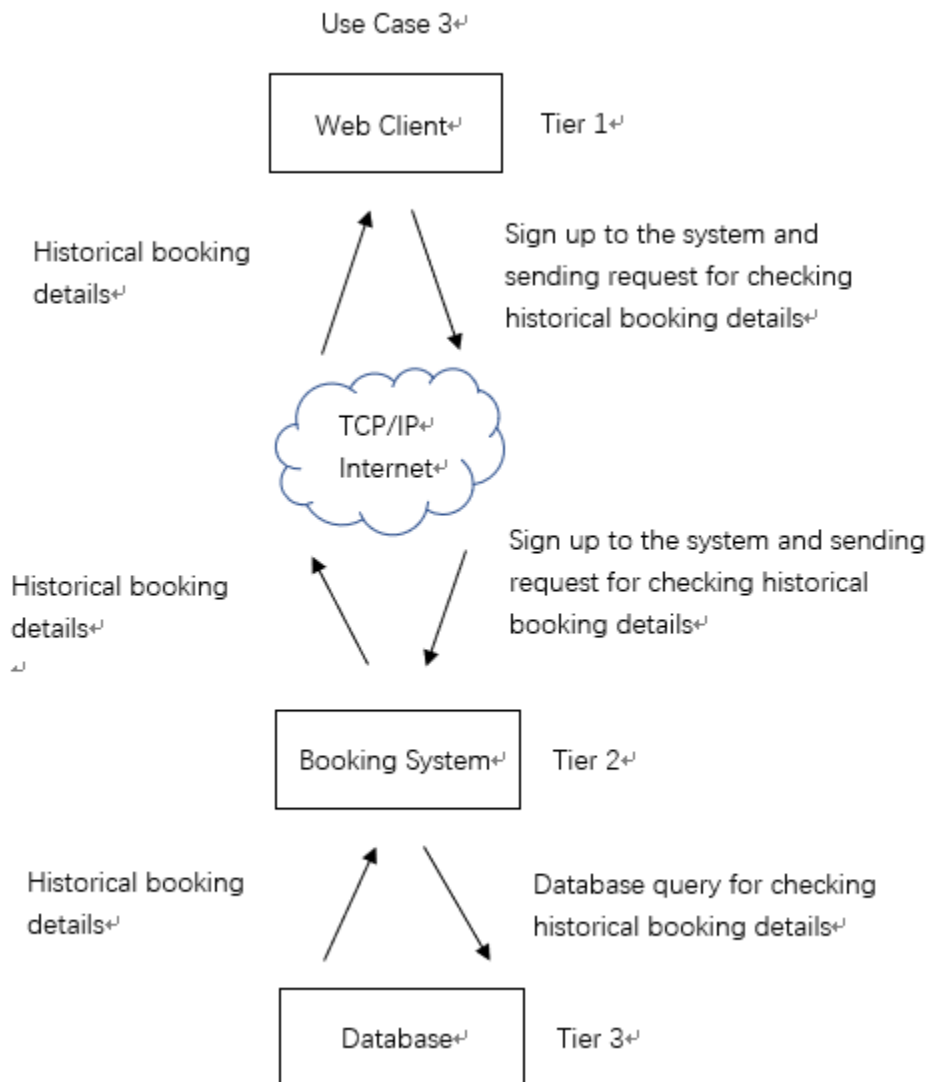
Describe the Communication Topology of the System



