

CSIT321 - Final Year Project

Multi-factor transaction authorisation based on QR code

User Manual for Website and Mobile Application

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Introduction

This user manual would be focused on documenting steps that help the user navigate around when using the CheckInn website and mobile application.

CheckInn Website

Our team makes use of Visual Studio Code which is an open-source platform to create the CheckInn website and a free webhost platform called infinityfree to host the website online. It was built to provide a seamless hotel booking service experience to the Hotel Customers.

To showcase this system from creating a website to booking a room from one of the Hotels shown on Check Inn, we need to create a Customer account from the Sign Up page. After creating an account, the customer chooses a particular hotel and room to stay in, making payment after the creation of the room booking.

The hotel operator in charge of that particular hotel that the Customer book from will be able to view the booking from Customer's history and Customer's Information. There is a hotel room generator for the Hotel Operator to generate the number of hotel rooms using Google QR Code API.

As for the System Administrator, its role is to create user accounts for System Administrator and Hotel Operator. They are also able to view user accounts and view user profiles to edit, suspend and delete user accounts/user profiles.

This is the login email and password for the infinityfree webhost platform:

<https://app.infinityfree.net>

Login email : aylchia001@gmail.com

Login password :!A1b2c3d4!

This is the website for System Administrator:

<https://checkinn.infinityfreeapp.com/finaladmin/login.php>

This is the website for the Hotel Operator and Customer

[https://checkinn.infinityfreeapp.com/newCheckInn\(2\)/login.php](https://checkinn.infinityfreeapp.com/newCheckInn(2)/login.php)

CheckInn Mobile Application(Expo Go)

Our team makes use of Expo Go which is an open-source platform to create our CheckInn mobile app. Expo go can be installed on any android device running on android 10.0 and above.

The latest version of Node.js must be installed before we run the following command in the command prompt which is run as administrator.

Command : `npm i -g expo-cli`

Once the installation is done, we can proceed to install Visual Studio Code in order to open the source code from the submitted zip folder.

Expo Go app which can be found in the play store must be installed in the android device.

Once the source code folder is open inside the Visual Studio Code, we can open a new terminal and run the following command to start our CheckInn mobile app. Once the command is run, open the Expo Go app in the android device and scan the QR code provided in the terminal or enter the URL manually.

Command: `npm start`

CheckInn Website Environment

The hardware and operating system details are required in order to know under what environment the CheckInn website and administrative website has been tested on and works. The operating system software for each of these devices used is listed below:

Device Name	LGPC - DESKTOP-JIJ7P0A		ASUS Gaming Laptop (FX503V)
Software Requirements			
Operating System	Windows 11	Windows 11 Home	Windows 10 Home
Hardware Requirements			
Processor	Intel(R) Core(TM) i5-8265U CPU @ 1.60GHz 1.80 GHz	Intel(R) Core(TM) i7-950H CPU @ 2.60GHz 2.59GHz	Intel Core i7 (7th Gen)
GPU	Intel(R) UHD Graphics 620	Intel(R) Graphics	NVIDIA Geforce GTX
Resolution	1920 x 1080	1920 x 1080	1920 x 1080
Network	Intel(R) Wireless-AC 9560 160MHz	Intel(R) Wireless-AC 9560 160MHz	Intel(R) Dual Band Wireless-AC 8265
CPU	Intel(R) Core(TM) i5-8265U CPU @ 1.60GHz	Intel(R) Core(TM) i7-950H CPU @ 2.60GHz	Intel(R) Core(TM) i7-7700HQ CPU @ 2.80GHz

CheckInn Mobile Application Environment

The hardware and operating system details are required in order to know under what environment the CheckInn Mobile Application has been tested on and works. The operating system software for each of these devices used is listed below:

Device Name	XiaoMi 10TPro
Software Requirements	
Operating System	Android 12 SKQ1.21
Hardware Requirements	
Processor	Qualcomm Snapdragon 865
GPU	Adreno 650
Resolution	1080 x 2400 pixels
Network	Wi-Fi AC, 4 GHz, 5 GHz
CPU	Octa-core (1x2.84 GHz Cortex-A77 & 3x2.42 GHz

	Cortex-A77 & 4x1.80 GHz Cortex-A55
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System Admin

Use Case #1 - **System Admin** **logins** into the **Website** to manage the customers and the hotel chain client.

Steps:

1. Go to System Admin Website
2. Enter the necessary details
3. Click on "Login" button

Use Case #2 - **System Admin** **logs out** from the **Website** to exit the system.

Steps:

1. Navigate to Home page
2. Click on "Logout" button

Use Case #3 - **System Admin** **creates a user account** in the **Website** to add a new user into the system.

