



FIT5042 C Design Report (Major Tasks)

Holiday Booking Enterprise System

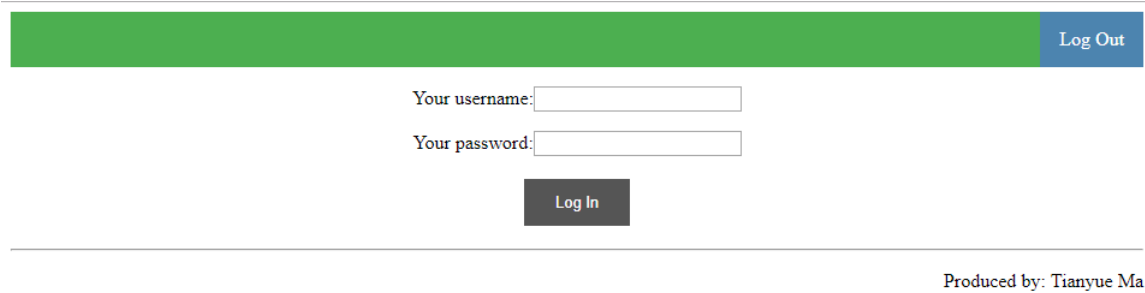
Tianyue Ma:28525795

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Overview

The holiday booking enterprise system is a booking transaction platform based on website. In this system, users are classified into two types: the public and the store. After login, the public can make a booking transaction and search transaction according to the transaction id, name and type. On the other hand, works can add, edit and delete any users. Works also can add, edit and delete transaction types.

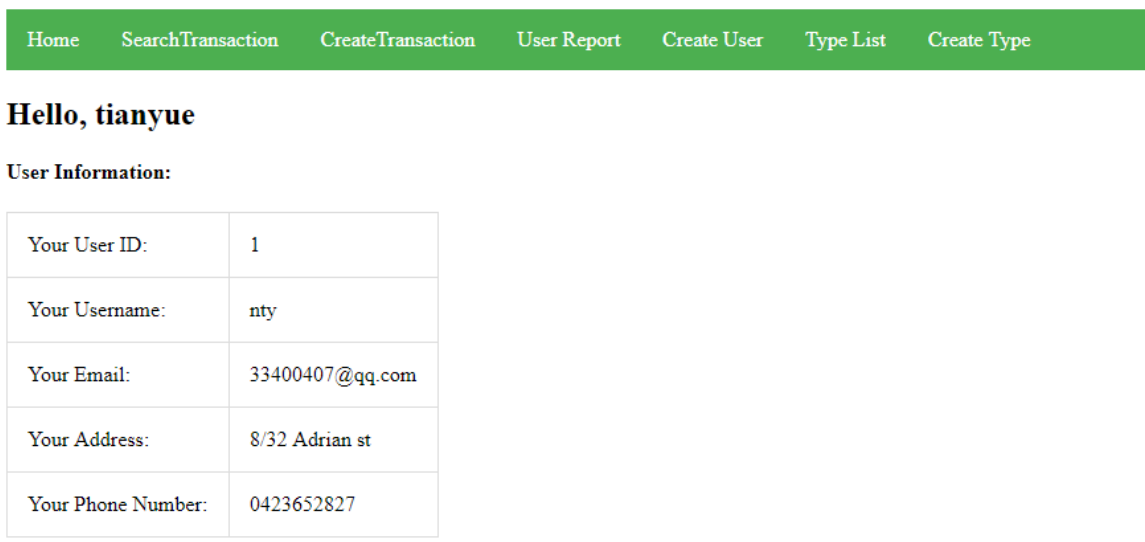


The screenshot shows a login interface. At the top, there is a green header bar with a 'Log Out' button on the right. Below the header, there are two input fields: 'Your username:' and 'Your password:'. A 'Log In' button is positioned below the password field. At the bottom right, it says 'Produced by: Tianyue Ma'.