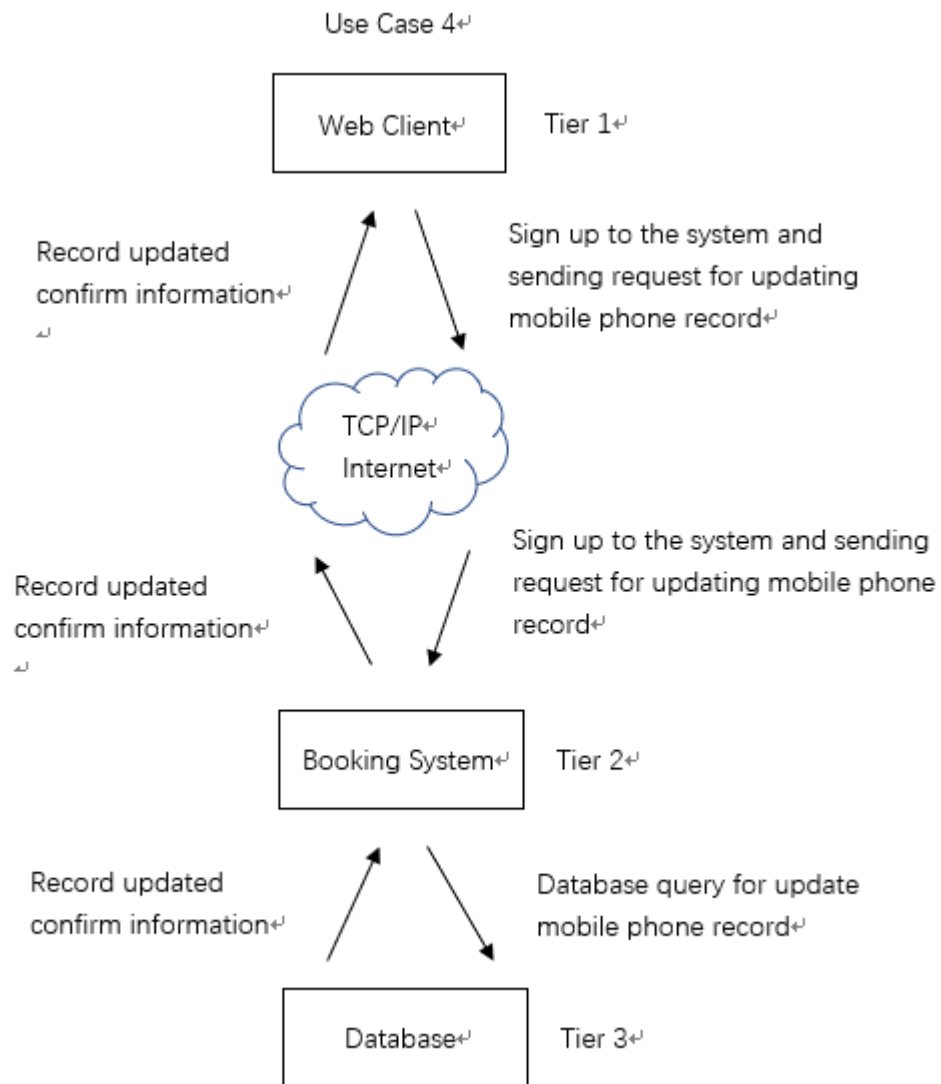
In the use case 1, sign up/login and booking request are sent to the medical booking system and the system will store user's account detail and booking information to the database and when the booking request is approved the booking system will query the doctor contact detail and hospital location from the database and sent it back to the web client, the booking information will shown in the web page.



In use case 2, doctor contact detail checking requests are sent to the medical booking system and the system will query doctor contact information from the database and send these contact details back to the web client and these information will shown in the web page.



In the use case 3, historical booking details checking requests are sent to the medical booking system and the system will query historical booking information from the database and send these historical booking back to the web client and these information will shown in the web page.



In the use case 4, update personal details requests are sent to the medical booking system and the system will query edit corresponding personal details from the database and confirm information will send back to the web client once change is made.

Design Mock-up

Reference for background : the background for our mockup is from
<https://www.freepik.com/index.php?goto=74&idfoto=1623030&term=medical>

Mock-up:

1. Main page



This is the homepage of our webpage, in this page user can login to the system if they already have the account or register to the system. At the bottom of the page there are some links of contact detail for our group, the user can contact us by clicking these links.

2. Login page and register page



The screenshot shows a web browser window with the title 'A Web Page'. The address bar contains 'http://'. The main content area has a light blue background with a grid pattern and a white line graph. The text 'Login to the system' is displayed in red. Below this, there is an orange-bordered box containing a login form with the following elements:

- A text input field labeled 'UserName'.
- A text input field labeled 'Password'.
- A 'Login' button.
- A link labeled 'Forget password?' with an exclamation mark icon.
- A link labeled 'Back to home page' with a home icon.

