# HotelRevolution2014s

Input, Output and Interface Design

# Input design

Our system performs **5 main tasks**:

- Record new reservations
- Search for an existent reservation
- Search for a guest that has been in the hotel
- Manage the checkout's billing process
- Calculate and analyse the revenue of the hotel over a specified period of time.

All the input required during this tasks will be carefully **validated**, in order to avoid system error and exception that may be not correctly handled by the sistem.

### **Record new reservations:**

- Check-in date
- Check-out date
- Rooms booked
- Guest's data:
  - Name (required)
  - Surname (required)
  - Passport ID (required)
  - Email address (required)
  - Phone number
  - Address
  - Other useful informations

### **Manage existent reservations:**

The system allows the user to find out all the informations about an existent reservation in two ways:

- By inserting the ID of the reservation
- By inserting name and surname of the guest who made the reservation

The system then allows the user to modify the reservations data: to perform this action it shows all the available data to the user, that can change them and submit again all the informations to the system, that updates the database.

### **Find out existent reservations:**

• ID of the reservation

#### OR

Name and surname of the guest who made the reservation

### **Modify existent reservations:**

Resend all the data given in output in the previous stage

### **Manage guest's data:**

The system allows the user to find out all the informations about a guest that has been in the hotel by inserting one of the following informations:

- Guest's First Name
- Guest's Family Name
- Guest's Passport No
- Guest's Email address

The system then allows the user to modify the guests data: to perform this action it shows all the available data to the user, that can change them and submit again all the informations.

### Find out guest's data:

- Guest's **First Name**, OR
- Guest's Family Name, OR
- Guest's Passport No, OR
- Guest's Email address, OR

### **Modify guest's data:**

Resend all the data given in output in the previous stage

### **Manage billing process:**

In order to simplify the billing process the system shows to any user that has the required credentials (i.e. a manager) a list of the reservations that expires in the current date. In this case there is **no input required**, because the only input needed is the current date, that can be retrieved autonomously by the system.

### **Show revenue:**

- Start date
- End date

The system will show the revenue only to users with the required credentials (i.e. a manager)

# Output design

Our system provides 4 main outputs:

- The ID of any new reservation performed
- A list of all the reservations that match the user's search
- A list of all the guests that match the user's search
- A list of the checkouts in the current day
- The **total revenue** over a selected period and it's graph day by day.

There are also a lot of messages that can be classified as **feedback**, more than output, so they will be ignored in the following analysis.

#### **New Reservation:**

- **Sum-up** of all the input previously inserted:
  - Gues'ts data
  - Rooms booked
  - Check-in and check-out dates
  - Price of the stay
- ID of the newly-made reservation

All the output is given **on screen** to the receptionist (the main user of the system), that will then tell the ID to the user **by phone**. If an email address is given, the system will send an **email** to the user, in order to confirm the reservation. Anyway, this output can be considered mainly **external**.

#### **Reservations Search:**

- List of all the reservations that match the search parameter, with some informations:
  - Reservation ID
  - Guest's name and surname
- On click, all the available data on the selected reservation:
  - Reservation ID
  - Name and surname of the guest
  - Check-in and Check-out date
  - Rooms booked
  - Price of the stay

All the output is given **on screen**, so it can be considered **internal**.

#### **Guests Search:**

- **List of all the guests** that match the search parameter, with some informations:
  - Guest's name and surname
  - Email address
- On click, all the available data on the selected guest:
  - Name and surname
  - Email address
  - Passport No
  - Phone, address, other useful informations

All the output is given on screen, so it can be considered internal.

#### **Checkouts:**

- List of all the checkouts that will be performed in the current day:
  - Guest's name and surname
  - Check-in date
  - Lenght of the stay
  - Room number
  - Reservation ID
  - Due

All the output is given **on screen**, so it can be considered **internal**. This output can be used by the manager to bill the client, but this operation happened outside the system, because it doesn't impelement a function to print out a precompiled bill (it can be a future improvement).

