|  |
| --- |
| ICA Documentation |

|  |  |
| --- | --- |
| **Module Title: Web Apps and Services** | Module Leader: Soo Lian Kei |
| **Module Code: TU Module** |
| **Assignment Title: Event Management System** | **Deadline Date: 9th June 2020** |
| **Deadline Time: 5.00PM** |
| **Submission Method:**  Online |

|  |
| --- |
| **Message from Module Leader**  **Submission Files:**  You should save all the files (include the Design Document in PDF format, all databases and all source codes) in a Zip file.  **Submission Method:**  You should submit your project via one of the following methods:  **1. Submission via Email**  You can send an email to me, attached with your project Zip files to ***liankei.soo@firstcity.edu.my***. You should make sure that the sharing is ON and make sure that I can access/download the attached Zip file.  **2. Submission via Whatsapps**  You can send the project Zip file to me via Whatsapps @ ***011-65160287***. |

|  |  |  |
| --- | --- | --- |
| **Student Name** | **Student ID** | **Class Code** |
| Neoh Kim Seng | B1472 | BCSIS |

# Marking Guidelines (PART 1)

To achieve full marks you must achieve each aim as defined in the following tables

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Criterion** | **Excellent (85-100%)** | **Very Good (70-85%)** | **Good (55-70%)** | **Satisfactory (40-55%)** |
| **Product  (35%)** | Product executes without causing run-time exception or error.  Product meets or exceeds all of the functional requirements.  User interface and application workflow have been appropriately customised. | Product executes with appropriate bespoke pages upon error.  Product meets most functional requirements.  User interface and application workflow have some customisation. | Product executes with infrequent uncaught run-time exceptions.  Product meets all of the MUST and SHOULD functional requirements.  User interface has some customisation but application workflow is mostly scaffolded. | Product executes but has frequent uncaught run-time exceptions.  Product meets all of the MUST functional requirements.  User interface and application workflow is as scaffolded. |
| **Mark** |  | | |
| **Comments** |  | | |
| **Technique  (30%)** | ASP.NET and EntityFramework features are used extensively and successfully.  Services demonstrate correct use of HTTP with suitable end-points.  View Models and Data Transfer Objects are used appropriately.  Code design shows evidence of layering around presentation, business rules and data access.  AJAX calls are used to improve the user interface. | ASP.NET and EntityFramework features are used extensively and successfully.  Created services demonstrate successful, but not RESTful, use of HTTP with various end-points.  View Models and Data Transfer Objects are used appropriately.  Code design shows little evidence of layering.  AJAX calls are used to improve the user interface. | Most of the demonstrated features of ASP.NET and EntityFramework are used successfully.  Given HTTP services are used successfully.  Some additional View Models and Data Transfer Objects are used.  Code design shows little evidence of layering or design pattern usage.  AJAX calls are not used. | ASP.NET and EntityFramework are generally used successfully.  Given HTTP services are used successfully.  Only given View Models and Data Transfer Objects are used.  Code design shows little evidence of layering or design pattern usage.  AJAX calls are not used. |
| **Mark** |  | | |
| **Comments** |  | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Documentation  (15%)** | Code documentation identifies the key problems and challenges of the assignment and details alternative solutions to them.  Justification is given for choices made with reference to suitable knowledge sources.  Documentation is short because it is clear and concise. | Code documentation identifies the key problems and challenges of the assignment with some detail of alternative solutions.  Justification is given for choices made but without reference to suitable knowledge sources.  Documentation feels padded in places. | Code documentation identifies the key problems and challenges of the assignment.  There is no justification given for choices made.  Documentation frequently feels padded, too short or overly long. | Aspects of the code are documented, but there is no documentation that discusses the key problems or challenges of the assignment.  There is no justification given for choices made.  Documentation exists but is incomplete. |
| **Mark** |  | | |
| **Comments** |  | | |

# Marking Guidelines (PART 2)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Criterion** | **Excellent (85-100%)** | **Very Good (70-85%)** | **Good (55-70%)** | **Satisfactory (40-55%)** |
| **Testing  (20%)** | Testing plan is extensive with multiple tests to verify each functional requirement.  Test results are complete, indicating the outcome of each test and whether the functional requirement is successfully verified.  The overall evaluation is justified by the test plan and results. | Testing plan is extensive with multiple tests to verify most functional requirement.  Test results are almost completed, indicating the outcome of most test and whether the functional requirement is successfully verified.  The overall evaluation is justified by the test plan and results. | Testing plan is extensive with multiple tests to verify some functional requirement.  Test results are partially indicating the outcome of partial test and whether the functional requirement is successfully verified.  The overall evaluation is roughly justified by the test plan and results. | Testing plan is extensive with few tests to verify each functional requirement.  Test results are incomplete and not indicating the outcome of each test and whether the functional requirement is successfully verified.  The overall evaluation is less justified by the test plan and results. |
| **Mark** |  | | |
| **Comments** |  | | |