On the right side of the page, the word 'medical' is written in a large, white, sans-serif font, with 'VECTOR BACKGROUND' in smaller text below it. At the bottom right, there is a section labeled 'Found us on:' followed by icons for Twitter, Google+, and Facebook.

This is the login page for our system, user just need to type in their username and password to login to the system

A Web Page

http://

Register to the system

UserName

Password

Register

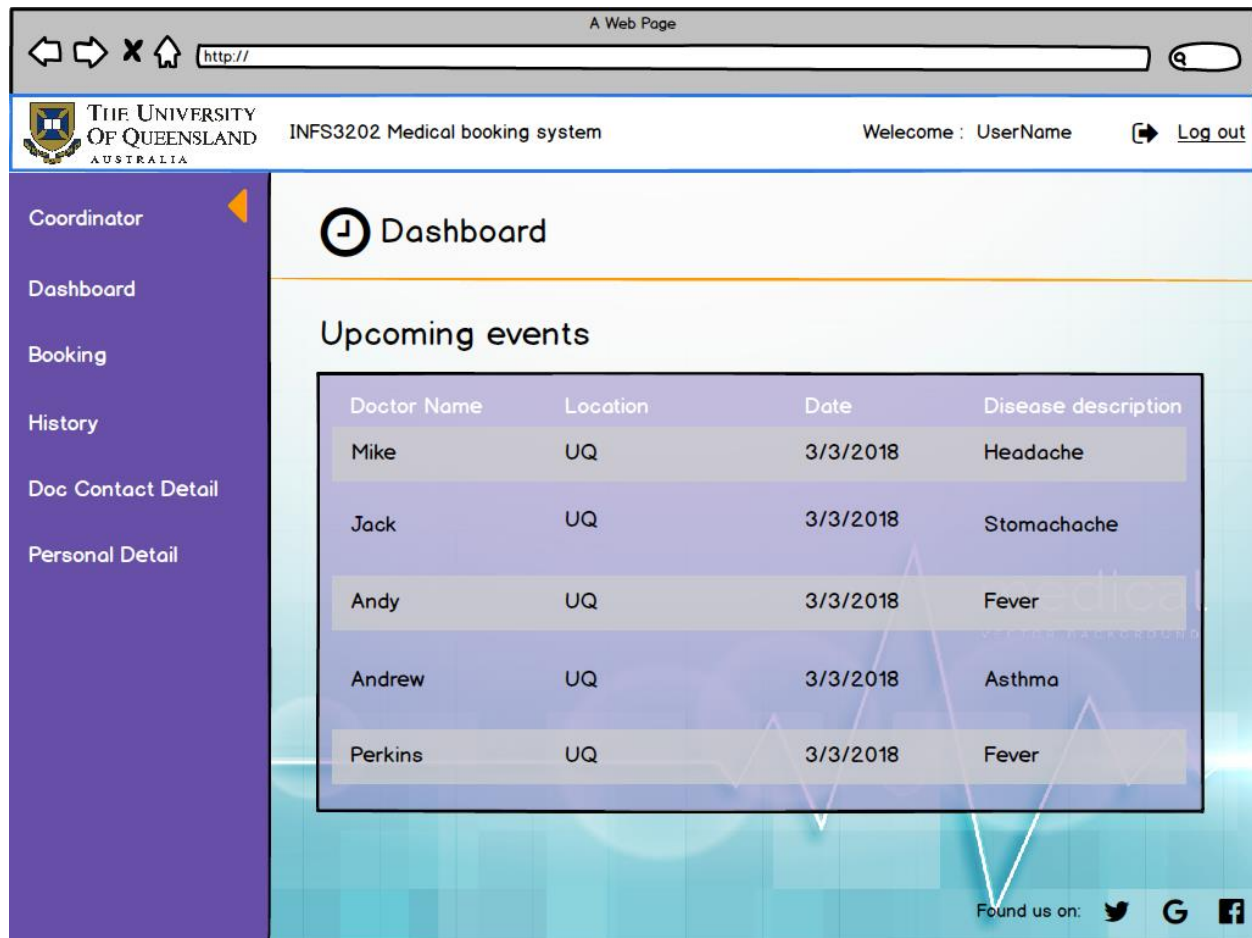
[Back to home page](#)

medical
VECTOR BACKGROUND

Found us on:

The register page is similar as the login page and user need to type in their unique user name and the password to register to the system when they using the system for the first time.