Figure 1. Login Page

User stories

XXX holiday company wants to improve their booking system to replace their old booking process. The company need a new booking system bases on web platform to provide more convenient ways to make and cancel booking transactions. Considering the security problem, the register function is only for works. Users only can manipulate their transaction. Workers also can login system and create transaction. Workers also are able to manipulate other user's information and view transaction types.



The screenshot shows the home page of the system. At the top, there is a green navigation bar with links: Home, SearchTransaction, CreateTransaction, User Report, Create User, Type List, and Create Type. Below the navigation bar, it says 'Hello, tianyue'. Underneath, there is a section titled 'User Information:' followed by a table displaying user details.

Your User ID:	1
Your Username:	nty
Your Email:	33400407@qq.com
Your Address:	8/32 Adrian st
Your Phone Number:	0423652827

Figure 2. Home Page

Functional diagram

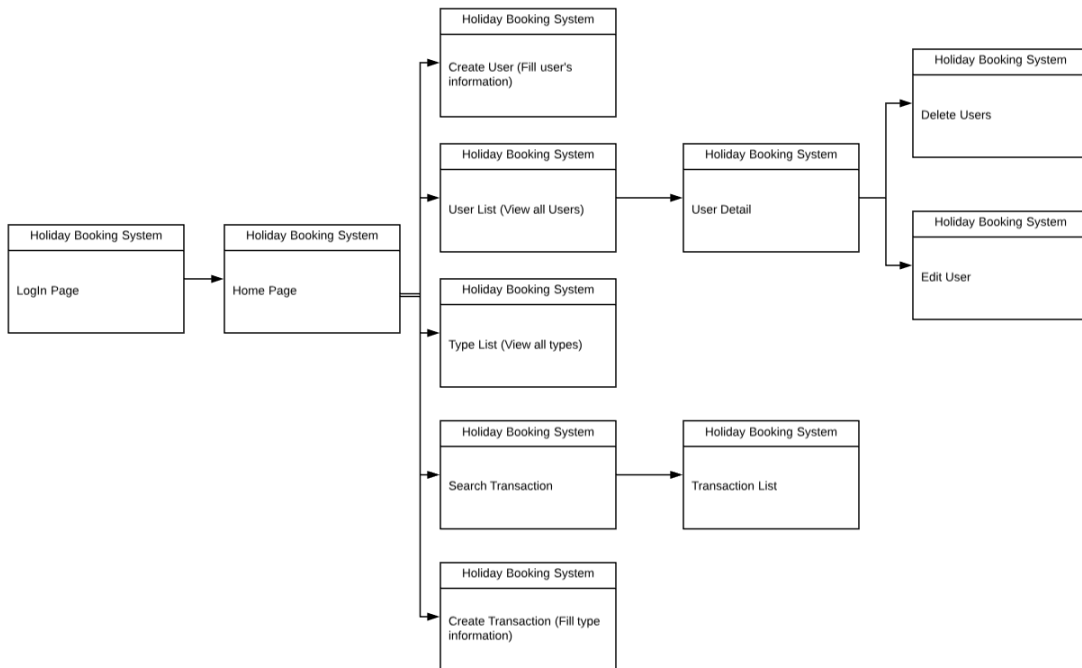


Figure 3. Functional diagram

Usability Design Review

According to the principle of the navigation in Flow Bohl blog, Visual cues should be used to guide users in to the direction which they want. The title on the html page can be changed according to users' location in website. On the other hand, the navigation bar is fixed on one position to ask users to find it easily, which follows the familiarity principle.

Validations functions are used in every input to follow the error prevention principle. When user input invalid values, the notification will be presented on the webpages, such as figure 4.

