



# 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

Johor Bahru, Malaysia

Kuala Lumpur, Malaysia

Surabaya, Indonesia

Jakarta, Indonesia

Busan, South Korea

Seoul, South Korea

Kyoto, Japan

Tokyo, Japan

Washington D.C., USA

California, USA

Montréal, Québec, Canada

Ottawa, Canada

Munster, Ireland

Dublin, Ireland

Venice, Italy

Paris, France

## Regions

(South-East Asia)

(South-East Asia)

(South-East Asia)

(South-East Asia)

(East Asia)

(East Asia)

(East Asia)

(East Asia)

(North America)

(North America)

(North America)

(North America)

(Europe)

(Europe)

(Europe)

(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, userSalutation, 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

deTour - Welcome

## Welcome to deTour

LOG IN

REGISTER

Theme Color

Registration Page

deTour - Registration

Want to be a premium member?

Yes No

Theme Color

Premium Registration Page

deTour - Registration (Premium)

← Solution: ☐ Mr ☐ Mrs ☐ Ms ☐ Mdm

Name:  Passport No.:

Username:  Passport Expiry Date:

Password:  Phone Number:

Confirm Password:  Email:

Address:  Zip Code:

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Payment Information

Card No.:  Expiry Date:

Please ommit dashes (-)

Card Name:  CVV:

☐ Acknowledgement of [Terms of Services](#)

Theme Color

Free Registration Page

deTour - Registration (Free)

← Solution: ☐ Mr ☐ Mrs ☐ Ms ☐ Mdm

Name:  Passport No.:

Username:  Passport Expiry Date:

Password:  Phone Number:

Confirm Password:  Email:

Address:  Zip Code:

☐ Acknowledgement of [Terms of Services](#)

Theme Color

Login Page

deTour - Log In

← Log-In Page

Username:

Password:

Theme Color

Home Page

deTour - Booking Application: Home Page

- Home
- Tour
- Cart
- Wishlist
- FAQs
- Contact Us

Welcome Sean!

Theme Color

Profile Page

deTour - Booking Application: user's Profile Page

Profile Page

Last Order

Profile Details

Theme Color

Profile Details Page

deTour - Booking Application: user's Profile Page

← Profile Details

Name:  Passport No.:

Password:  Passport Expiry Date:

Address:  Phone Number:

Zip Code:  Email:

Theme Color

Tour Page

Tour Detail Page

Cart Page

Wishlist Page

Receipt Page

Contact Us Page

# Sitemap

