**Caribbean Fantasy Tours**

caribbean fantasy tours Requirements specification

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# Introduction

The following document captures the known functional requirements of an online booking system called Caribbean Fantasy Tours (CFT). Caribbean Fantasy Tours purpose is to be a one-stop-shop for customers to book cruises through cruise lines that are registered through CFT. The system allows customers to book cruises with many onshore excursions at each port visited throughout the cruise, while also allowing customers to choose their room price package and browse specific details about cruises. In order for customers to book a cruise, the system requires customers to register with CFT and login to their accounts before booking a cruise.

## Purpose

This document covers the complete functionality requirements identified in the above description of the system.

## Definitions and Acronyms

Cruise Information:

* Ports visited
* Onshore excursions
  + Packages are offered by the onshore tour operators, *not* the cruise lines.
* Ship facilities
* Room price packages

Logged in: the seller has entered a registered email address and corresponding password, and the system has selected and makes available to other use cases the seller’s book list and statistics.

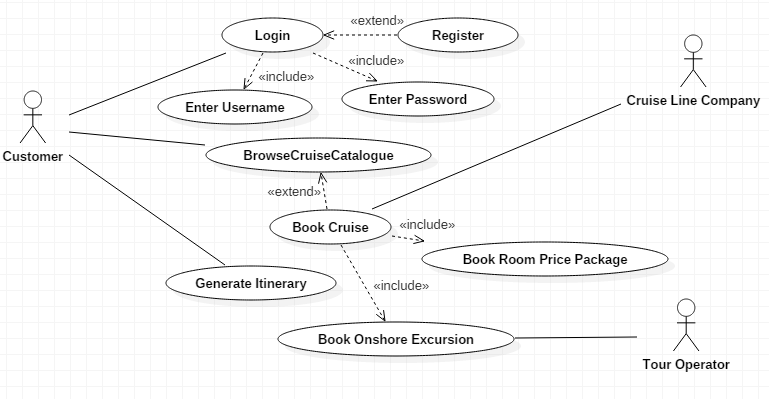
CFT: Caribbean Fantasy Tours

# Caribbean Fantasy Tours

The Caribbean Fantasy Tours online booking system provides customers the ability to book Caribbean cruises without dealing with cruise lines directly. Customers register with CFT by creating a unique username and password to book cruises. Cruises offered are displayed to the customer through the catalogue provided by CFT. For cruises that interest customers, CFT allows the customer to browse the cruises specific details like ports visited, room price packages, ship facilities, and onshore excursions offered at each port. Onshore tour operators offer excursion packages that are separate from the cruise packages. The cruise line company is notified when a customer makes a booking, as well as the onshore tour operator if the customer chooses to book an excursion. After a booking is confirmed, CFT has all the necessary saved data to produce an itinerary if the customer wishes.

## Caribbean Fantasy Tours Use Case Diagram

The use case diagram for Caribbean Fantasy Tours is shown below. Brief descriptions of the use cases and actors can be found beneath the diagram.



### Actors

* Customer – the primary actor for the model. They will initiate all use cases and represent anyone who is registered with CFT and wants to book a cruise.
* Cruise Line Company – the company that offers cruises through CFT (one to many companies are registered with CFT).
* Tour Operator – offers onshore excursions for the customers to experience

### Use Cases

The model has the following use cases:

* Login: A customer must login before they can book any cruises through CFT, this use case provides that functionality.
* Enter Username: A customer must enter their unique username to be in the process of logging in. The login use case is not complete without the customer’s unique username entered.
* Enter Password: A customer must enter their password associated with their unique username to be considered logging in. The login use case is not complete without the customer’s password entered.
* Register: If a customer does not have an existing account through CFT, they can register for one by creating a unique username and password for their account. This use case extends the ***Login*** use case.
* Browse Cruise Catalogue: A customer can browse the available cruises for booking that are offered through CFT in this catalogue. Only cruises with available rooms, i.e. not fully booked, will be show in the catalogue.
* Book Cruise: A customer can book any cruise they see in the catalogue. This will notify the associated cruise line company that they have a new booking. This use case extends the ***Browse Cruise Catalogue*** use case.
* Book Onshore Excursion: A customer can book one to many onshore excursions offered at each port visited throughout the cruise. Excursion packages are offered by onshore tour operators who are notified if the customer chooses a package.
* Book Room Price Package: A customer must choose a room price package to complete the booking process. They may not choose specific rooms, just room packages.
* Generate Itinerary: The CFT system will have the necessary saved data if the customer wishes to have an itinerary generated for their cruise.

