**ATIKAH:**

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| **USE CASE SPECIFICATION** | |
| Use Case Name | Login |
| Brief Description | This use case allow the user of the system to login into the application |
| Actors | |
| Primary Actor/s | All users |
| Secondary Actor/s | Nil |
| Flow of Events | |
| 4.1 Main Flow (MF) | |
| 4.1.1 | DISPLAYING THE LOGIN PAGE  This use case begins with displaying a required field of email address and password as an input. |
| 4.1.2 | INSERTING EMAIL AND PASSWORD  The user will input their corresponding email address and password in the input provided. Once user has input all the required field, they proceed on clicking ‘Log In’ button. |
| 4.1.3 | VERIFYING USER  The system will use the input and verifying it with the database. If successful, the system will redirect the user to the main page with a message “You have successfully login”. This use case ends. |
| 4.2 Alternate Flows (AF) | |
| 4.2.1 | FAIL VERIFYING USER  AT (MF) 4.1.2, user key in the wrong email and password, the system will display an error stating that there is no such user exist in the system please try again. This use case resumes at (MF) 4.1.1 |
| Special Requirements | |
| Business rules |  |
| Usability requirements |  |
| Data definitions |  |
| Pre conditions |  |
| Post conditions |  |

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| Use Case Name | Manage Review |
| Brief Description | This use case allow the Administrator to pick the review that is appropriate to be publish at the main Testimonial page. |
| Actor | |
| Primary Actor/s | Administrator |
| Secondary Actor/s | Nil |
| Flow of Events | |
| 4.1 Main Flow (MF) | |
| 4.1.1 | LOGIN  The use case begins when the administrator login into the system with an ID and password. |
| 4.1.2 | VIEW ALL REVIEW  At home screen, administrator clicks on Manage Review and the screen displays the list of reviews made by both Host and Guest that allow its review to be published. |
| 4.1.3 | VIEW REVIEW DETAILS  Administrator selects a review to view it’s detail by clicking on the View review button. |
| 4.1.4 | PUBLISH REVIEW  After reading the full review, if the administrator wishes to publish the review, the “Publish” button should be clicked. |
| 4.1.5 | LOGOUT  Use case ends when Administrator clicks on the Log Out button on the screen. |
| 4.2 Alternate Flows (AF) | |
| 4.2.1 | NO LIST OF REVIEW  At Main Flow(MF) 4.1.2 VIEW ALL REVIEW , administrator clicks on the Manage Review button. Screen displays nothing and use case resumes at MF 4.1.5 |
| Special Requirements | |
| Business rules | Only administrator can publish the review to the main testimonial page. |
| Usability requirements | NIL |
| Data definitions | NIL |
| Pre conditions | Administrator had login into the system |
| Post conditions | NIL |

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| Use Case Name | Manage Website |
| Brief Description | This use case allows the Administrator to edit any text of the website such as Terms and Condition page, Contact us page etc. |
| Actors | |
| Primary Actor/s | Administrator |
| Secondary Actor/s | Nil |
| Flow of Events | |
| 4.1 Main Flow (MF) | |
| 4.1.1 | VIEWING CONTACT US PAGE  The use case begins with the system displaying the home page and the admin clicking on the Contact Us link. The system will display the details of the page. |
| 4.1.2 | EDIT CONTACT US PAGE  Administrator is able to edit the content of the Contact Us page and save the changes. |
| 4.1.3 | SAVE CONTACT US PAGE  The system saves the edited information. The page will load back to the same page and show the update version of the Contact Us page. |
| 4.2 Alternate Flows (AF) | |
| 4.2.1 | FAILED TO SAVE  At Main Flow(MF) 4.1.3, pages refresh but with the previous version of the content. The use case resumes at MF 4.1.1. |
| Special Requirements | |
| Business rules | NIL |
| Usability requirements | NIL |
| Data definitions | NIL |
| Pre conditions | Administrator has logged into the system. |
| Post conditions | NIL |

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| Use Case Name | Manage User |
| Brief Description | This use case allow the administrator to manage the system user’s account. |
| Actors | |
| Primary Actor/s | Administrator |
| Secondary Actor/s | Nil |
| Flow of Events | |
| Main Flow (MF) | |
| 4.1.1 | MANAGE USER PAGE  This use case begin with the system displaying list of all users available in the system’s database. |
| 4.1.2 | VIEWING USER INFORMATION  The administrator choose a user and click it. The system will display the information of that selected user. |
| 4.1.3 | EDITING USER INFORMATION  Administrator could help to amend changes of the user’s information and click update button to update it into the database and resume at (MF) 4.1.2. This use case ends. |
| Alternate Flows (AF) | |
| 5.1.1 | CHANGING USER STATUS  This use case begin at (MF) 4.1.2, the system will display the information of the user to the administrator. The administrator can edit the user’s status to active or inactive via a dropdown list and click on the ‘Update’ button. This use case resume at (MF) 4.1.2. |
| Special Requirements | |
| Business rules | Nil |
| Usability requirements | Nil |
| Data definitions | Nil |
| Pre conditions | Nil |
| Post conditions | Nil |