# TOTAL MARK:

Table of Contents

[Marking Guidelines (PART 1) 2](#_Toc42611197)

[Marking Guidelines (PART 2) 3](#_Toc42611198)

[TOTAL MARK: 3](#_Toc42611199)

[Test Plan 5](#_Toc42611200)

[Event Page 6](#_Toc42611201)

[Customer Page 9](#_Toc42611202)

[Guest Booking page 11](#_Toc42611203)

[Staffs Page 12](#_Toc42611204)

[Staff Booking Page 14](#_Toc42611205)

[Venues 15](#_Toc42611206)

[Results 17](#_Toc42611207)

[Brief Evaluation 18](#_Toc42611208)

# Test Plan

In this project, functional and non-functional testing methods are implemented in the test plan below. The functional testings are tested as following to MUST and SHOULD requirements. While for the non-functional testings are tested when there have error messages or exception handling is need.

The test plan is tested based on each pages. There are 6 total pages which are Events, Customers, Guest Bookings, Staffs, Staff bookings and Venues. The main functions for this project are Create Event, Create Customer, Create Guest, Create Staff, Create Staff booking and Display available venues.

Every page has its own data required to select, create, update and delete, for example in event page, adding an event needs Title, Date, Duration and Event Type in order to create an event. If any of the data are null or missing, it validate and prompt error message.

## Event Page

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Description/Purpose | Data | Expected Results | Actual Reslts |
| 1 | **Create Event** | Event Title : Your Birthday!  Date : 2/6/2020  Duration : 2:00 Type Id : CON | Event added to database | Event added to database |
| 2 | Create Event | Event Title : Blank  Date : 2/6/2020  Duration : 2:00 Type Id: CON | Event denied  (Need Title) | Event denied  (Need Title) |
| 3 | Create Event | Event Title : Your Birthday!  Date : Blank  Duration : 2:00 Type Id: CON | Event denied  (Need Date) | Event denied  (Need Date) |
| 4 | Create Event | Event Title : Your Birthday!  Date : 2/6/2020  Duration : Blank Type Id: CON | Event denied  (Need Duration) | Event denied  (Need Duration) |
| 5 | Create Event | Event Title : Your Birthday!  Date : 2/6/2020  Duration : 2:00 Type Id: Blank | Event denied  (Need Event Id) | Event denied  (Need Event Id) |
| 6 | Create Event  OverflowException occur | Event Title : Your Birthday!  Date : 2/6/2020  Duration : 2 Type Id: CON | Event denied  (Must type ‘2:00’ instead of ‘2’) | Event denied  (Must type ‘2:00’ instead of ‘2’) |
| 7 | Create Event | Event Title : Your Birthday!  Date : 2/6/2020  Duration : test Type Id: CON | Event denied  (Must type ‘2:00’ instead of ‘test’) | Event denied  (Must type ‘2:00’ instead of ‘test’) |
| 8 | **Edit Event** | Event Title : Your Birthday!  Duration : 2:00 | Event update to database | Event update to database |
| 9 | Edit Event | Event Title : Your Birthday!  Duration : test | Event denied  (Must type ‘2:00’ instead of ‘test’) | Event denied  (Must type ‘2:00’ instead of ‘test’) |
| 10 | Edit Event | Event Title : Blank  Duration : 2:00 | Event denied  (Need Title) | Event denied  (Need Title) |
| 11 | Edit Event | Event Title : Your Birthday!  Duration : Blank | Event denied  (Need Duration) | Event denied  (Need Duration) |
| 12 | Edit Event | Event Title : Your Birthday!  Duration : 2 | Event denied  (Must type ‘2:00’ instead of ‘2’) | Event denied  (Must type ‘2:00’ instead of ‘2’) |
| 13 | **Details Event** | Id : 1 | Load details of selected event which are Title, Date, Duration, Event Type name, Venue, Venue Reference, Venue Cost, List of Guests which **filtered** by Event Id and List of Staffs which **filtered** by Event Id | Load details of selected event which are Title, Date, Duration, Event Type name, Venue, Venue Reference, Venue Cost, List of Guests which **filtered** by Event Id and List of Staffs which **filtered** by Event Id |
| 14 | Details Event | Id : null or 0  (Not existing id in database) | Return not found page | Return not found page |
|  | **Reserve Venue** for an Event | Id : 1  VenueCode : FDLCK  StaffId : 1 | Venue of the Event updated in database | Venue of the Event updated in database |
|  | **Cancel** an Event | Id : blank | Return not found page | Return not found page |
|  | **Cancel** an Event | Id : 1 | Soft Delete Event  (Remove all venue and staffs data) | Soft Delete Event  (Remove all venue and staffs data) |
|  | **Cancel** an Event | Id : 0 or null  (Not existing id in database) | Return not found page | Return not found page |
|  | **Delete** an Event | Id : 1 | Delete Event | Delete Event |
|  | Delete an Event | Id : 0 or null  (Not existing id in database) | Return not found page | Return not found page |
|  | **List** all Event | Id : 1  Title : Bob’s big 50  Date : 12/3/2016  Duration : 6:00  Typed Id : PTY | Show all events from Events database | Show all events from Events database |
|  | **List** all Event | Id : 0  Title : null  Date : null  Duration : null  Typed Id : null | Page will still load but nothing is displayed ont the table in the Event Page | Page will still load but nothing is displayed on the table in the Event Page |