#### **Revenue:**

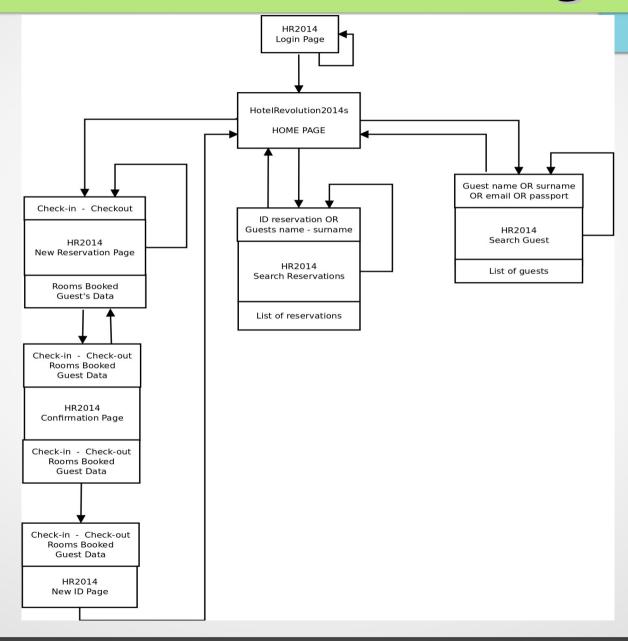
- The total revenue on the selected period
- A **graph** showing the total revenue day by day over the selected period.

All the output is given on screen, so it can be considered internal.

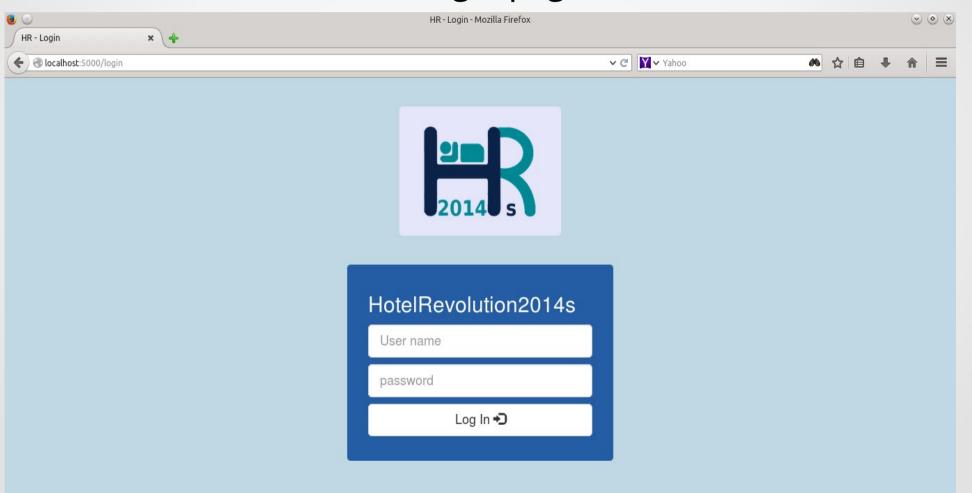
# Physical Output Requirements

	Distribution	Implementation Method
Confirm Reservation	Receptionist - Guest	Screen - Email - Phone
Revenue Graph	Manager	Screen - Multimedia
CheckOUT List	Manager	Screen
Reservation List	Manager	Screen
Guest List	Receptionist	Screen
Free Room List	Receptionist	Screen