3. Dashboard



Doctor Name	Location	Date	Disease description
Mike	UQ	3/3/2018	Headache
Jack	UQ	3/3/2018	Stomachache
Andy	UQ	3/3/2018	Fever
Andrew	UQ	3/3/2018	Asthma
Perkins	UQ	3/3/2018	Fever

This is the dashboard for our system after user login to it, on this page user can browsing upcoming events (their upcoming booking for medical assistance), and they can browse other pages by clicking links on the left menu of each page

4. Booking page

A Web Page

http://

THE UNIVERSITY OF QUEENSLAND AUSTRALIA

INFS3202 Medical booking system

Welcome : UserName

Log out

Coordinator

Dashboard

Booking

History

Doc Contact Detail

Personal Detail

Online Booking

First Name:

Last Name:

Date: [Search a day](#)

Location: [Find a hospital near you](#)

Disease Description


medical
VECTOR BACKGROUND

Found us on: [Twitter](#) [Google+](#) [Facebook](#)

Booking page allows user to book medical assistance online, they need to type in their first name and last name if they didn't enter it on the personal detail page, otherwise these places will automatically fill in, and they need to choose the date for medical assistance, they can search a day on the calendar by clicking the link beside, as shown below: x

A Web Page

http://

 THE UNIVERSITY OF QUEENSLAND AUSTRALIA

INFS3202 Medical booking system

Welcome : UserName [Log out](#)

Coordinator

Dashboard

Booking

History

Doc Contact Detail

Personal Detail

Online Booking

First Name:

Last Name:

Date:

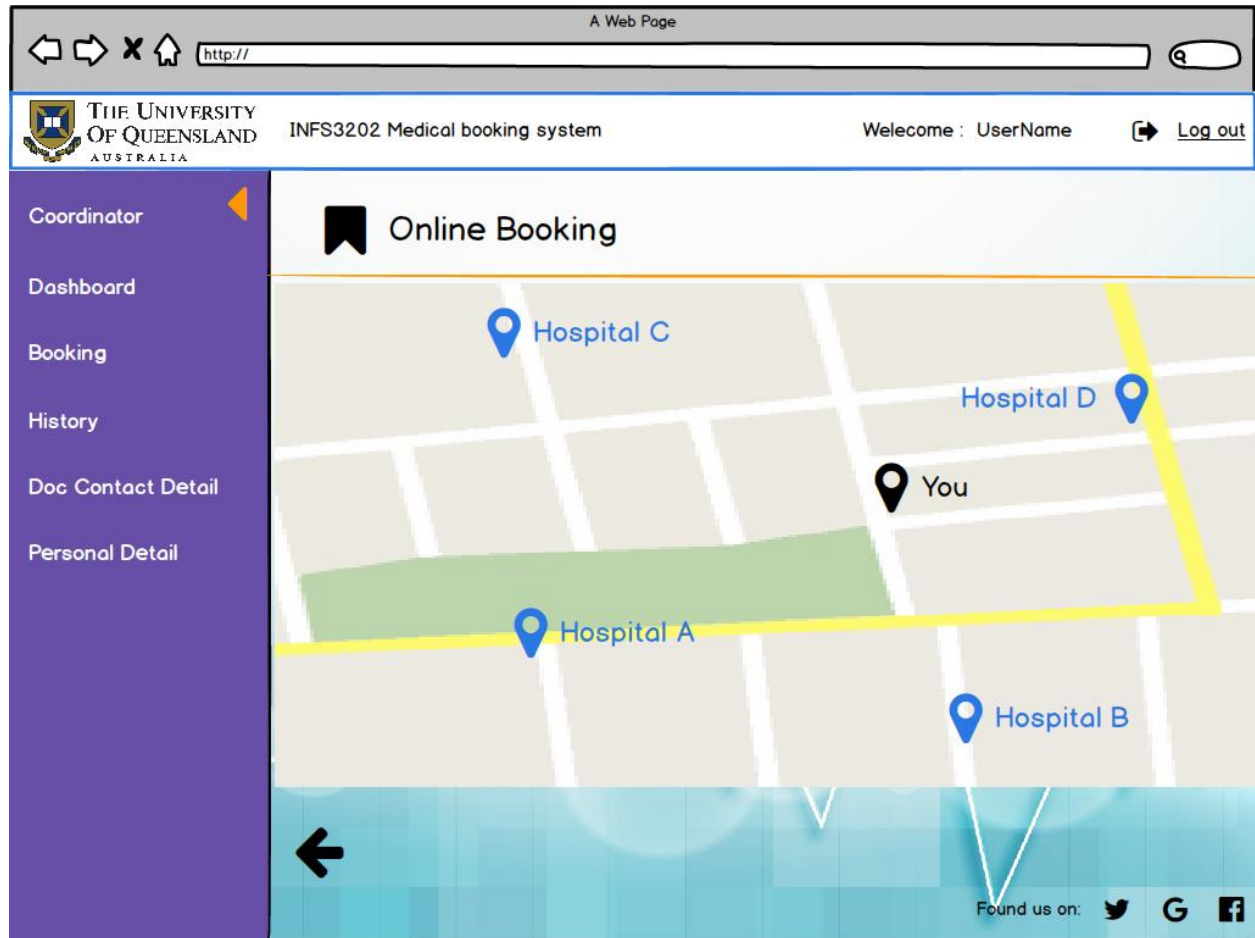
Location:

Disease Description

MARCH 2018						
S	M	T	W	T	F	S
25	26	27	28	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
	2	3	4	5	6	7

Found us on: [Twitter](#) [Google](#) [Facebook](#)

And they can search the location of hospital as well to find the nearby hospital, as shown below:



The location of hospital where near the user will be shown in the webpage using map API so that user can find the hospital where they want to go.

5. History page

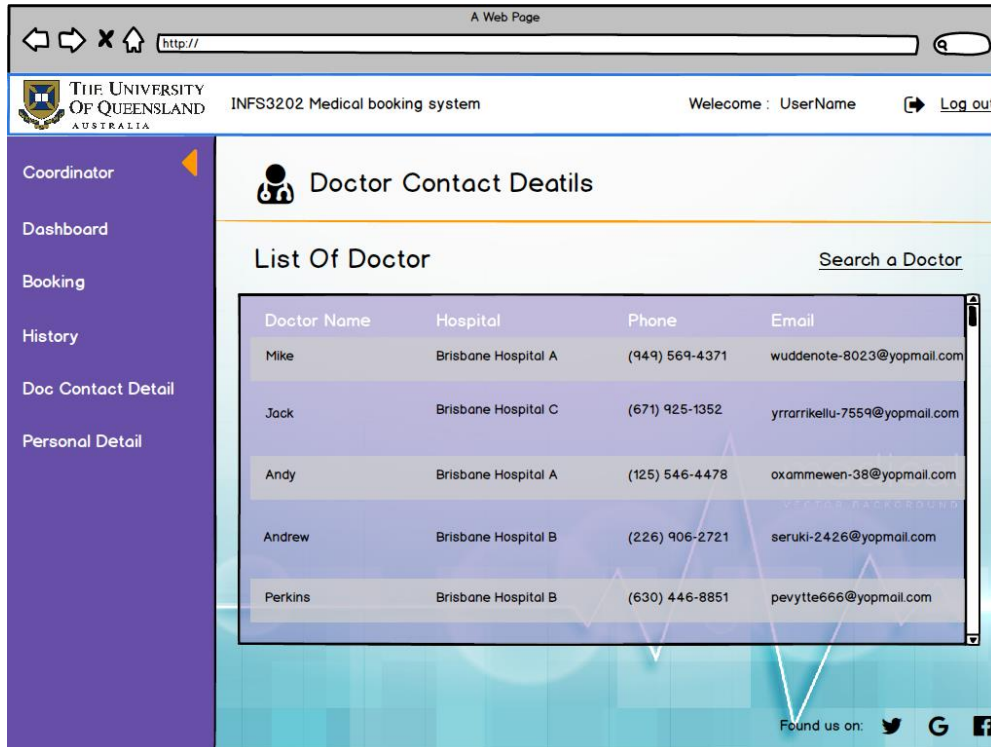
The screenshot displays a web browser window titled 'A Web Page'. The address bar shows 'http://'. The page header includes the University of Queensland Australia logo, the text 'INFS3202 Medical booking system', and a welcome message 'Welcome : UserName' with a 'Log out' link. A purple sidebar on the left contains navigation links: Coordinator, Dashboard, Booking, History, Doc Contact Detail, and Personal Detail. The main content area is titled 'History' and contains a table of booking events.