## Customer Page

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Description/Purpose | Data | Expected Results | Actual Reslts |
| 1 | **Create** Customer | Surname : Neoh  First Name : Kim Seng  Email : neoh@mail.com | Add Customer to database | Add Customer to database |
|  | Create Customer | Surname : Blank  First Name : Kim Seng  Email : neoh@mail.com | Customer denied  (Surname required) | Customer denied  (Surname required) |
|  | Create Customer | Surname : Neoh  First Name : Blank  Email : neoh@mail.com | Customer denied  (First name required) | Customer denied  (First name required) |
|  | Create Customer | Surname : Neoh  First Name : Kim Seng  Email : Blank | Customer denied  (Email required) | Customer denied  (Email required) |
|  | Create Customer | Surname : Neoh  First Name : Kim Seng  Email : neoh | Customer denied  (Email format invalid) | Customer denied  ( Email format invalid ) |
|  | **Edit** Customer | Surname : Neoh  First Name : Kim Seng  Email : neoh@mail.com | Update Customer to Database | Update Customer to Database |
|  | Edit Customer | Surname : Blank  First Name : Kim Seng  Email : neoh@mail.com | Customer denied  (Surname required) | Customer denied  (Surname required) |
|  | Edit Customer | Surname : Neoh  First Name : Blank  Email : neoh@mail.com | Customer denied  (First name required) | Customer denied  (First name required) |
|  | Edit Customer | Surname : Neoh  First Name : Kim Seng  Email : Blank | Customer denied  (Email required) | Customer denied  (Email required) |
|  | Edit Customer | Surname : Neoh  First Name : Kim Seng  Email : neoh | Customer denied  (Email format invalid) | Customer denied  ( Email format invalid ) |
|  | Show **Details** Customer | Id : 1 | Show the details of customer which have Surname, Firstname, Email and List of Events which **filtered** by Customer Id | Show the details of customer which have Surname, Firstname, Email and List of Events which **filtered** by Customer Id |
|  | Show **Details** Customer | Id : 0 | Return page not found | Return page not found |
|  | **List** all Customers | Customer  Id : 1  Surname : Neoh  FirstName : Kim Seng  Email : neoh@mail.com | Show all customers from Customers Table in Events database | Show all customers from Customers Table in Events database |
|  | **List** all Customers | Customer  Id : 0  Surname : null  FirstName : null  Email : null | Page will still load but nothing is displayed on the table in the Event Page | Page will still load but nothing is displayed on the table in the Event Page |
|  | Permenant **Anonymise** Customer | Id : 1  Surname : Neoh  FirstName : Kim Seng  Email : neoh@mail.com | Id : 1  Surname : null  FirstName : null  Email : [null@null.null](mailto:null@null.null) | Id : 1  Surname : null  FirstName : null  Email : [null@null.null](mailto:null@null.null) |
|  | Permenant **Delete** Customer | Id : 1  Surname : null  FirstName : null  Email : [null@null.null](mailto:null@null.null) | Delete Customer | Delete Customer |
|  | Permenant **Delete** Customer | Id : 0 | Return to not found page | Return to not found page |
|  |  |  |  |  |