Steps:

1. Go to System Admin Website
2. Enter the necessary details and click on "Login" button
3. Click on "Create User Account" button
4. Enters necessary details
5. Clicks on "Submit" button

Use Case #4 - **System Admin** **views all user accounts** in the **Website** to retrieve the user account details list.

Steps:

1. Go to System Admin Website
2. Enter the necessary details and click on "Login" button
3. Click on "All User Accounts" button

Use Case #5 - **System Admin** **updates user account** in the **Website** to edit the account information of a user.

Steps:

1. Go to System Admin Website
2. Enter the necessary details and click on "Login" button
3. Click on "All User Accounts" button
4. Clicks on "Edit" button next to the specific user
5. Edits the details
6. Clicks on "Submit" button

Use Case #6 - **System Admin** searches for a specific user account in the **Website** to retrieve the user account.

Steps:

1. Go to System Admin Website
2. Enter the necessary details and click on "Login" button
3. Click on "All User Accounts" button
4. Enters the name or email of user in the search bar
5. Click on "Search" button

Use Case #7 - **System Admin** deletes a user account in the **Website** to delete the user account.

Steps:

1. Go to System Admin Website
2. Enter the necessary details and click on "Login" button
3. Click on "All User Accounts" button
4. Click on "Delete" button next to the specific user

Use Case #8 - **System Admin** suspends a user account in the **Website** to delete the user account.

Steps:

1. Go to System Admin Website
2. Enter the necessary details and click on "Login" button
3. Click on "All User Accounts" button
4. Clicks on "Suspend" button next to the specific user
5. Click on "Inactive" button

Use Case #9 - **System Admin** re-activate a user account in the **Website** to delete the user account.

Steps:

1. Go to System Admin Website
2. Enter the necessary details and click on "Login" button
3. Click on "All User Accounts" button
4. Clicks on "Suspend" button next to the specific user
5. Click on "Active" button

Use Case #10 - **System Admin** views all user account profiles in the **Website** to retrieve data of all the user profiles.

Steps:

1. Go to System Admin Website
2. Enter the necessary details and click on "Login" button
3. Click on "View User Profiles" button

Use Case #11 - **System Admin** views a user account profile in the **Website** to retrieve specific data based on a specific user profile.

Steps:

1. Go to System Admin Website
2. Enter the necessary details and click on “Login” button
3. Click on “View User Profiles” button
4. Click on “View” button

Use Case #12 - **System Admin** searches for a specific user profile in the **Website** to retrieve the user account.

Steps:

6. Go to System Admin Website
7. Enter the necessary details and click on “Login” button
8. Click on “All User Accounts” button
9. Enters the name or email in the search bar
10. Clicks on “Search” button

Hotel Operator

Use Case #13 - **Hotel Operator** logs into the **Website** to access the system.

Steps:

1. Go to CheckInn Website
2. Click on the side panel button and open dashboard
3. Click on “Login” button
4. Enter the necessary details
5. Click on “Login” button

Use Case #14 - **Hotel Operator** logs out from the **Website** to exit the system.

Steps:

1. Go to CheckInn Website
2. Click on the side panel button and open dashboard
3. Click on “Logout” button

Use Case #15 - **Hotel Operator** view all Customers’ details from the **Website** to know who my customers are.

Steps:

1. Go to CheckInn Website
2. Click on the side panel button and open dashboard
3. Enter necessary details and click on “Login” button
4. Click on the side panel button and open dashboard

5. Click on “Customer Accounts” button

Use Case #16 - **Hotel Operator** view all Customers’ transactions from the **Website** to know my customer’s preferences.

Steps:

1. Go to CheckInn Website
2. Click on the side panel button and open dashboard
3. Enter necessary details and click on “Login” button
4. Click on the side panel button and open dashboard
5. Click on “Booking History” button

Use Case #17 - **Hotel Operator** add room from the **Website** so that the customer can view more available rooms.

Steps:

1. Go to CheckInn Website
2. Click on the side panel button and open dashboard
3. Enter necessary details and click on “Login” button
4. Click on “Add Room” button
5. Enter the necessary details
6. Click on “Add” button

Use Case #18 - **Hotel Operator** generate QR codes from the **Website** so that the customer can scan the QR codes to enter the hotel room.

Steps:

1. Go to CheckInn Website
2. Click on the side panel button and open dashboard
3. Enter necessary details and click on “Login” button
4. Click on the side panel button and open dashboard
5. Click on “QR Codes” button
6. Enter the number of rooms
7. Click on “Get QR” button of the specific room

Use Case #19 - **Hotel Operator** view the generated QR codes from the **Website** so that the hotel operator can print the QR codes to paste outside the hotel room.