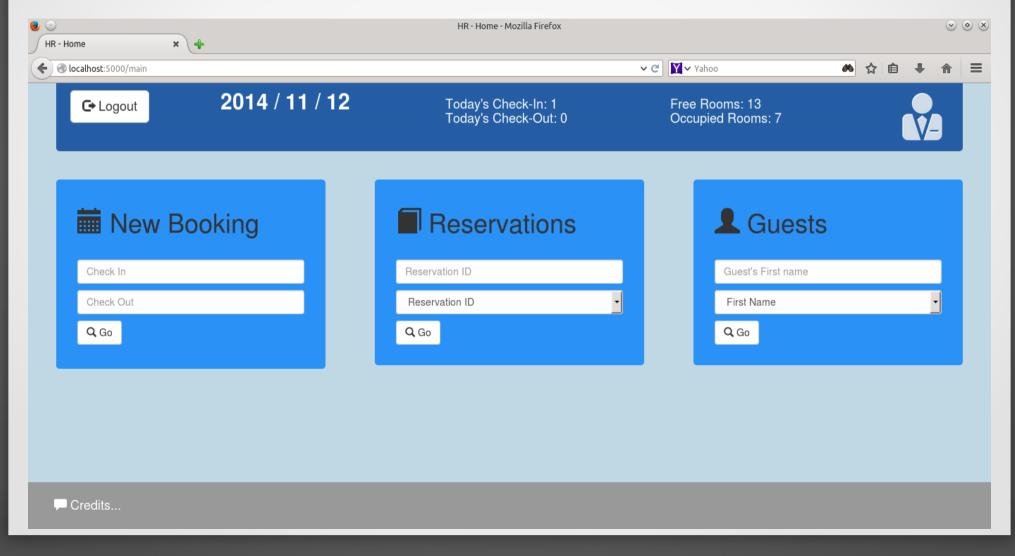
# State Transition Diagram



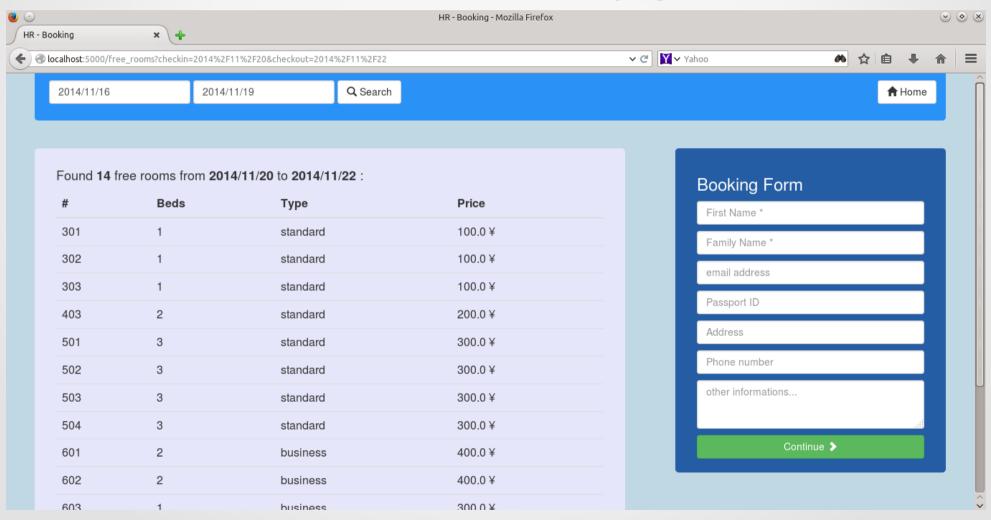
### Login page:



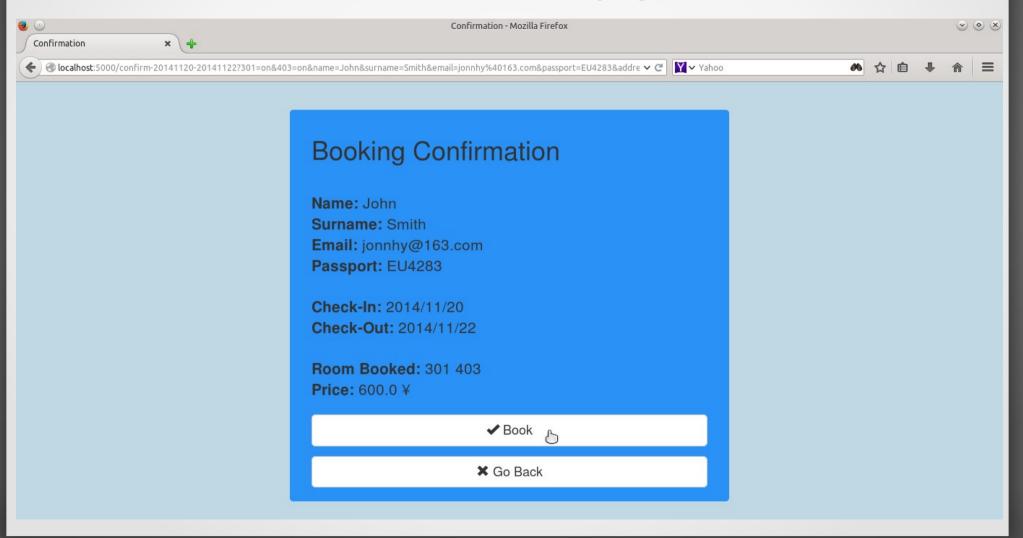
### Home page:



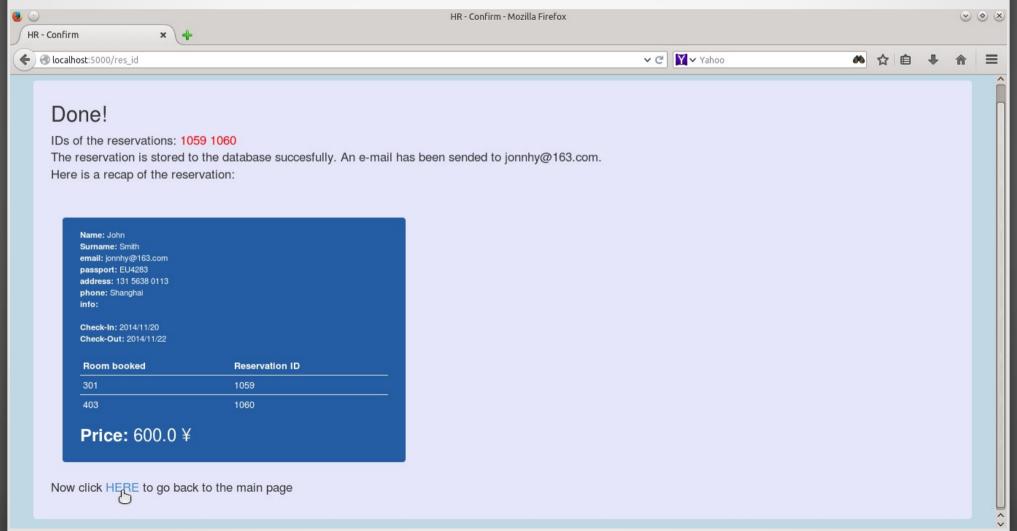
#### New Reservation page:



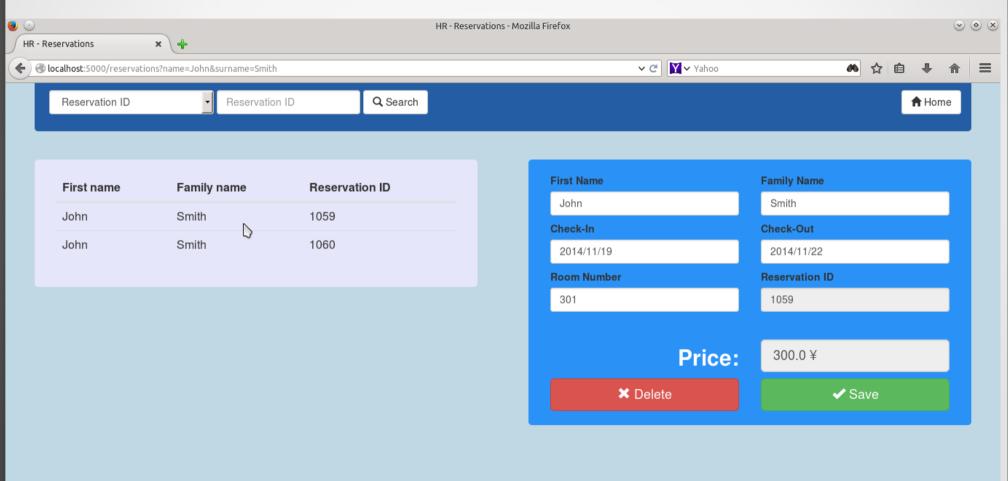
### **Confirmation page:**



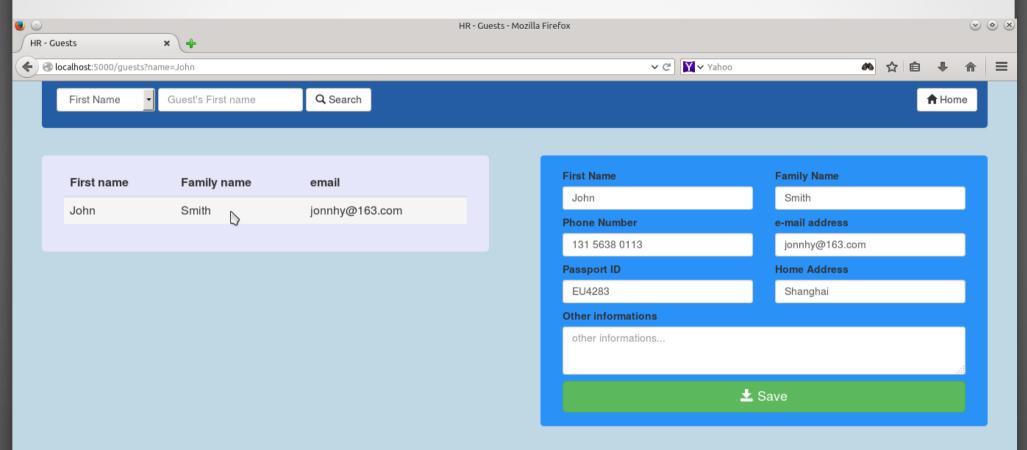
### **ID** Reservation page:



### Search Reservation page:



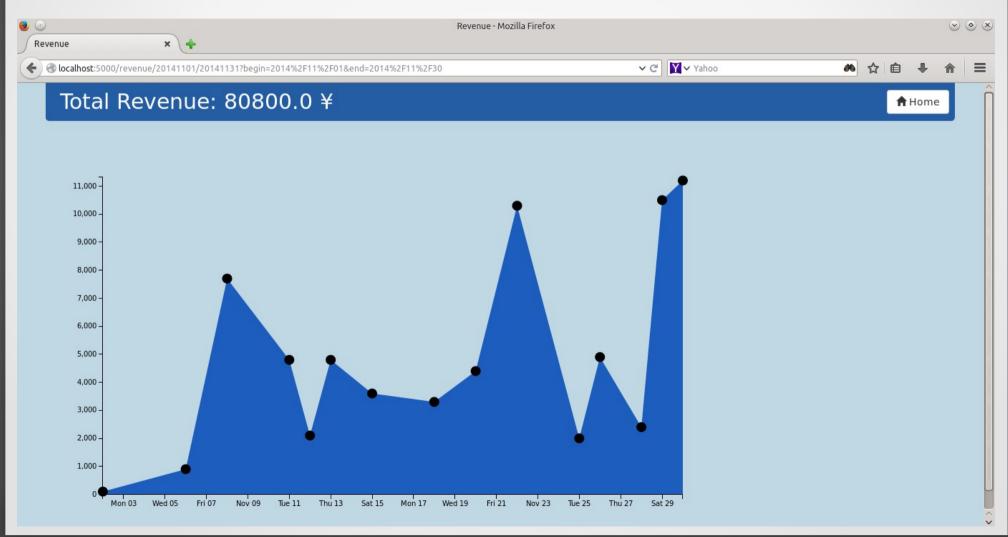
### Search Guest page:



### **Checkouts page:**



### Revenue page:

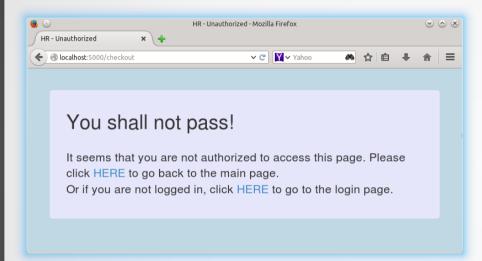


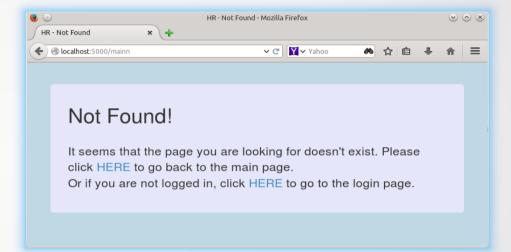
### **Examples of Error Messages:**

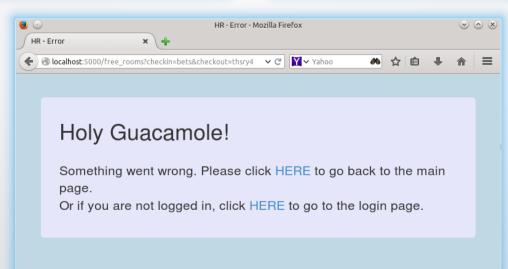




#### **Examples of Error Pages:**







### **Examples of Feedback:**