Doctor Name	Location	Date	Disease description
Mike	UQ	1/3/2018	Headache
Jack	UQ	1/3/2018	Stomachache
Andy	UQ	1/3/2018	Fever
Andrew	UQ	1/3/2018	Asthma
Perkins	UQ	1/3/2018	Fever

Found us on:

On this page user can browsing their historical booking event

5.Doctor contact detail page




The screenshot displays a web application interface for the 'INF33202 Medical booking system'. The header includes the University of Queensland logo, the system name, a welcome message for 'UserName', and a 'Log out' link. A left sidebar contains navigation links: Coordinator, Dashboard, Booking, History, Doc Contact Detail (selected), and Personal Detail. The main content area is titled 'Doctor Contact Deatils' (sic) and features a 'List Of Doctor' section. A search bar labeled 'Search a Doctor' is positioned above a table of doctor information. The table lists six doctors: Mike, Jack, Andy, Andrew, and Perkins, each associated with a specific Brisbane hospital and contact details. Social media links for Twitter, Google+, and Facebook are located at the bottom right.

Doctor Name	Hospital	Phone	Email
Mike	Brisbane Hospital A	(949) 569-4371	wuddenote-8023@yopmail.com
Jack	Brisbane Hospital C	(671) 925-1352	yrrarrikellu-7559@yopmail.com
Andy	Brisbane Hospital A	(125) 546-4478	oxammewen-38@yopmail.com
Andrew	Brisbane Hospital B	(226) 906-2721	seruki-2426@yopmail.com
Perkins	Brisbane Hospital B	(630) 446-8851	pevytte666@yopmail.com

On this page user can browsing the list of doctor recorded on the system and search the information of a particular doctor, as shown below:

A Web Page

http://

 THE UNIVERSITY OF QUEENSLAND AUSTRALIA

INFS3202 Medical booking system

Welcome : UserName [Log out](#)

Coordinator


Dashboard

Booking

History

Doc Contact Detail




Personal Detail

 Search a Doctor

Search by Hospital

Search by Name

Doctor Name	Hospital	Phone	Email
Mike	Brisbane Hospital A	(949) 569-4371	wuddenote-8023@yopmail.com
Jack	Brisbane Hospital C	(671) 925-1352	yrrarrikellu-7559@yopmail.com
Andy	Brisbane Hospital A	(125) 546-4478	oxammewen-38@yopmail.com
Andrew	Brisbane Hospital B	(226) 906-2721	seruki-2426@yopmail.com
Perkins	Brisbane Hospital B	(630) 446-8851	pevytte666@yopmail.com

Found us on:   

This is the mock-up for searching page, for example, if the user type in a particular name of the hospital and it will show the list of doctor who work on this hospital, as shown below