## Assumptions

We will assume that the customer never forgets their username and password to sign in, and that they never mistype it. Error handling and “forgot username and/or password” functionalities are out of scope.

We will assume that the cruises offered through CFT are browsable in some way on the CFT website, and in an organized way (see ***Browse Cruise Catalogue Use Case Specifications*** for more information).

# 3. Caribbean Fantasy Tours Specific Requirements

## 3.1 Login Use-Case Specifications

**3.1.1 Actors**

### 3.1.1.1 Customer

Customer initiates the use case

## 3.1.2 Brief Description

Before a customer can book a cruise through Caribbean Fantasy tours, they must first login to the system. If a customer does not already have an existing account, they will be directed to the registration page where they will create their account.

***Login***use case will not handle any errors for now, we will assume that customers will always enter their username and password correctly for the time being.

The authentication process for the username and password will be chosen at a later time.

# 3.1.3 Flow of Events

## 3.1.3.1 Basic Flow

1. This use case occurs when a customer wants to book a Caribbean cruise through CFT, but must first login to the system to do so.
2. The system displays the login page so the customer can book their cruise, or browse the catalogue.
3. The customer enters their username and password. The system validates the username and password as an already existing account with CFT.
4. The system navigates the customer to the Cruise Information Catalogue where the customer can browse available cruises, and look at specific details within those cruises.

## 3.1.3.2 Alternative Flows

### 3.1.3.2.1 Customer enters an invalid Username or Password

We will assume that the customers enter valid usernames and passwords every time if they already have an existing account.

### 3.1.3.2.2 Customer does not have an existing account

At the beginning of the use case, if the customer does not have an existing account through CFT, the login page will redirect them through a link to the registration page. Here, the customer will create a unique username and password to book cruises through CFT.

The Basic Flow continues at the point where the customer enters their valid username and password credentials.

# 3.1.4 Pre-Conditions

## 3.1.4.1 Customer has an existing account through CFT

The customer must have an existing account through CFT before he/she can login to book a cruise

# 3.1.5 Post-Conditions

## 3.1.5.1 Customer has been logged in

The entered username and password for the customer are validated and he/she is logged into CFT.

# 3.1.6 Extension Points

## 3.1.6.1 Register

The ***Register Use Case*** extends the login use case and is used when a customer does not have an existing account with CFT.

# 3.1.7 Inclusion Points

## 3.1.7.1 Enter Username

The customer will enter their username as part of the login process.

## 3.1.7.2 Enter Password

The customer will enter their password as part of the login process.

# 3.2 Enter Username Use Case Specifications

## 3.2.1 Actors

### 3.2.1.1 Customer

Customer initiates the use case

## 3.2.2 Brief Description

For a customer to login, they must enter their registered username with CFT as part of the login procedure. We will assume that the customer never “forgets” their username or “mistypes” it. Functionality for dealing with forgotten usernames or login errors will be dealt with later.

The ***Login*** use case is not complete without a registered username entered in the username field.

# 3.2.3 Flow of Events

## 3.2.3.1 Basic Flow

1. This use case occurs whenever there is a need by the system for the customer to login, or if the customer wants to login.

2. The customer is directed to the login page.

3. The system displays the login fields required for booking cruises through CFT.

4. The customer enters their unique username.

5. The base use case***, Login*** continues where it left off.

## 3.2.3.2 Alternative Flows

None

# 3.2.4 Pre-Conditions

## 3.2.4.1 Customer has an existing account through CFT

The customer must have an existing account through CFT in order to be completing the login process by entering their username.

# 3.2.5 Post-Conditions

None

# 3.2.6 Extension Points

None

# 3.2.7 Inclusion Points

None

# 3.3 Enter Password Use Case Specifications

## 3.3.1 Actors

### 3.3.1.1 Customer

Customer initiates the use case

## 3.3.2 Brief Description

For a customer to login, they must provide the password associated with their account with the CFT system. As with the ***Enter Username*** use case, we will assume that the customer never “forgets” or “mistypes” their password. This functionality will be dealt with later as well.

The ***Login*** use case is not complete without the correct password for the associated username entered in the password field.

# 3.3.3 Flow of Events

## 3.3.3.1 Basic Flow

1. This use case occurs whenever there is a need by the system for the customer to login, or if the customer wants to login.

2. The customer is directed to the login page.

3. The system displays the login fields required for booking cruises through CFT.

4. The customer enters the password associated with their CFT account username.

5. The base use case***, Login*** continues where it left off.

## 3.3.3.2 Alternative Flows

None

# 3.2.4 Pre-Conditions

## 3.3.4.1 Customer has an existing account through CFT

The customer must have an existing account through CFT to be completing the login process by entering their username’s password.

# 3.3.5 Post-Conditions

None

# 3.3.6 Extension Points

None

# 3.3.7 Inclusion Points

None

# 3.4 Register Use Case Specifications

## 3.4.1 Actors

### 3.4.1.1 Customer

Customer initiates the use case

## 3.4.2 Brief Description

This use case extends the ***Login*** use case at the ***Register*** extension point. This use case occurs when the customer wants to book a cruise through CFT, but they do not have an existing account to do so.

This use case will provide account-creation functionality so the customer can start booking cruises through CFT.

Customers are required to enter a unique username and any password for their account to be activated.

# 3.4.3 Flow of Events

# 3.4.3.1 Basic Flow

1. This use case occurs when the customer who wants to book cruises through CFT, does not have an existing account.

2. The system displays a form that allows the customer to enter a unique username, and two password fields to create and confirm the password for the customer’s account.

3. The customer enters their username and password. The system then asks to the customer to confirm that the information entered is what they want.

4. The customer confirms the information is what they want and the system validates the information.

5. The system creates the account for the customer after validation, and navigates them back to the login page.

6. The customer logs-in with their newly created account and the base use case *Login* continues where it left off.

## 3.4.3.2 Alternative Flows

### 3.2.3.2.1 Customer Enters an Invalid Username

It is possible that the username the customer enters is already taken by another customer. If this occurs, the system will continue to alert the customer that the username entered is already taken until the customer enters a new, unique username for their account.

The Basic Flow continues at the point where the customer has entered a unique username and a password for their account, and the system has validated it.

# 3.4.4 Pre-Conditions

None

# 3.4.5 Post-Conditions

## 3.2.5.1 Customer has Active Account

The username and password entered for the customer’s account are validated and the account is activated by the system so the customer can book cruises.

# 3.4.6 Extension Points

None

# 3.4.7 Inclusion Points

None

# 3.5 Browse Cruise Catalogue Use Case Specifications

## 3.5.1 Actors

### 3.5.1.1 Customer

Customer initiates the use case

## 3.5.2 Brief Description

This use case allows the customer to browse through the cruises being offered through CFT, and the specific details for each cruise. We will assume that CFT has some type of catalog or system that has all the available cruises organized in a single location on their website.

The system will display information on cruises that the customer can book, and all cruises available for booking.

The customer has the option to book the cruise they see in the catalog, see ***Book Cruise*** use case for more information.

The customer does not have to be logged in to view the catalogue, but does have to be signed in to book a cruise.

# 3.5.3 Flow of Events

## 3.5.3.1 Basic Flow

1. This use case occurs when the customer indicates to the system that he/she would like to browse for cruises. The customer may only browse available cruises, fully-booked cruises will not be shown.

2. The customer selects the cruise catalogue.

3. The system displays all available cruises for booking in the catalogue.

4. The customer browses the catalogue until he/she finds a cruise that interests them.

5. The customer selects the cruise of interest, and the system displays the detailed cruise information.

6. The customer continues to browse the catalogue until he/she books a cruise

### 3.5.3.1.1 Display Detailed Cruise Information

The system will display these specific details to the customer when the customer selects an available cruise:

* Port information (ports visited, and the sequence of visitation)
* Room price packages
* Cruise ship facilities
* On-shore excursions at each port (one, or many excursions may exist)

## 3.5.4 Alternative Flows

None

# 3.5.4 Constraints

## 3.5.4.1 Available Cruises

The catalog will only display cruises that are available for booking. We will assume that past cruises and future cruises that are full will not be shown in the catalog, as they are irrelevant to the customer.

# 3.5.6 Pre-Conditions

None

# 3.5.7 Post-Conditions

None

# 3.5.8 Extension Points

## 3.5.8.1 Book Cruise

The ***Book Cruise*** use case extends the *Browse Cruise Catalogue*. It is used when the customer decides to book a cruise.

# 3.5.9 Inclusion Points

None

# 3.6 Book Cruise Use Case Specifications

## 3.6.1 Actors

### 3.6.1.1 Customer

Customer initiates the use case

### 3.6.1.2 Cruise Line Company

Cruise Line gets informed when a customer makes a booking with their company

## 3.6.2 Brief Description

When browsing through the Cruise Catalogue (see ***Browse Cruise Catalogue*** use case), the customer may choose to book the cruise they have clicked on.

To book, the customer must have previously logged in. If they are not logged in, the customer will be redirected to the login page first before booking a cruise.

The ***Book Cruise*** use case includes two functionalities of *Book Excursion* and *Book Room Package* once the customer books the cruise they want.

# 3.6.3 Flow of Events

# 3.6.3.1 Basic Flow

1. This use case occurs when the customer has browsed through the cruise catalogue and have finally chosen a final cruise to book.

2. The customer chooses a cruise to book in the cruise catalogue.

3. The system displays the cruise selected and asks the customer to confirm.

4. The customer confirms and the system navigates the customer to the room price packages page where the customer chooses a package that is offered by the cruise.

5. The customer browses the packages and chooses their room price package.

6. The system returns the customer to the finalize booking page where the cruise chosen and room price package are displayed, asking the customer to confirm the information, i.e. book the cruise and room.

7. The customer confirms the information and the system processes their request.

8. The system confirms the booking and the cruise-line company the customer chose is notified of the booking.

9. The system navigates to the book excursion page, where the customer can now book onshore excursions at each of the port destinations during their cruise.

## 3.6.3.2 Alternative Flows

### 3.6.3.2.1 Customer attempts booking without logging in

The customer cannot book a cruise without logging in. If the customer tries to do so, they will be redirected back to the login page before moving on with the booking process

The Basic Flow continues at the point where the customer clicks on the book button, after having signed in.

# 3.6.4 Pre-Conditions

## 3.6.4.1 Customer has an existing account with CFT

The customer must have an existing account through CFT before he/she can login to book a cruise

## 3.6.4.2 Customer has logged into their account

The customer has logged into their CFT account.

# 3.6.5 Post-Conditions

## 3.6.5.1 Customer has booked a cruise

The customer has a confirmed booking on a cruise through CFT.

# 3.6.6 Extension Points

None

# 3.6.7 Inclusion Points

## 3.6.7.1 Book Off-Shore Excursions

The ***Book Off-Shore Excursions*** use case will occur when the customer has a booked cruise.

## 3.6.7.2 Book Room Price Package

The ***Book Room Price Package*** use case occurs during the *Book Cruise* use case when the customer has chosen a cruise, and now needs to choose a room price package.

# 3.7 Book Onshore Excursion Use Case Specifications

## 3.7.1 Actors

### 3.7.1.1 Customer

Customer initiates the use case

### 3.7.1.2 Tour Operator

Tour operator of the onshore excursion is notified when a customer makes a booking

## 3.7.2 Brief Description

Before a customer can book an onshore excursion, they must be logged in and have a cruise already booked. Customers can only book excursions for booked cruises.

When a customer books an onshore excursion, the tour operator associated with the excursion is notified of the booking.

Booking onshore excursions are optional for customers, but if they do choose to book an excursion, they have the option to book one or many excursions for their cruise.

# 3.7.3 Flow of Events

## 3.7.3.1 Basic Flow

1. This use case occurs when the customer has a confirmed booking of a cruise offered through CFT, and they have chosen to add onshore excursions to their experience.

2. The system displays the offered excursion(s) at each port on the cruise the customer will be on.

3. The customer chooses the excursions they would like to experience.

4. The system displays the chosen excursions and asks the customer to confirm their choices

5. The customer confirms their choices and the system processes the request

6. The system concludes the request and informs the customer the excursion(s) are confirmed.

7. The system notifies the tour operator(s) associated with the chosen excursion(s) that a new booking has occurred.

## 3.7.3.2 Alternative Flows

None

# 3.7.4 Constraints

## 3.7.4.1 Excursion Booking

The customer can only book excursions that participate in the cruise they have booked.

# 3.7.5 Pre-Conditions

## 3.7.5.1 Customer has logged in

The customer has logged into their CFT account.

## 3.7.5.2 Customer has a booked cruise

The customer must have booked a cruise through CFT to book excursions.

# 3.7.6 Post-Conditions

## 3.7.6.1 Customer has a booked excursion

The customer has successfully booked an excursion or excursions at the ports included in their booked cruise.

# 3.7.7 Extension Points

None

# 3.7.8 Inclusion Points

None

# 3.8 Book Room Price Package Use Case Specifications

## 3.8.1 Actors

### 3.8.1.1 Customer

Customer initiates the use case

## 3.8.2 Brief Description

Before a customer can book a room price package, they must first be booking a cruise. The customer is navigated to this page during the booking process after they have chosen a cruise in the CFT system.

The system will display the offered room price packages on the cruise, however, specific rooms are not available for purchase.

The ***Book Cruise*** use case is not complete until the customer chooses a room price package.

# 3.8.3 Flow of Events

## 3.8.3.1 Basic Flow

1. This use case occurs during the booking process of a cruise. The customer is navigated to the room price packages once they have selected a cruise.

2. The system displays the available room price packages within the cruise the customer has selected.

3. The customer chooses the room price package.

4. The system displays the chosen package and asks the customer to confirm.

5. The customer confirms the package and the system processes the request.

6. The system confirms the request and the base use case, ***Book Cruise*** continues where it left off.

## 3.8.3.2 Alternative Flows

None

# 3.8.4 Pre-Conditions

## 3.8.4.1 Customer is Logged In

The customer is logged into their CFT account.

## 3.8.4.2 Customer is Booking a Cruise

The customer must be in the process of booking a cruise in order to choose a room price package.

# 3.8.5 Post-Conditions

## 3.8.5.1 Finalized Room Price Package

The customer has a finalized room price package for their cruise.

# 3.8.6 Extension Points

None

# 3.8.7 Inclusion Points

None

# 3.9 Generate Itinerary

## 3.9.1 Actors

### 3.9.1.1 Customer

Customer initiates the use case

## 3.9.2 Brief Description

Before a customer can generate an itinerary, they must have a booked cruise through a company in the CFT system, and they must be logged in. Once it is generated, they will have the option to either print, save, or email the itinerary.

Generating an itinerary is not required for cruises booked through CFT, but the CFT system has the necessary details saved if the customer wishes to generate one.

# 3.9.3 Flow of Events

# 3.9.3.1 Basic Flow

1. This use case occurs when the customer chooses to generate an itinerary after they have booked a cruise.

2. The customer navigates to their booked cruise which is saved through their CFT account.

3. The customer chooses to generate an itinerary for their selected booked cruise.

4. The system generates the itinerary and displays it to the customer.

5. The customer chooses what they want to do with the itinerary, i.e. print, save, email.

6. The system performs the request the customer selects.

## 3.9.3.2 Alternative Flows

None

# 3.9.4 Pre-Conditions

## 3.9.4.1 Customer has logged in

The customer has logged into their CFT account.

## 3.9.4.2 Customer has a booked cruise

The customer must have booked a cruise through CFT to generate an itinerary.

# 3.9.5 Post-Conditions

## 3.9.5.1 Customer has a generated itinerary

The system has generated an itinerary for the chosen cruise by the customer.

# 3.9.6 Special Requirements

## 3.9.6.1 Print

The system should be able to print a hard-copy of the itinerary for the customer.

# 3.9.7 Extension Points

None

# 3.9.8 Inclusion Points

None