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| Use Case Name | Manage Mailing List |
| Brief Description | This use case allows the Administrator to send mailing list and update the subscription status of the user. |
| Actors | |
| Primary Actor/s | Administrator |
| Secondary Actor/s | NIL |
| Flow of Events | |
| 4.1 Main Flow (MF) | |
| 4.1.1 | VIEW LIST OF USERS UNDER SUBSCRIPTION  The use case begins with the Administrator click Manage Mailing List link. The system will display the list of users under subscription of the mailing list. |
| 4.1.2 | UPDATE SUBSCRIPTION STATUS  Administrator selects one user to update using the “Update” button. Administrator change the status to unsubscribe from subscribe and clicks “Update”. |
| 4.1.3 | SAVE EDITED INFORMATION  System saves the information and goes back to the manage mailing list with users under subscription only. |
| 4.2 Alternate Flows (AF) | |
| 4.2.1 | FAIL TO UPDATE  At Main Flow(MF) 4.1.3, the system fails to update the status. The system displays the original list before updating. The use case resumes at MF 4.1.1. |
| 4.2.1 | SEND EMAIL  At MF 4.1.1, the admin clicks on the button “Send Email” and fill out the content of the page. Once done, the admin clicks “Send” to end the email. The system will redirect back to Manage Mailing List page. The use case resumes at MF 4.1.1 |
| Special Requirements | |
| Business rules | NIL |
| Usability requirements | NIL |
| Data definitions | NIL |
| Pre conditions | Administrator has logged into the system. |
| Post conditions | NIL |

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| Use Case Name | Join Mailing List |
| Brief Description | This use case allows the public to join the mailing without having to create an account in the application. |
| Actors | |
| Primary Actor/s | Public |
| Secondary Actor/s | NIL |
| Flow of Events | |
| 4.1 Main Flow (MF) | |
| 4.1.1 | JOIN MAILING LIST  The use case begins when the public guest clicks on the “Mailing List” link. They fill out the form and click “Join” button. |
| 4. 2 Alternate Flows (AF) | |
| 4.2.1 | FAIL TO JOIN  At MF 4.1.1, user clicks “join” button. System unable to insert the data and display an error message. Use ends at 4.1.1 |
| Special Requirements | |
| Business rules | NIL |
| Usability requirements | NIL |
| Data definitions | NIL |
| Pre conditions | NIL |
| Post conditions | NIL |

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| Use Case Name | Chat Application |
| Brief Description | The use case allows the interaction of message between the host and the guest. |
| Actors | |
| Primary Actor/s | Guest and Host |
| Secondary Actor/s | NIL |
| Flow of Events | |
| 4.1 Main Flow (MF) | |
| 4.1.1 | VIEW OFFER  The use case begins when the Guest clicks “View Offer” link. The system will display all the bookings and categorise the ones with offer made for the booking. |
| 4.1.2 | START CHAT  The Guest clicks on the “Chat” button and it will redirect to the chat page based on the offer with the Host that made the offer. |
| 4.2 Alternate Flows (AF) | |
| 4.2.1 | NO OFFER  At MF 4.1.1, there is no offer made for the booking for the particular Guest. The system displays all the booking under “Booking with no offer” and there will not b a chat button there to start the chat. |
| Special Requirements | |
| Business rules | Only booking with offer will then the chat button will appear. |
| Usability requirements | NIL |
| Data definitions | NIL |
| Pre conditions | Guest/Host has logged in into the system. |
| Post conditions | NIL |

**NAZREEN:**

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| USE CASE SPECIFICATION | |
| Use Case Name | View Offers |
| Brief Description | This use case allows tourists to be able to view offer that was placed for their booking that they made for the hosts. The tourist are also able to see booking with no offers offered and their accepted and completed bookings. |
| Actors | |
| Primary Actor/s | Tourists |
| Secondary Actor/s | Nil |
| Flow of Events | |
| Main Flow (MF) | |
|  | RETRIEVE OFFERS  The use case begins with the system retrieving list of offers that have been placed for the booking made by the tourist and  list of booking that has no offers, accepted and completed. |
|  | VIEW OFFER  The tourist select the offer for their booking  that they want to view. |
| 4.1.3 | VIEW OFFER DETAILS  The system will retrieves and displays the details of the offer that was selected by the tourist. The use case ends. |
| Alternate Flows (AF) | |
|  | ERROR RETRIEVING OFFERS DETAILS  AT MF VIEW OFFER DETAILS, the system fails to retrieve the details of the offer. An error message is displayed and the use case resumes at MF RETRIEVE OFFERS. |
|  | NO OFFERS RETRIEVED  AT MF RETRIEVE OFFERS, the tourists has no offers to retrieve from the system. The system will display an error message and the use case ends. |
| Special Requirements | |
| Business rules | * No duplicate offer for the same booking |
| Usability requirements | Nil |
| Data definitions | offers details, bookings details |
| Pre conditions | Tourist has logged in to the application. |
| Post conditions | The tourist can accept and decline the offer for the booking. The tourist can make review and view their review. The tourist can view their booking details. |

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| Use Case Name | Accept offer |
| Brief Description | This use case allows tourists to be able to accept the offer for the booking placed by the tourist and make payment for the offer that they accepted. |
| Actors | |
| Primary Actor/s | Tourists |
| Secondary Actor/s | Nil |
| Flow of Events | |
| Main Flow (MF) | |
| 4.1.1 | RETRIEVE OFFERS  The use case begins with the system retrieving list of offers that have been placed for the booking. |
| 4.1.2 | VIEW OFFER  The tourist select the offer for their booking  that they want to accept. |
| 4.1.3 | VIEW OFFER DETAILS  The system will retrieves and displays the details of the offer that was selected by the tourist. |
| 4.1.4 | ACCEPT OFFER  The tourist accepts based on the offer being offered to them. The use case ends. |
| Alternate Flows (AF) | |
| 4.2.1 | ERROR RETRIEVING OFFERS DETAILS  AT MF VIEW OFFER DETAILS, the system fails to retrieve the details of the offer. An error message is displayed and the use case resumes at MF RETRIEVE OFFERS. |
| 4.2.2 | ERROR ACCEPTING THE OFFER  AT MF ACCEPT OFFERS, the system fails to accept the offer. An error message will be displayed. The use case will end. |
| Special Requirements | |
| Business rules | * For one booking only one offers can be accepted |
| Usability requirements | Nil |
| Data definitions | offers details, bookings details |
| Pre conditions | Tourist has logged in to the application. |
| Post conditions | The tourist can make payment for the offer accepted. |

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| Use Case Name | Make Review |
| Brief Description | This use case allows tourists and host to make an review based on their experience with the booking and offer. The tourist can save their review as drafts if they do not have time to complete their review. |
| Actors | |
| Primary Actor/s | Tourists, Host |
| Secondary Actor/s | Nil |
| Flow of Events | |
| Main Flow (MF) | |
| 4.1.1 | RETRIEVE ACCEPTED OFFER OR BOOKING  The use case begins with the system retrieving list of offers and bookings that have been accepted by the user. |
| 4.1.2 | SELECT OFFER OR BOOKING  The user select the offer or the booking that they want to make review. |
| 4.1.3 | SUBMIT REVIEW  The user will write up the review and upload a image for the review and submit the review. |
| 4.1.4 | SAVE REVIEW  The system will save the review. The use case ends. |
| Alternate Flows (AF) | |
| 4.2.1 | ERROR RETRIEVE ACCEPTED OFFER OR BOOKING  AT MF VIEW RETRIEVE ACCEPTED OFFER OR BOOKING, the system fails to retrieve the list of accepted offer or booking. An error message is displayed and the use case ends. |
| 4.2.2 | ERROR IN SAVING REVIEW  AT MF SAVE REVIEW, the system fails to save the review. An error message will be displayed. The use case will end. |
| 4.2.3 | SAVE REVIEW AS DRAFT  AT MF SUBMIT REVIEW, the user want to save as draft instead of submitting. The user will save the review and the use resumes at MF SAVE REVIEW. |
| Special Requirements | |
| Business rules | * Each user can only create one review for each offer or booking. |
| Usability requirements | Nil |
| Data definitions | offers details, bookings details, review details |
| Pre conditions | User has logged in to the application. |
| Post conditions | User can edit the review that was saved as draft. User can view saved review based on the offer or booking. |

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| Use Case Name | Capture Image (IOT) |
| Brief Description | This use case allows system to capture image of the tourist when visiting the host’s home for security purpose and upload the captured image to the cloud database |
| Actors | |
| Primary Actor/s | System |
| Secondary Actor/s | Nil |
| Flow of Events | |
| Main Flow (MF) | |
| 4.1.1 | GIVE PERMISSION  The use case begins with the user giving permission to capture the image. |
| 4.1.2 | TAKE IMAGE  The system will capture image and uploads the image to the cloud database for verification purposes. The use case will end. |
| Alternate Flows (AF) | |
| 4.2.1 | ERROR CAPTURING IMAGE  AT MF TAKE IMAGE, the system fails to capture image. An error message is displayed and the use case ends. |
| 4.2.2 | ERROR UPLOADING IMAGE  AT MF TAKE IMAGE, the system fails to upload image. An error message is displayed and the use case ends. |
| Special Requirements | |
| Business rules | * Each booking has one capture image |
| Usability requirements | Nil |
| Data definitions | offers details, image |
| Pre conditions | Host has logged in to the application. |
| Post conditions | Host gets verification on the image of the tourist. |

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| Use Case Name | View Review |
| Brief Description | This use case allows users to view review that was submitted by them based on the booking or the offer. |
| Actors | |
| Primary Actor/s | Tourists, Host |
| Secondary Actor/s | Nil |
| Flow of Events | |
| Main Flow (MF) | |
| 4.1.1 | RETRIEVE REVIEW  The use case begins with the system retrieving list of reviews that have been completed. |
| 4.1.2 | SELECT REVIEW  The user will select the review that they want to view. |
| 4.1.3 | VIEW REVIEW DETAILS  The system will retrieves and displays the review that was made by the review based on the offer or the booking. The use case end. |
| Alternate Flows (AF) | |
| 4.2.1 | ERROR RETRIEVING REVIEW DETAILS  AT MF VIEW REVIEW DETAILS, the system fails to retrieve the review made by the user.. An error message is displayed and the use case resumes at MF RETRIEVE REVIEW. |
| 4.2.2 | ERROR RETRIEVING REVIEW  AT MF RETRIEVE REVIEW, the system fails to retrieve list of the completed review. An error message will be displayed. The use case will end. |
| Special Requirements | |
| Business rules | * For one booking can only view review |
| Usability requirements | Nil |
| Data definitions | offers details, bookings details, review details |
| Pre conditions | User has logged in to the application. |
| Post conditions | Nil |

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| Use Case Name | Upload Photo |
| Brief Description | This use case allows users to upload image for reviews, verification, booking and store it in the database. |
| Actors | |
| Primary Actor/s | Tourists, Host, Public |
| Secondary Actor/s | Nil |
| Flow of Events | |
| Main Flow (MF) | |
| 4.1.1 | SELECT IMAGE  The use case begins with the user selecting the image they want to upload. |
| 4.1.2 | SAVE IMAGE  The system will upload the image in the database. The use case end. |
| Alternate Flows (AF) | |
| 4.2.1 | ERROR SAVING IMAGE  AT MF SAVE IMAGE, the system fails to upload the image. An error message is displayed and the use case resumes at MF SELECT IMAGE. |
| 4.2.2 | INCORRECT IMAGE TYPE  AT MF SELECT IMAGE, the user uploads incorrect image type. An error message is displayed and the use case resumes at MF SELECT IMAGE. |
| Special Requirements | |
| Business rules | * Image type should be only gif, png, bmp, jpeg, jpg |
| Usability requirements | Nil |
| Data definitions | bookings details, review details, image |
| Pre conditions | Tourist and Host has logged in to the application. |
| Post conditions | Nil |

**SYAKIR:**

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| **USE CASE SPECIFICATION** | |
| 1. Use Case Name | Make Offer |
| 1. Brief Description | This use case allows the host to make an offer to a relevant booking request posted by tourists. |
| 1. Actors | |
| 1. Primary Actor/s | Host |
| * 1. Secondary Actor/s | NIL |
| 1. Flow of Events | |
| 1. Main Flow (MF) | |
| 4.1.1 | RETRIEVE HOST & REQUEST DETAILS  The use case begins with the system retrieving details of the host that will be displayed to the tourist who receives the offer. |
| 4.1.2 | VIEW OFFER SUBMISSION DETAILS  The system displays the relevant information to make the offer (Host’s name and location, request ID, tourist’s name. |
| 4.1.3 | CREATE OFFER  The host makes the offer, and an offer is created in the system linked to the request via the booking ID and offer ID. The use case ends. |
| 4.2 Alternate Flows (AF) | |
| 4.2.1. | ERROR RETRIEVING DETAILS  AT MF VIEW OFFER SUBMISSION DETAILS, the system fails to retrieve the details of the host/tourist. An error message is displayed, and the use case resumes at MF RETRIEVE HOST & REQUEST DETAILS. |
| 4.2.2. | ERROR CREATING THE OFFER  AT MF CREATE OFFER, the system fails to create the offer. An error message will be displayed. The use case will end. |
| 1. Special Requirements | |
| 1. Business rules | * Offers can only be made to requests with the status 6(Available to offer) * Hosts can only offer the same request once; repetitive offers cannot be made from the same host to the same request |
| * 1. Usability requirements | NIL |
| * 1. Data definitions | Host details, booking details |
| 1. Pre conditions | Host must be logged in to the application. |
| 1. Post conditions | NIL |

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| 1. Use Case Name | Register as a Host |
| 1. Brief Description | This use case allows the user to create an account as a host in the application. |
| 1. Actors | |
| 1. Primary Actor/s | Host |
| * 1. Secondary Actor/s | NIL |
| 1. Flow of Events | |
| 1. Main Flow (MF) | |
| 4.1.1 | DISPLAY HOST REGISTRATION FORM  The use case begins with the system displaying a form that needs to be filled in by the user. |
| 4.1.2 | CREATE HOST  The system validates the inputs entered by the user (Full Name, Email address, Password, NRIC, NRIC photo, District, Station, Address) and creates the host in the system. |
| 4.1.3 | DISPLAY CONFIRMATION  The system displays the confirmation of successful creation of the host. The use case ends. |
| 4.2 Alternate Flows (AF) | |
| 4.2.1. | INVALID INPUT PROMPT  AT MF CREATE HOST, the system notifies the user if input for any of the fields are invalid (eg. NRIC/Phone number format, missing input for required fields etc.). The use case will resume at MF DISPLAY HOST REGISTRATION FORM. |
| 4.2.2. | ERROR CREATING THE HOST  AT MF CREATE HOST, the system fails to create the host. An error message is displayed, and the use case ends. |
| 1. Special Requirements | |
| 1. Business rules | * Hosts pays a registration fee upon successful account creation |
| * 1. Usability requirements | NIL |
| * 1. Data definitions | Host details |
| 1. Pre conditions | NIL |
| 1. Post conditions | The new host is redirected to the payment page. |

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| 1. Use Case Name | Register as a Tourist |
| 1. Brief Description | This use case allows the user to create an account as a tourist in the application. |
| 1. Actors | |
| 1. Primary Actor/s | Tourist |
| * 1. Secondary Actor/s | NIL |
| 1. Flow of Events | |
| 1. Main Flow (MF) | |
| 4.1.1 | DISPLAY TOURIST REGISTRATION FORM  The use case begins with the system displaying a form that needs to be filled in by the user. |
| 4.1.2 | CREATE TOURIST  The system validates the inputs entered by the user (Full Name, Email address, Password, Country of Residence, Photo ID) and creates the tourist in the system. |
| 4.1.3 | DISPLAY CONFIRMATION  The system displays the confirmation of successful creation of the tourist. The use case ends. |
| 4.2 Alternate Flows (AF) | |
| 4.2.1. | INVALID INPUT PROMPT  AT MF CREATE TOURIST, the system notifies the user if input for any of the fields are invalid (eg. email, phone number format, missing input for required fields etc.) |
| 4.2.2. | ERROR CREATING THE TOURIST  AT MF CREATE HOST, the system fails to create the tourist account. An error message is displayed, and the use case ends. |
| 1. Special Requirements | |
| 1. Business rules | NIL |
| * 1. Usability requirements | NIL |
| * 1. Data definitions | Tourist details |
| 1. Pre conditions | NIL |
| 1. Post conditions | The new tourist is redirected to the login page. |

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| 1. Use Case Name | Edit Profile as a Host |
| 1. Brief Description | This use case allows the user to edit profile details as a Host in the application. |
| 1. Actors | |
| 1. Primary Actor/s | Host |
| * 1. Secondary Actor/s | NIL |
| 1. Flow of Events | |
| 1. Main Flow (MF) | |
| 4.1.1 | RETRIEVE HOST DETAILS  The use case begins with the system retrieving profile information that has been previously entered by the host during registration/edit profile. |
| 4.1.2 | DISPLAY PROFILE DETAILS  The use case begins with the system displaying a populated form with the host’s information. Permanent information (eg. Name, NRIC) will be *readonly*.  Null values will be shown as empty form rows in which new information can be added. |
| 4.1.3 | UPDATE PROFILE DETAILS  The system validates the inputs entered by the host and updates the profile information in the system. |
| 4.1.4 | DISPLAY CONFIRMATION  The system displays the confirmation of successful profile edit of the host. The use case ends. |
| 4.2 Alternate Flows (AF) | |
| 4.2.1. | ERROR RETRIEVING PROFILE INFORMATION  AT MF RETRIEVE HOST DETAILS, the system fails to retrieve the host’s profile details. An error message is displayed, and the use case resumes at MF RETRIEVE HOST DETAILS. |
| 4.2.2. | INVALID INPUT PROMPT  AT MF UPDATE PROFILE DETAILS, the system notifies the user if input for any of the fields are invalid (eg. email, phone number format, missing input for required fields etc.). An error message is displayed, and the use case resumes at MF DISPLAY PROFILE DETAILS. |
| 4.2.3. | ERROR UPDATING PROFILE INFORMATION  AT MF UPDATE PROFILE DETAILS, the system fails to edit the profile information in the system. An error message is displayed, and the use case ends. |
| 1. Special Requirements | |
| 1. Business rules | * Vital information i.e the Host’s name cannot be edited, other values like email address, phone number and address can be edited. |
| * 1. Usability requirements | NIL |
| * 1. Data definitions | Host details |
| 1. Pre conditions | Host must be logged into the application. |
| 1. Post conditions | NIL |

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| 1. Use Case Name | Edit Profile as a Tourist |
| 1. Brief Description | This use case allows the user to edit profile details as a tourist in the application. |
| 1. Actors | |
| 1. Primary Actor/s | Tourist |
| * 1. Secondary Actor/s | NIL |
| 1. Flow of Events | |
| 1. Main Flow (MF) | |
| 4.1.1 | RETRIEVE TOURIST DETAILS  The use case begins with the system retrieving profile information that has been previously entered by the tourist during registration/edit profile. |
| 4.1.2 | DISPLAY PROFILE DETAILS  The use case begins with the system displaying a populated form with the tourist’s information. Permanent information (eg. Name) will be *readonly*.  Null values will be shown as empty form rows in which new information can be added. |
| 4.1.3 | UPDATE PROFILE DETAILS  The system validates the inputs entered by the tourist and updates the profile information in the system. |
| 4.1.4 | DISPLAY CONFIRMATION  The system displays the confirmation of successful profile edit of the tourist. The use case ends. |
| 4.2 Alternate Flows (AF) | |
| 4.2.1. | ERROR RETRIEVING PROFILE INFORMATION  AT MF RETRIEVE TOURIST DETAILS, the system fails to retrieve the tourist’s profile details. An error message is displayed, and the use case resumes at MF RETRIEVE TOURIST DETAILS. |
| 4.2.2. | INVALID INPUT PROMPT  AT MF UPDATE PROFILE DETAILS, the system notifies the user if input for any of the fields are invalid (eg. email, phone number format, missing input for required fields etc.). An error message is displayed, and the use case resumes at MF DISPLAY PROFILE DETAILS. |
| 4.2.3. | ERROR UPDATING PROFILE INFORMATION  AT MF UPDATE PROFILE DETAILS, the system fails to edit the profile information in the system. An error message is displayed, and the use case ends. |
| 1. Special Requirements | |
| 1. Business rules | * Vital information i.e the Tourist’s Name cannot be edited, other values like email address, phone number and Country of Residence can be edited. |
| * 1. Usability requirements | NIL |
| * 1. Data definitions | Tourist details |
| 1. Pre conditions | Tourist must be logged into the application. |
| 1. Post conditions | NIL |

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| 1. Use Case Name | Facial Recognition and Matching |
| 1. Brief Description | This use case allows the host to use the system to validate the identity of the tourist at the door. |
| 1. Actors | |
| 1. Primary Actor/s | Host |
| * 1. Secondary Actor/s | Facial recognition program, Facial detection program. |
| 1. Flow of Events | |
| 1. Main Flow (MF) | |
| 4.1.1 | RETRIEVE TOURIST PHOTOS FROM IOT  The use case begins with the system retrieving real time photo of the tourist when they arrive at the host’s door. |
| 4.1.2 | RETRIEVE TOURIST ID PHOTO FROM SYSTEM  The system retrieves the ID photo from the tourist’s profile information. |
| 4.1.3 | RUN FACIAL RECOGNITION  The system runs the photo from IOT through facial recognition program. |
| 4.1.4 | RUN FACIAL MATCHING  The system runs both photos through the facial matching program. |
| 4.1.5 | DISPLAY RESULTS  The system displays results of the facial check to the host through a web application output. The use case ends. |
| 4.2 Alternate Flows (AF) | |
| 4.2.1. | ERROR RETRIEVING PHOTO ID FROM PROFILE INFORMATION  AT MF RETRIEVE TOURIST ID PHOTO FROM SYSTEM, the system fails to retrieve the ID photo. An error message is shown, and the use case resumes at RETRIEVE TOURIST ID PHOTO FROM SYSTEM. |
| 4.2.2. | ERROR CONDUCTING FACIAL RECOGNITION  AT MF RUN FACIAL RECOGNITION, the facial recognition program fails. An error message is displayed, and the use case ends. |
| 4.2.3. | ERROR CONDUCTING FACIAL MATCHING  AT MF RUN FACIAL MATCHING, the facial matching program fails. An error message is displayed, and the use case ends. |
| 1. Special Requirements | |
| 1. Business rules | NIL |
| * 1. Usability requirements | NIL |
| * 1. Data definitions | Tourist details |
| 1. Pre conditions | NIL |
| 1. Post conditions | NIL |

**ZHAO LIANG:**

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| **USE CASE SPECIFICATION** |

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| 1. Use Case Name | Request Experience |
| 2. Brief Description | This use case allows Food culture’s tourists to request an experience by creating a booking in the system |
| 3. Actors | |
| 3.1. Primary Actor/s | Tourist |
| 3.2. Secondary Actor/s | NIL |
| 4. Flow of Events | |
| 4.1. Main Flow (MF) | |
| 4.1.1. | DISPLAY BOOKING PAGE  The Use Case begins with the system displaying the booking page, showing the details that needs to be filled up by the tourist. |
| 4.1.2. | INSERT BOOKING PAGE VALUES  The Booking page gets filled with details by the tourist. |
| 4.1.3. | SUBMIT BOOKING  System will submit the booking, displaying a message prompting the tourist to confirm the booking made by tourist. Tourist gets redirected to the view booking page. The Use case ends. |
| 4.2. Alternate Flows (AF) | |
| 4.2.1. | ERROR CANCELLING BOOKING  AT MF 4.1.2. INSERT BOOKING PAGE VALUES, if the user clicks on “cancel” during the confirmation message, the booking will not be submitted. The use case resumes at 4.1.2. |
| 4.2.2. | ERROR SUBMITTING BOOKING  AT MF 4.1.3. SUBMIT BOOKING, system is unable to submit the booking. The Use case resumes at MF 4.1.2 INSERT BOOKING PAGE VALUES. |
| 5. Special Requirements | |
| 5.1. Business rules | * Booking date is only restricted to current date and the future. No past dates are allowed. * Maximum of 9 Adult Females, 9 Adult males and 9 Children. * Inactive and Revoked Users are prohibited from creating a booking. |
| 5.2. Usability requirements | NIL |
| 5.3. Data definitions | NIL |
| 6. Pre conditions | User Must be a tourist |
| 7. Post conditions | NIL |

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| 1. Use Case Name | Cancel Experience |
| 2. Brief Description | This use case allows Food culture’s tourists to cancel an experience after creating it. |
| 3. Actors | |
| 3.1. Primary Actor/s | Tourist |
| 3.2. Secondary Actor/s | NIL |
| 4. Flow of Events | |
| 4.1. Main Flow (MF) | |
| 4.1.1. | DISPLAY BOOKING PAGE  The Use Case begins with the system displaying the booking page, showing the details that needs to be filled up by the tourist. |
| 4.1.2. | CANCEL BOOKING  Tourist selects the cancel button on the booking that the tourist wants to delete. |
| 4.1.3. | VIEW BOOKING DETAILS  System will redirect the tourist to the selected booking to view its details before cancelling the booking. |
| 4.1.4. | CONFIRM CANCELLATION  System will display a message prompting the tourist to confirm the booking being cancelled by tourist. Tourist gets redirected back to view booking.The Use case ends. |
| 4.2. Alternate Flows (AF) | |
| 4.2.1. | ERROR CANCELLING BOOKING  AT MF 4.1.3. VIEW BOOKING DETAILS, system fails to cancel the booking and prints an error message. Use case resumes at MF 4.1.2 CANCEL BOOKING |
| 5. Special Requirements | |
| 5.1. Business rules | * Booking can only be cancelled if the Tourist have not accepted an offer from the Host. |
| 5.2. Usability requirements | NIL |
| 5.3. Data definitions | NIL |
| 6. Pre conditions | User Must be a tourist |
| 7. Post conditions | NIL |

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| 1. Use Case Name | View Bookings |
| 2. Brief Description | This use case allows tourists to view their own bookings through a table. |
| 3. Actors | |
| 3.1. Primary Actor/s | Tourist |
| 3.2. Secondary Actor/s | NIL |
| 4. Flow of Events | |
| 4.1. Main Flow (MF) | |
| 4.1.1. | RETRIEVE BOOKINGS  The use case begins with system retrieving list of bookings made by tourist and list of completed bookings by tourist. |
| 4.1.2. | VIEW BOOKINGS  System the booking page, showing the different bookings that tourist want to view. |
| 4.1.3. | VIEW BOOKING DETAILS  The system retrieves and displays all the details of the booking, selected by the tourist. The use case ends |
| 4.2. Alternate Flows (AF) | |
| 4.2.1. | ERROR RETRIEVING BOOKING DETAILS  AT MF 4.1.3. VIEW BOOKING DETAILS, the system fails to retrieve the booking details. An error message is displayed. Use case resumes at MF 4.1.1. RETRIEVE BOOKINGS. |
| 5. Special Requirements | |
| 5.1. Business rules | * Bookings can only be viewed by the current Tourist. * Tourist can only view his/her own bookings. Not allowed to view other tourist’s bookings. * Once user becomes inactive/revoked, all bookings made by the user will not be shown. |
| 5.2. Usability requirements | NIL |
| 5.3. Data definitions | NIL |
| 6. Pre conditions | User must be a tourist |
| 7. Post conditions | Tourist can cancel the booking before it gets accepted by a host, view booking details. |

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| 1. Use Case Name | Make Payment |
| 2. Brief Description | This use case allows tourists to make payment via PayPal when the Tourist accepts an offer from the Host. |
| 3. Actors | |
| 3.1. Primary Actor/s | Tourist |
| 3.2. Secondary Actor/s | Host |
| 4. Flow of Events | |
| 4.1. Main Flow (MF) | |
| 4.1.1. | DISPLAY OFFER DETAILS PAGE  The Use Case begins with the system displaying the details of the offer made by the Host to the Tourist. Tourist can choose to accept the offer, decline the offer or to go back to the view offer page. |
| 4.1.2. | ACCEPT OFFER  Tourists accepts the offer, the system will redirect the user to a page listing the booking id, payment id, amount to pay and the host’s name. |
| 4.1.3. | VIEW PAYMENT DETAILS  System retrieves and displays the payment details of the accepted offer. |
| 4.1.4. | REDIRECT TO PAYPAL GATEWAY  Tourist pays for the booking, system will redirect tourist to the PayPal gateway. Tourist logs in using their PayPal email and password or they can pay with credit/debit card. |
| 4.1.5. | DISPLAY BOOKING COSTS  Tourist has logged into PayPal, PayPal displays the payment details selected by Tourist. |
| 4.1.6. | SUBMIT PAYMENT  Tourist submits and confirms payment, PayPal notifies them that the payment has been made. PayPal redirects tourist to the Food Culture page. |
| 4.1.7. | SELECT RETURN TO MERCHANT BUTTON  After tourists clicks on that button, it will redirect the user back to the Food Culture page and notify that their payment was successful. The Use Case ends. |
| 4.2. Alternate Flows (AF) | |
| 4.2.1. | ERROR CANCELLING PAYMENT  AT MF 4.1.5. DISPLAY BOOKING COSTS, tourists cancels payment, the system will redirect the user to a page notifying user that their payment is cancelled. The use case ends. |
| 4.2.2. | ERROR DIFFERENT PAYMENT  AT MF 4.1.4 REDIRECT TO PAYPAL GATEWAY, tourists selects other option of payment with credit/debit card. The payment process continues and the use case resumes at 4.1.5. |
| 5. Special Requirements | |
| 5.1. Business rules | * Adults are charged at $40 each, Children are charged at $30 each * Once payment is made, E-receipt will be issued. |
| 5.2. Usability requirements | NIL |
| 5.3. Data definitions | NIL |
| 6. Pre conditions | * User must be a tourist * Offer must be accepted by tourist from host |
| 7. Post conditions | After payment is a success, Tourist continues back to the view offer page. If payment is cancelled, it will also be returned to the view offer page. |

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| 1. Use Case Name | View Requests |
| 2. Brief Description | This use case allows hosts to view the various bookings and make offers to them. |
| 3. Actors | |
| 3.1. Primary Actor/s | Host |
| 3.2. Secondary Actor/s | NIL |
| 4. Flow of Events | |
| 4.1. Main Flow (MF) | |
| 4.1.1. | RETRIEVE REQUESTS  The use case begins with the system retrieving a list of requests that have been placed by the tourists that are pending an offer or have been accepted by the tourist. |
| 4.1.2. | VIEW REQUEST  Host selects the request that wants to be viewed. |
| 4.1.3. | VIEW REQUEST DETAILS  The system will retrieve the details of the request that the host has selected. The use case ends. |
| 4.2. Alternate Flows (AF) | |
| 4.2.1. | ERROR RETRIEVING REQUESTS DETAILS  AT MF 4.1.3. VIEW REQUEST DETAILS, system fails to retrieve request details. Error message gets displayed and the use case resumes at MF 4.1.1 RETRIEVE REQUESTS. |
| 5. Special Requirements | |
| 5.1. Business rules | NIL |
| 5.2. Usability requirements | NIL |
| 5.3. Data definitions | NIL |
| 6. Pre conditions | * User must be a host * Offer must be accepted by tourist from host |
| 7. Post conditions | Host can make offers to the requests, make reviews for accepted requests. |

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| 1. Use Case Name | View Transactions |
| 2. Brief Description | This use case allows tourists to view their own receipts for payments made. |
| 3. Actors | |
| 3.1. Primary Actor/s | Tourist |
| 3.2. Secondary Actor/s | NIL |
| 4. Flow of Events | |
| 4.1. Main Flow (MF) | |
| 4.1.1. | RETRIEVE TRANSACTIONS  The use case begins with the system retrieving a list of transactions made by tourists. |
| 4.1.2. | VIEW TRANSACTION  Tourist selects the transactions that wants to be viewed. |
| 4.1.3. | VIEW RECEIPT DETAILS  The system will retrieve the details of the receipt that the tourist has selected. The use case ends. |
| 4.2. Alternate Flows (AF) | |
| 4.2.1. | ERROR RETRIEVING TRANSACTIONS DETAILS  AT MF 4.1.3. VIEW RECEIPT DETAILS, system fails to retrieve receipt details. Error message gets displayed and the use case resumes at MF 4.1.1 RETRIEVE TRANSACTIONS. |
| 5. Special Requirements | |
| 5.1. Business rules | * Tourist can only view his/her own receipts. * Only completed transactions can be viewed. |
| 5.2. Usability requirements | NIL |
| 5.3. Data definitions | NIL |
| 6. Pre conditions | * User must be a tourist. * Payments must be made after accepting the offer. |
| 7. Post conditions | NIL |