## Guest Booking page

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Description/Purpose | Data | Expected Results | Actual Reslts |
| 1 | **Create** or Book a Guest Booking | CusID : 1  Event Id : 1  Attended : true | Add Guest to database | Add Guest to database |
|  | **Create** or Book a Guest Booking  (Assuming database already have this guest data) | CusID : 1  Event Id : 1  Attended : false | Show error message | Show error message |
|  | **Register** the attendance of a Guest | CusID : 1  EventId : 1  Attended : false | Update Guest data to Guests Table in Events database | Update Guest data to Guests Table in Events database |
|  | **Register** the attendance of a Guest | CusID : 0  EventId : 1  Attended : false | Return page not found | Return page not found |
|  | **Register** the attendance of a Guest | CusID : 1  EventId : 0  Attended : false | Return page not found | Return page not found |
|  | **Delete** or Remove Guest Booking | CusId : 1  EventId : 1  Attened : true | Delete Guest | Delete Guest |
|  | **Delete** or Remove Guest Booking | CusID : 0  EventId : 1  Attended : false | Return page not found | Return page not found |
|  | **Delete** or Remove Guest Booking | CusID : 1  EventId : 0  Attended : false | Return page not found | Return page not found |
|  | **List**  all the guests | Guest  CustomerId : 1  Eventid : 1  Attended : true | Show the Guests | Show the Guests |
|  | **List**  all the guests | Guest  CustomerId : 0  Eventid : 0  Attended : null | Page will still load but nothing is displayed on the table | Page will still load but nothing is displayed on the table |

## Staffs Page

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Description/Purpose | Data | Expected Results | Actual Reslts |
| 1 | **Create** Staff | Surname : Leon  First Name : Alexander  Email : leon@fcuc.com  FirstAider : true | Add Staff to database | Add Staff to database |
|  | Create Staff | Surname : Blank  First Name : Alexander  Email : leon@fcuc.com  FirstAider : true | Staff denied  (Surname required) | Staff denied  (Surname required) |
|  | Create Staff | Surname : Leon  First Name : Blank  Email : leon@fcuc.com  FirstAider : true | Staff denied  (First name required) | Staff denied  (First name required) |
|  | Create Staff | Surname : Leon  First Name : Alexander  Email : Blank  FirstAider : true | Staff denied  (Email required) | Staff denied  (Email required) |
|  | Create Staff | Surname : Leon  First Name : Alexander  Email : leon  FirstAider : true | Staff denied  (Email format invalid) | Staff denied  ( Email format invalid ) |
|  | **Edit** Staff | Surname : Leon  First Name : Da Vinci  Email : leon@fcuc.com  FirstAider : true | Update Staff to Database | Update Staff to Database |
|  | Edit Staff | Surname : Blank  First Name : Da Vinci  Email : leon@fcuc.com  FirstAider : true | Staff denied  (Surname required) | Staff denied  (Surname required) |
|  | Edit Staff | Surname : Leon  First Name : Blank  Email : leon@fcuc.com  FirstAider : true | Staff denied  (First name required) | Staff denied  (First name required) |
|  | Edit Staff | Surname : Leon  First Name : Da Vinci  Email : Blank  FirstAider : true | Staff denied  (Email required) | Staff denied  (Email required) |
|  | Edit Staff | Surname : Leon  First Name : Da Vinci  Email : leon  FirstAider : true | Staff denied  (Email format invalid) | Staff denied  ( Email format invalid ) |
|  | Show **Details** Staff | staffId : 3 | Show the details of Staff which have Surname, Firstname, Email and List of Events which **filtered** by Staff Id | Show the details of Staff which have Surname, Firstname, Email and List of Events which **filtered** by Staff Id |
|  | Show **Details** Staff | staffId : 0 or null | Return page not found | Return page not found |
|  | **List** all Staffs | Staff  staffId : 3  Surname : Leon  First Name : Da Vinci  Email : leon@fcuc.com  FirstAider : true | Show the Staff | Show the Staffs |
|  | Listall Staffs | Staff  staffId : 0  Surname : null  First Name : null  Email : null  FirstAider : null | Page will still load but nothing is displayed on the table in the Event Page | Page will still load but nothing is displayed on the table in the Event Page |
|  | Permenant **Anonymise** Staff | staffId : 3  Surname : Leon  First Name : Da Vinci  Email : leon@fcuc.com  FirstAider : true | staffId : 3  Surname : null  First Name : null  Email : null@null.null  FirstAider : false | staffId : 3  Surname : null  First Name : null  Email : null@null.null  FirstAider : false |
|  | Permenant **Delete** Staff | staffId : 3  Surname : null  First Name : null  Email : null@null.null  FirstAider : false | Delete Staff | Delete Staff |
|  | Permenant Delete Staff | staffId : 0 | Return to not found page | Return to not found page |

## Staff Booking Page

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Description/Purpose | Data | Expected Results | Actual Reslts |
| 1 | **Create** or Book a Staff Booking | StaffId : 1  Event Id : 1 | Add Staffing to database | Add Staffing to database |
|  | Create or Book a Staff Booking  (Assuming database already have this Staffing data) | StaffId : 1  Event Id : 1 | Show error message | Show error message |
|  | **Delete** or Remove Staff Booking | StaffId : 1  EventId : 1 | Delete Staffing | Delete Staffing |
|  | Deleteor Remove Staff Booking | CusID : 0  EventId : 1 | Return page not found | Return page not found |
|  | Deleteor Remove Staff Booking | CusID : 1  EventId : 0 | Return page not found | Return page not found |
|  | **List**  all the Staffings | Staffing  StaffId : 1  Eventid : 1 | Show the Staffings | Show the Staffings |
|  | List all the Staffings | Staffing  CustomerId : 0  Eventid : 0 | Page will still load but nothing is displayed on the table | Page will still load but nothing is displayed on the table |

## Venues

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Description/Purpose | Data | Expected Results | Actual Reslts |
| 1 | **Display** available Venues filtered by Event Type and date Range  Code behind:  Start Date = DateTime.MinValue  EndDate = Date.MaxValue | EventType : WED  StartDate : null  EndDate : null | Show all EventType available venues from Start Date to End Date | Show all EventType available venues from Start Date to End Date |
|  | Display available Venues filtered by Event Type and date Range | EventType : WED  StartDate : 2019-01-09  EndDate : 2020-06-25 | Show all EventType available venues from Start Date to End Date | Show all EventType available venues from Start Date to End Date |
|  | Display available Venues filtered by Event Type and date Range  Code behind :  EndDate = Date.MaxValue | EventType : WED  StartDate : 2019-01-09  EndDate : null | Show all EventType available venues from Start Date to End Date | Show all EventType available venues from Start Date to End Date |
|  | Display available Venues filtered by Event Type and date Range  Assume no available date in database | EventType : WED  StartDate : 2020-01-09  EndDate : 2020-01-09 | Show “No Data Found” Message | Show “No Data Found” Message |
|  | **Create** Event with Venue selected | Date : 2018-11-19  Type Id : WED  VenueCode : CRKHL  Venue Cost : 80.49  Title : 22 Year Now!  Duration : 2:00 | Add Event | Add Event |
|  | **Create** Event with Venue selected | Date : 2018-11-19  Type Id : WED  VenueCode : CRKHL  Venue Cost : 80.49  Title : Blank  Duration : 2:00 | Event denied  (Title required) | Event denied  (Title required) |
|  | CreateEvent with Venue selected | Date : 2018-11-19  Type Id : WED  VenueCode : CRKHL  Venue Cost : 80.49  Title : 22 Year Now!  Duration : Blank | Event denied  (Duration required) | Event denied  (Duration required) |
|  | CreateEvent with Venue selected  OverflowException occur | Date : 2018-11-19  Type Id : WED  VenueCode : CRKHL  Venue Cost : 80.49  Title : 22 Year Now!  Duration : 2 | Event denied  (Duration format HH:mm required) | Event denied  (Duration format HH:mm required) |

# Results

The test results are successfully acheived the expectation results. There are also some error handling when an Exception occur. However, there is one issue that could not solve is when first time open the project, it refuse to connect the Venue Web API service. To solve this issue, user should debug and run the ThAmCo.Venues first before running the IIS Express.

# Brief Evaluation

This project have an adequate quality as it achieved all the MUST and SHOULD requirements. It is also handled most of the exceptions. Thus, it can be a well-structure website. However, there are certainly many improvements can be apply such as the User-Friendly interactions and User Interface design can be improve. Furtheremore, it can continue the WOULD requirements to have more functionality.

Total Words : 263