# **CA2 WRITTEN PROPOSAL**

ST1011: Application Development

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# **Objectives**

- One-stop shop that allow users to browse and purchase a wide variety of tour packages offered by different regions, countries and states.
- Users will be able to narrow down to the location of stay, the duration of stay and/or their budget for better convenience
- Provides user with details on itineraries/programmes of their selected tour for better understanding of the tour package
- Build a user-friendly platform that users can easily navigate between pages whilst in search of a tour of their preference

## **Available Tours**

State, Country	Regions
State, Country	Regions

Johor Bahru, Malaysia (South-East Asia) Kuala Lumpur, Malaysia (South-East Asia) Surabaya, Indonesia (South-East Asia) Jakarta, Indonesia (South-East Asia)

Busan, South Korea (East Asia) Seoul, South Korea (East Asia) Kyoto, Japan (East Asia) Tokyo, Japan (East Asia)

Washington D.C., USA (North America)
California, USA (North America)
Montréal, Québec, Canada (North America)
Ottawa, Canada (North America)

Munster, Ireland (Europe)
Dublin, Ireland (Europe)
Venice, Italy (Europe)
Paris, France (Europe)

## **Candidate Classes**

#### Tour Class

Used for the abstraction of tour objects in booking application

#### Methods:

tour (Default Constructor)

#### **Properties:**

tourID, tourName, tourState, tourCountry, tourRegion, tourSummary, tourItinerary, tourPrice, tourDuration, Quantity, Hotel, startDate, endDate

#### TourCollection Class

Represents a collection of tour objects; Displays all tours/selected tours based on filters

#### Methods:

GetTour, GetCart, DeleteRow, UpdateRow, InsertBK, InsertCart, ToWishlist, getTourID, Refined, getBookings

#### TourChoice Class

Used for refined search and calculating the price of each tours depending on filters. Also used to capture user's choice of tours and it's details etc.

#### Methods:

calcTotal

#### **Properties:**

getIndex, tourChosen, tourPrice, tourDuration, tourHotelStars, QuantityChosen, UnameVar, UpassVar, ItemVar, Country, Date, Duration, Region, RegionCheck, DateCheck, DurationCheck, CountryCheck, starsChosen

#### **DBTour Class**

To retrieve tour details (Price, Quantity Left, Itinerary etc.) from the database

#### Methods:

GetDataTable

### CartPayment Class

Display tours that are chosen to be purchased for booking by the users. Tours in the cart can be added, removed, or checked out for payment; Receipt is generated for each successful transaction.

#### Methods:

ReceiptItem (Item Details in Receipt)

#### Properties:

ttlCost, Payable, OrderNo

#### **User Class**

Takes in every personal information of the user to register them and display everything for verification and/or for the transactions to be completed

#### Methods:

User (Default Constructor), CartPayable (Virtual)

#### **Properties:**

userAccountType, userSalution, userName, userUsername, userPassword, userAddress, userZipCd, userPassNo, userPassED, userPhoneNo, userEmail, userDiscount

#### UserFree Class

Subclass of User Class; Does not keep payment information nor give discount

#### Methods:

UserFree (Default Constructor), CartPayable (Override)

#### UserPremium Class

Subclass of User Class; Keeps payment information, granted discounts for transaction

#### Methods:

UserPremium (Default Constructor), CartPayable (Override)

#### UserData Class

Used to update and create both user's information and premium user's payment information

#### Methods:

getUserInfo, InsertPaymentPremium, UpdateUser, createUser

### BackgroundColor Class

Used to maintain the same chosen background throughout all of the GUI

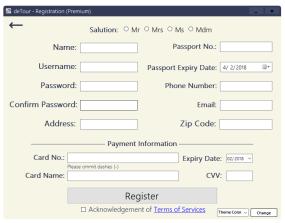
#### Properties:

chosenColor

Welcome Page



Premium Registration Page



Login Page



Profile Page



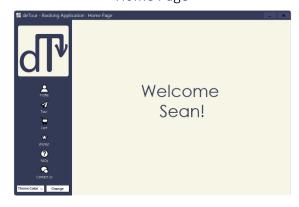
### Registration Page



Free Registration Page



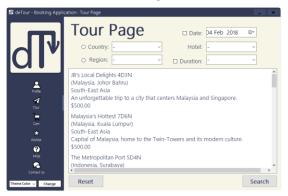
Home Page



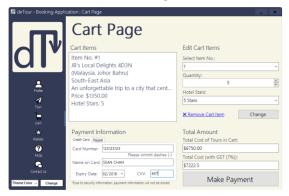
Profile Details Page



#### Tour Page



#### Cart Page



#### Receipt Page



#### Tour Detail Page



#### Wishlist Page



#### Contact Us Page



# Sitemap