Steps:

1. Go to CheckInn Website
2. Click on the side panel button and open dashboard

3. Enter necessary details and click on “Login” button
4. Click on the side panel button and open dashboard
5. Click on “QR Codes” button

Customer

Use Case #20 - **Customer** **logins** into the **Website** to access the system.

Steps:

1. Go to CheckInn Website
2. Click on the side panel button to open dashboard
3. Click on “Login” button
4. Enter the necessary details
5. Click on “Login” button

Use Case #21 - **Customer** **logs out** from the **Website** to exit the system.

Steps:

1. Go to CheckInn Website
2. Click on the side panel button and open dashboard
3. Click on “Logout” button

Use Case #22 - **Customer** **sign up** into the **Website** to access the system.

Steps:

1. Go to CheckInn Website
2. Click on the side panel button to open dashboard
3. Click on “Sign up” button
4. Enter the necessary details
5. Click on “Sign up” button

Use Case #23 - **Customer** **update their password** in the **Website** to edit the password.

Steps:

1. Go to CheckInn Website
2. Click on the side panel button to open dashboard
3. Enter necessary details and click on “Login” button
4. Click on the side panel button to open dashboard
5. Click on “MyPage” button
6. Amend the password
7. Click on “Update” button

Use Case #24 - Customer creates a hotel room booking from the Website to book a room to stay in.

Steps:

1. Go to CheckInn Website
2. Click on the side panel button to open dashboard
3. Enter necessary details and click on “Login” button
4. Click on the type of room
5. Enter details in Reservation Form
6. Click on “Proceed to Payment” button

Use Case #25 - Customer views all hotel bookings from the Website to retrieve the hotel booking details.

Steps:

1. Go to CheckInn Website
2. Click on the side panel button to open dashboard
3. Enter necessary details and click on “Login” button
4. Click on the side panel button to open dashboard
5. Click on “Booking History” button

Use Case #26 - Customer views specific hotel booking from the Website to retrieve the hotel booking details.

Steps:

1. Go to CheckInn Website
2. Click on the side panel button to open dashboard
3. Enter necessary details and click on “Login” button
4. Click on the side panel button to open dashboard
5. Click on “Booking History” button
6. Click on specific booking

Use Case #27 - Customer updates hotel booking from the Website to edit the hotel booking details.

Steps:

1. Go to CheckInn Website
2. Click on the side panel button to open dashboard
3. Enter necessary details and click on “Login” button
4. Click on the side panel button to open dashboard and click on “MyPage” button
5. Clicks on specific room

6. Edit details in Reservation Form
7. Click on “Update” button

Use Case #28 - **Customer** deletes hotel booking from the **Website** to cancel my hotel booking.

Steps:

1. Go to CheckInn Website
2. Click on the side panel button to open dashboard
3. Enter necessary details and click on “Login” button
4. Click on the side panel button to open dashboard and click on “MyPage” button
5. Clicks on specific room
6. Click on “Cancel Booking” button

Use Case #29 - **Customer** creates payment for hotel booking on the **Website** to make payment for booking.

Steps:

1. Go to CheckInn Website
2. Click on the side panel button to open dashboard
3. Enter necessary details and click on “Login” button
4. Click on the type of room
5. Enter details in Reservation Form and click on “Proceed to Payment” button
6. Enters the details in Payment Form and click on “Pay Now” button

Use Case #30 - **Customer** searches for rooms from the **Website** to retrieve the hotel details to book.

Steps:

1. Go to CheckInn Website
2. Click on the side panel button to open dashboard
3. Enter necessary details and click on “Login” button
4. Enter hotel name on the search bar
5. Click on “Search” button to search

Use Case #31 - **Customer** logs into the **Mobile App** to access the system.

Steps:

1. Go to CheckInn Mobile Application
2. Enter necessary details
3. Click on “Sign In” button

Use Case #32 - Customer logs out from the Mobile App to exit the system.

Steps:

1. Go to CheckInn Mobile Application
2. Click on Profile (Person Image) button (that is at the top right side)
3. Click on “Sign Out” button

Use Case #33 - Customer uses the QR code scanner from the Mobile App to access the hotel room.

Steps:

1. Go to CheckInn Mobile Application
2. Enter necessary details and click on “Sign In” button
3. Click on “Scan QR code” button
4. Scan the QR code
5. Click on “Confirm” button

Use Case #34 - Customer uses fingerprint scanner from the Mobile App to exit the system.

Steps:

1. Go to CheckInn Mobile Application
2. Enter necessary details and click on “Sign In” button
3. Click on “Scan QR code” button
4. Scan the QR code
5. Click on “Confirm” button
6. Provide their biometrics

Use Case #35 - Customer views Profile from the Mobile App to access the hotel room.

Steps:

1. Go to CheckInn Mobile Application
2. Enter necessary details and click on “Sign In” button
3. Click on Profile button