A Web Page

http://

THE UNIVERSITY OF QUEENSLAND AUSTRALIA

INFS3202 Medical booking system

Welcome : UserName

Log out

Coordinator

Dashboard

Booking

History

Doc Contact Detail

Personal Detail

Search a Doctor

Search by Hospital

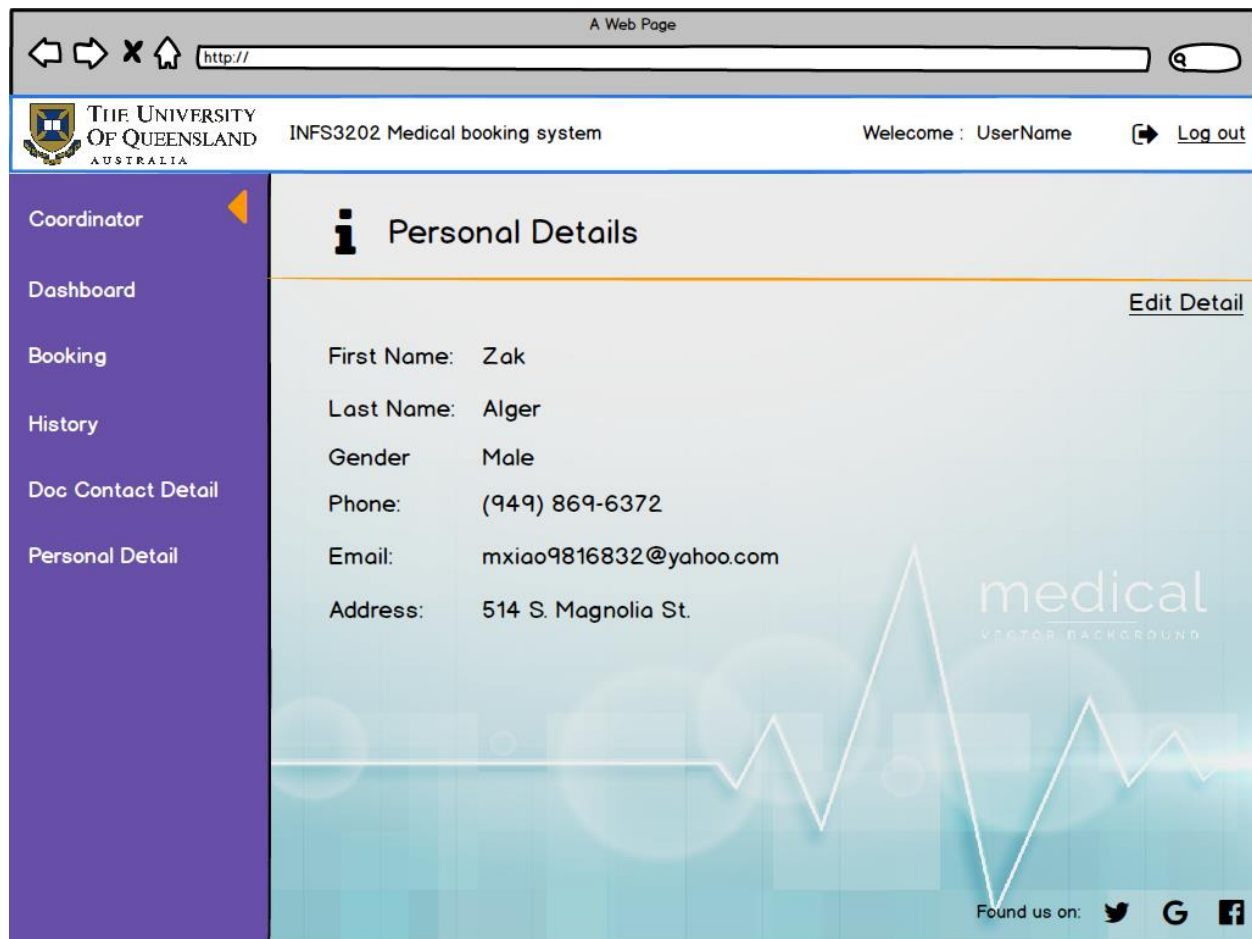
Search by Name

Doctor Name	Hospital	Phone	Email
Mike	Brisbane Hospital A	(949) 569-4371	wuddenote-8023@yopmail.com
Andy	Brisbane Hospital A	(125) 546-4478	oxammewen-38@yopmail.com
Micheal	Brisbane Hospital A	(654) 124-9566	uadsmfdn-93@yopmail.com

Found us on:

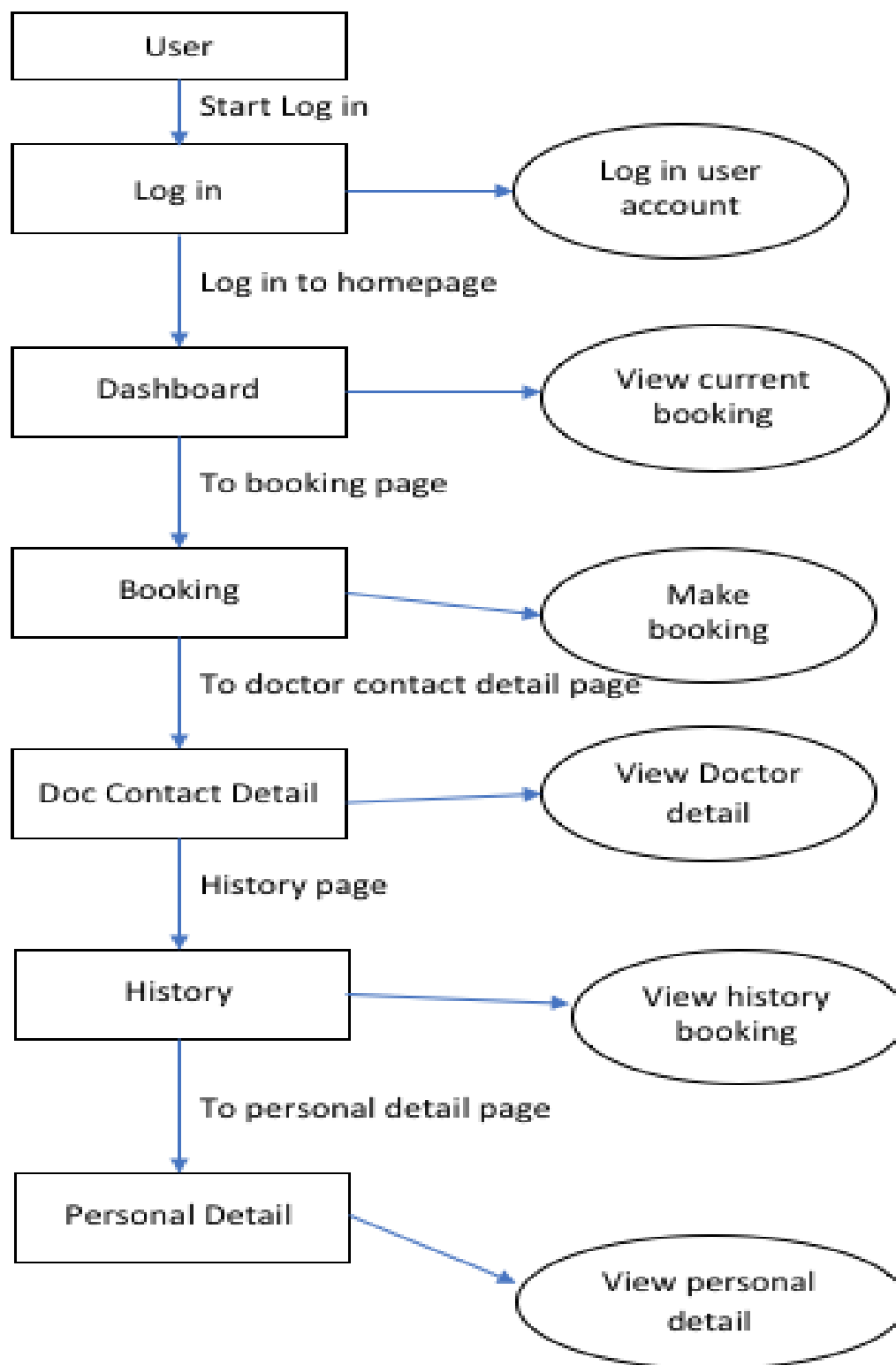
The list of doctor who work in the particular hospital will be shown in the search result and user can search the particular doctor by search the name

5. Personal detail page



On this page user can browse their personal information record on the system and they can edit their personal detail whenever they want.

Task Flow:



Site Map:

