

**CS6110 - OBJECTED ORIENTED ANALYSIS
AND DESIGN**

**CUSTOMIZED TOURISM PACKAGE
SELECTION SYSTEM**

USE CASE MODELING

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CASE STUDY:

CUSTOMIZED TOURISM PACKAGE SELECTION SYSTEM

ACTORS:

ACTORS	DESCRIPTION
Tourist	One who select packages
Tourist Guide	One who guides the tourist
Coordinator	One who coordinates the tour
Admin	One who maintain the database

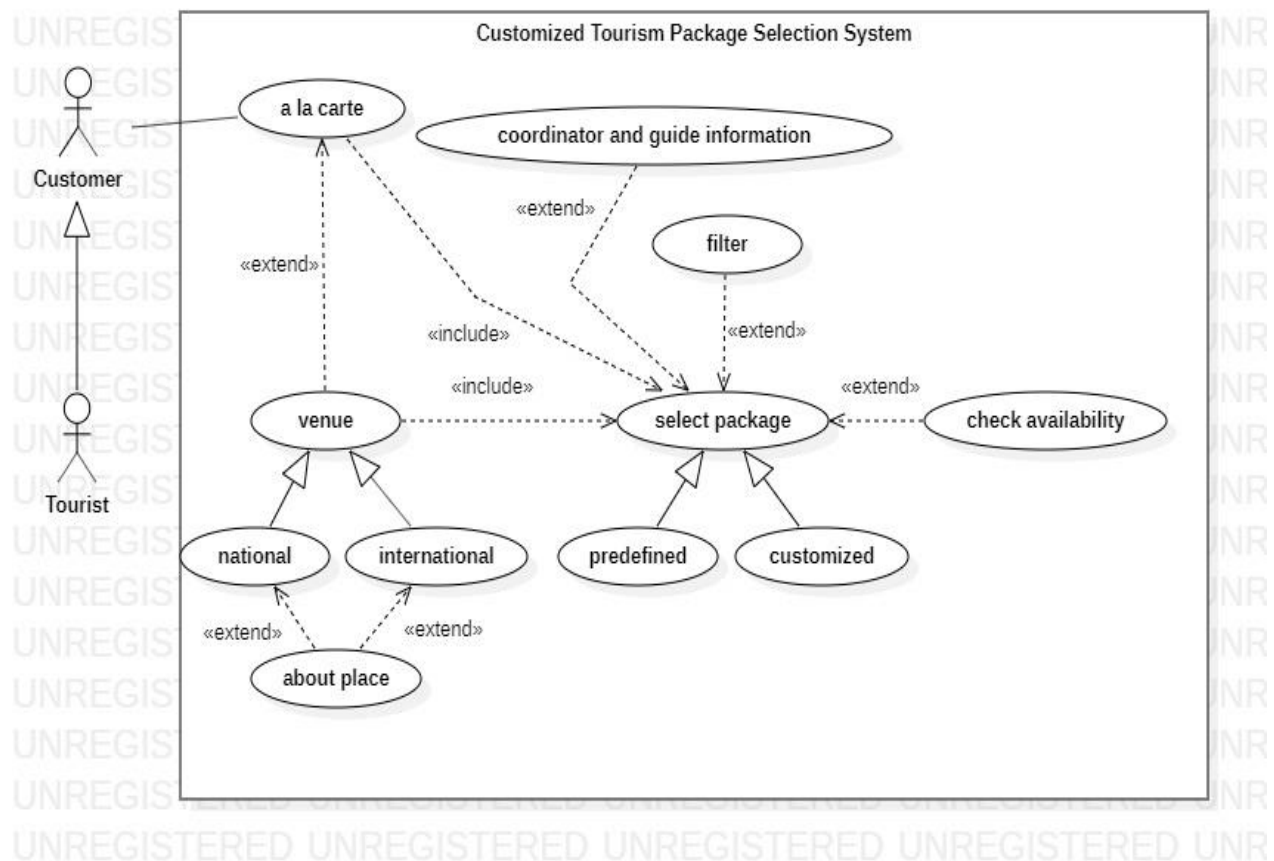
GOALS:

ACTORS	GOALS
Tourist	<ul style="list-style-type: none">• Selects a package• Reserve the tours• Cancels the tour• Makes payment• Gives feedback
Tourist Guide	<ul style="list-style-type: none">• Views tourist information• Gives the feedback
Coordinator	<ul style="list-style-type: none">• Views tourist information• Gives the feedback
Admin	<ul style="list-style-type: none">• Manages the refund process• Manages the tourism database

USE CASES:

1)

USE CASE DIAGRAM:



BRIEF DESCRIPTION:

Tourists can choose a venue and then select or customize a package in that venue or tourists can directly select or customize packages. While choosing a venue, they can view the details of that venue. Tourists can use filter option which is based on cost, rating, class, duration while selecting a package. Before selecting a package, they can check its availability. Tourists can view the details about the coordinator and guide who will be accompanying them.

EXPLANATION OF USE CASES:

- **a la carte:**
 - **Scope:** Customized tourism package selection system
 - **Primary Actor:** Customer -> Tourists
 - **Stakeholders and Interests:**
 - Tourists – want to select a package.
 - **Preconditions:**
 - Tourists must be logged in.
 - **Success Scenario:**
 - Tourists successfully customize their desired packages.
 - **Alternate Flow:**
 - If tourist is not happy with the selected package, then the tourist can either make an alternate selection or request for refund.
- **Venue:**
 - **Scope:** Customized tourism package selection system
 - **Success Scenario:**
 - Tourists successfully select the desired venue.
- **International:**
 - **Scope:** Customized tourism package selection system
 - **Success Scenario:**
 - Tourists successfully select the desired country.
- **National:**
 - **Scope:** Customized tourism package selection system.
 - **Success Scenario:**
 - Tourists successfully select the states in a particular country.
- **About Place:**
 - **Scope:** Customized tourism package selection system.
 - **Success Scenario:**
 - Tourist can view the details of the particular place and famous tourist spots in that place.
- **Select Package:**
 - **Scope:** Customized tourism package selection system.

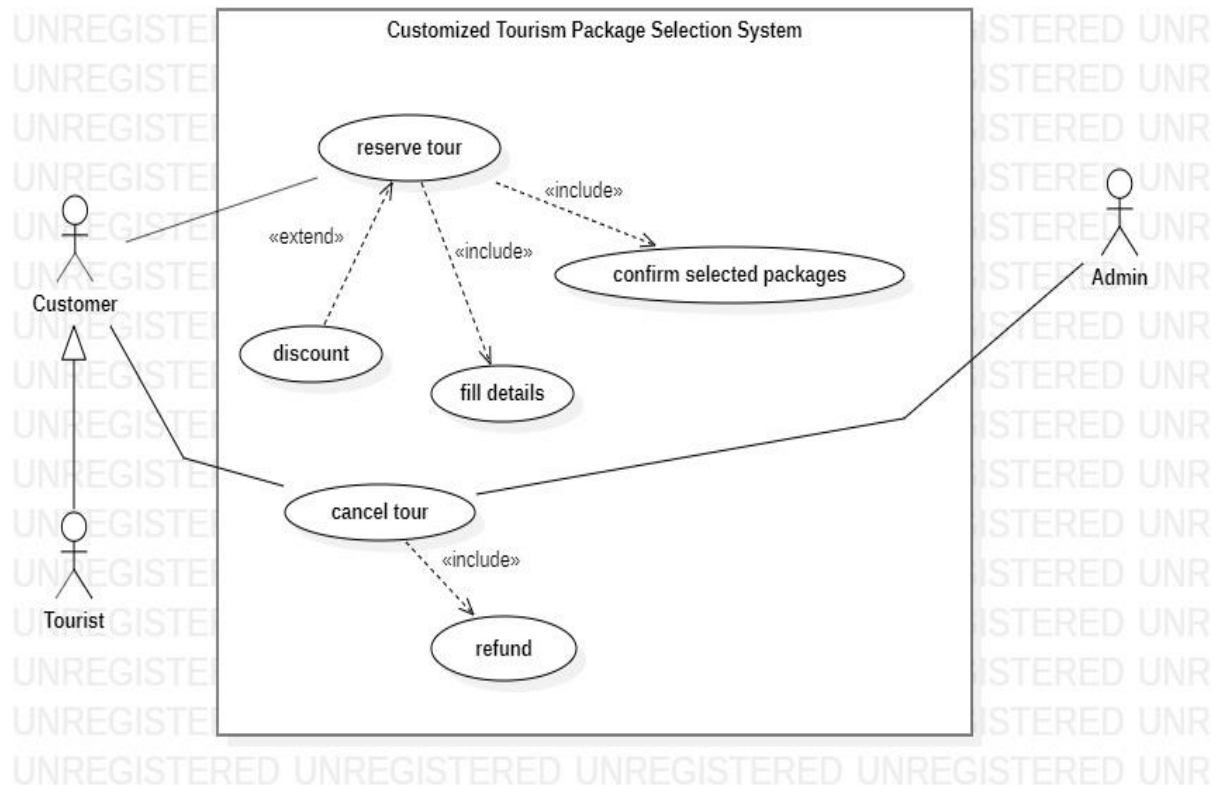
- **Success Scenario:**
 - After selecting the required venue, tourists can select the package.
- **Predefined:**
 - **Scope:** Customized tourism package selection system
 - **Success Scenario:**
 - For a particular venue, tourists can select a package from one of listed packages
- **Customized:**
 - **Scope:** Customized tourism package selection system
 - **Success Scenario:**
 - For a particular venue, tourists can create their own packages with their desired tourist spots.
- **Filter:**
 - **Scope:** Customized tourism package selection system
 - **Success Scenario:**
 - Tourists can also select the packages by using filter option which is based on duration, cost, rating, and class.
- **Check Availability:**
 - **Scope:** Customized tourism package selection system
 - **Success Scenario:**
 - Before selecting a package, tourists can check its availability.
- **Coordinator and Guide Information:**
 - **Scope:** Customized tourism package selection system
 - **Success Scenario:**
 - While selecting a package, tourists can view the details of the coordinator and guide who will be assisting them.

EXPLANATION OF LEVEL OF ABSTRACTION:

We have used the include relationship to simplify the large **a la carte** use case. That is, we have split the large use case into several use cases. The purpose of this action is modularization of behaviours, making them more manageable.

2)

USE CASE DIAGRAM:



BRIEF DESCRIPTION:

Tourist reserves the tour by confirming the selected package and he/she fills the necessary details. Tourist may avail a coupon if available. The tourist can cancel the tour and tourist can request for the refund if the payment is made already for the reserved tour.

EXPLANATION OF USE CASES:

- **Reverse Tour:**
 - **Scope:** Customized tourism package selection system
 - **Primary Actor:** Customer->Tourists
 - **Stakeholders and Interests:**

- Tourist – wants to book a tour
- **Preconditions:**
 - Tourists must be logged in.
- **Success Scenario:**
 - Tourists can successfully reserve a desired tour.
- **Confirm Selected Package:**
 - **Scope:** Customized tourism package selection system
 - **Success Scenario:**
 - Tourists can successfully confirm a selected package.
- **Discount:**
 - **Scope:** Customized tourism package selection system
 - **Success Scenario:**
 - Tourists can avail a discount if it is available.
- **Fill Details:**
 - **Scope:** Customized tourism package selection system
 - **Success Scenario:**
 - Tourists will have to fill their details for verification
- **Cancel Tour:**
 - **Scope:** Customized tourism package selection system
 - **Preconditions:**
 - Tourists must be logged in.
 - **Success Scenario:**
 - Tourists can cancel the selected tour.
- **Refund:**
 - **Scope:** Customized tourism package selection system
 - **Success Scenario:**
 - Tourists can request refund for the cancelled tour.

EXPLANATION OF LEVEL OF ABSTRACTION:

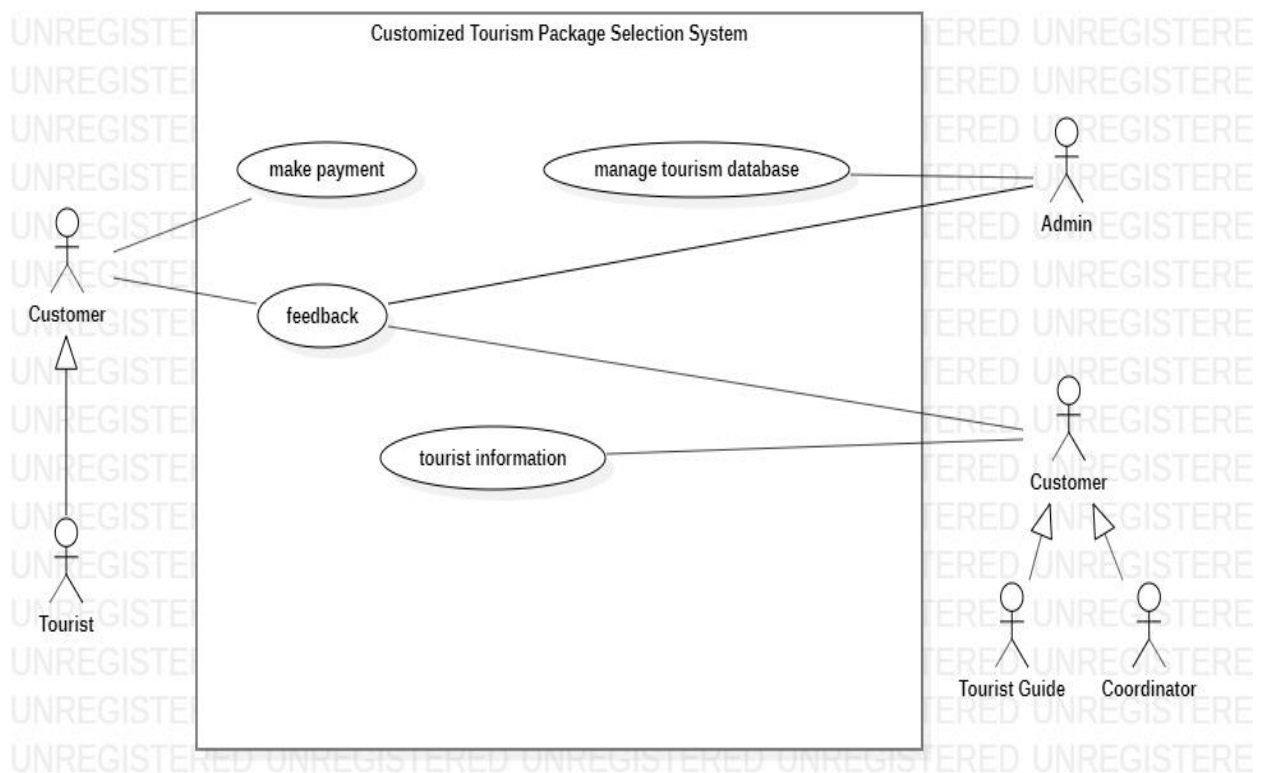
- ❖ **RESERVE TOUR:** Tourist successfully reserves a tour.
 - Tourist logs into the system.
 - Then he/she fills the necessary details.
 - Then he/she confirms the selected package.
 - And then reserves the tour.

❖ **Cancel Tour:** Tourist successfully cancels a tour.

- Tourist logs into the system.
- Then he/she cancels the tour.
- Then he/she requests for refund.
- Admin gives refund.

3)

USE CASE DIAGRAM:



DESCRIPTION:

The tourists can make the payment for their reserved tour. The customers (coordinator, tourist, tourist guide) can give their feedback regarding the journey. Coordinator and tourist guide can view the information about the tourists whom they will be accompanying. Admin manages the entire database.

EXPLANATION OF USE CASES:

- **Make Payment:**
 - **Scope:** Customized tourism package selection system
 - **Preconditions:**
 - Tourists must be logged in.
 - **Success Scenario:**
 - Tourists can make payment for the selected packages using any payment mode like credit, debit card.
- **Tourist Information:**
 - **Scope:** Customized tourism package selection system.
 - **Secondary Actor:**
 - Customer-> Tourist Guide
 - Customer-> Coordinator
 - **Preconditions:**
 - Tourist Guides and Coordinators must be logged in.
 - **Success Scenario:**
 - Tourist Guide and Coordinator can view information about the tourists assigned to them.
- **Manage tourism database:**
 - **Scope:** Customized tourism package selection system
 - **Secondary Actor:**
 - Admin
 - **Preconditions:**
 - Admin must be logged in.
 - **Success Scenario:**
 - Admin manages the tourism database.
- **Feedback:**
 - **Scope:** Customized tourism package selection system.
 - **Primary Actor**
 - Customer-> Tourist
 - **Secondary Actor:**
 - Customer-> Tourist Guide
 - Customer -> Coordinator
 - **Preconditions:**

- Customers must be logged in.
- **Success Scenario:**
 - Customers can give their feedback about their journey.

EXPLANATION OF LEVEL OF ABSTRACTION:

❖ **Make Payment:** Tourists can successfully make payment.

- Tourist logs into the system.
- And then makes the payment for the selected tour.

❖ **Feedback:** Customers can give feedback about the journey.

- Customers log into the system.
- And then give feedback about the journey

❖ **Tourist Information:** Tourist Guides and Coordinators can view tourist information

- Tourist Guides and Coordinators log into the system.
- And then they can view the tourist information

❖ **Manage Tourism Database:** Admin manages the tourism database

- Admin logs into the system
- And then can manage the tourism database