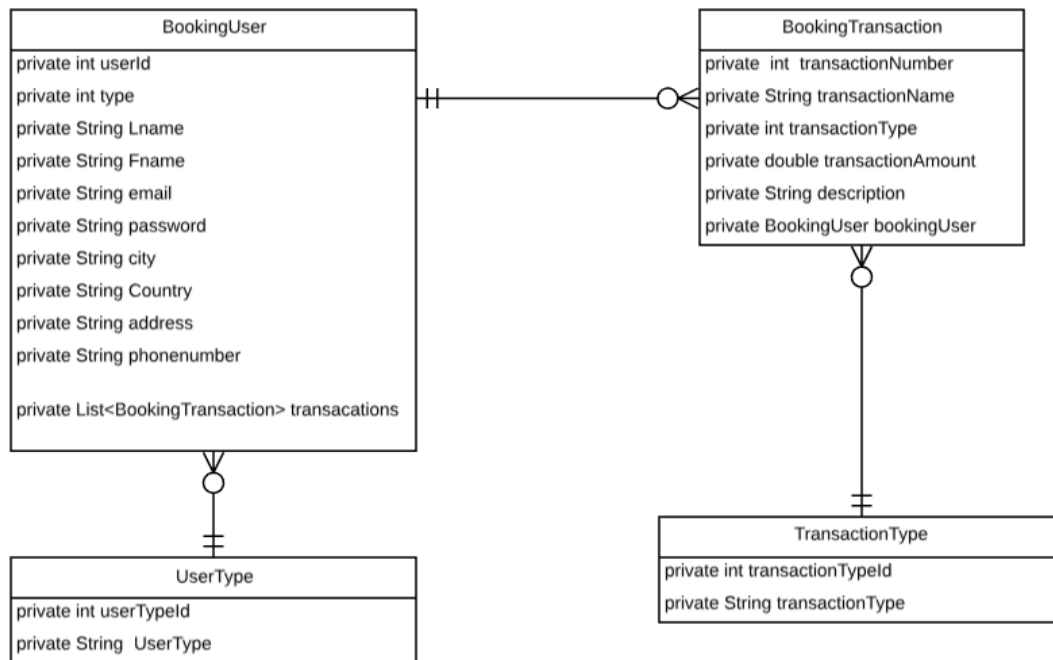
Please Fill in new User info:

User Name:	<input type="text"/>	This part can not be blank
First Name:	<input type="text"/>	This part can not be blank
Last Name:	<input type="text"/>	This part can not be blank
E-mail:	<input type="text"/>	This part can not be blank
Password:	<input type="text"/>	This part can not be blank
User Type:	<input type="text" value="Public"/>	
Country	<input type="text"/>	This part can not be blank
City	<input type="text"/>	This part can not be blank
Address:	<input type="text"/>	This part can not be blank
Phone Number:	<input type="text"/>	This part can not be blank

Figure 4. Validation Screenshot

[illegible]

Entity Relation Diagram



Data dictionary

1. BookingTransaction

Field Name	Data Type	Constraint	Description
TRANSACTIONNUMBER	int	PK	Transaction id
TRANSACTIONNAME	varchar	Not null	Transaction name
TRANSACTIONTYPE	int	FK	FK for transaction type
TRANSACTIONAMOUNT	double	Not null	Transaction amount
DESCRIPTION	varchar	Not null	Transaction description
BANKUSERID	int	FK	For BookingUser table

2. BookingUser

Field Name	Data Type	Constraint	Description
USERID	Int	PK	User id
USERNAME	Varchar	Not null	Login name
LNAME	Varchar	Not null	User last name
FNAME	Varchar	Not null	User first name
PASSWORD	Varchar	Not null	Login password
EMAIL	Varchar	Not null	User email
TYPE	Int	FK	FK for user type table
Country	Varchar	Not null	User country
City	Varchar	Not null	User city
Address	Varchar	Not null	User address
PHONENUMBER	Varchar	Not null	User phone number

3.TransactionType

Field Name	Data Type	Constraint	Description
TRANSACTIONTYPEID	Int	PK	Type id
TRANSACTIONTYPE	Varchar	Not null	Type description

4.UserType

Field Name	Data Type	Constraint	Description
USERTYPEID	Int	PK	User type id
USERTYPE	Varchar	Not null	User type