Youngju Ahn 100546460

ahnyoungju@gmail.com

Testing

ICT40515 - ICTPRG527

Table of Contents

[1 Introduction 2](#_Toc517340350)

[2 Features/units to be tested 2](#_Toc517340351)

[3 Approach 2](#_Toc517340352)

[4 Test Data 2](#_Toc517340353)

[5 Test cases 3](#_Toc517340354)

[Test Case ID: 001 3](#_Toc517340355)

[Test Case ID: 002 3](#_Toc517340356)

[Test Case ID: 003 4](#_Toc517340357)

[Test Case ID: 004 5](#_Toc517340358)

[Test Case ID: 005 6](#_Toc517340359)

[Test Case ID: 006 6](#_Toc517340360)

[Test Case ID: 007 7](#_Toc517340361)

[Test Case ID: 008 7](#_Toc517340362)

[Test Case ID: 009 8](#_Toc517340363)

[Test Case ID: 010 8](#_Toc517340364)

[Test Case ID: 011 8](#_Toc517340365)

[Test Case ID: 012 9](#_Toc517340366)

[Test Case ID: 013 9](#_Toc517340367)

[6 Defect log 10](#_Toc517340368)

[7 Test Report 10](#_Toc517340369)

# 1 Introduction

The objectives are to verify that this application meets the defined requirements, performs and functions accurately, correctly handles exception handling and binary file processing. And to verify backup and restore functionalitys.

# 2 Features/units to be tested

* Navigation
* Add room details and validate each input data
* Add child details and validate each input data
* Search by room name, first name or last name
* Backup: Read data from database and save the data to binary file
* Restore: Read data from binary file and write the data to database

# 3 Approach

Perform Black Box Testing for this application.

Black Box Testing only looks at the functionality of the system without looking at the internal workings inside the program code/scripting code. Just run the programs and test the functionality.

# 4 Test Data

Room Validation

Room Name: The name should be at least 2 characters long.

Room Manager: Must enter manager name.

Child Validation

Name: The name should be at least 2 characters long.

First Name, Last Name ( of child, guardian )

Day of Birth: must write “YYYY-MM-DD” date format.

Kinder: If user select kinder, user must select one program at least.

eMail: must contain “@”

Phone number: must is number

# 5 Test cases

### Test Case ID: 001

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 001  **Executed by**: Youngju Ahn  **Execution Date**: 21/06/2017  **Scenario**: Verify to navigate all page and have no broken images from main GUI  **Test Case**: Clicking navigation items and navigating each page | | | | |
| Prerequisite | | Open main GUI | | |
| Test Data | | No text input, just navigation item clicks. | | |
| Step | Action | | Expected Result | Success? |
| 1 | Click “Room Management” | | Open room management GUI | √ |
| 2 | Click “Children Management” | | Open children management GUI | √ |
| 3 | Click “Search for a child” | | Open Search GUI | √ |
| 4 | Click “Database Management” | | Open Database management GUI | √ |
| 5 | Click “Help Document” | | Open Help Document | √ |
| 6 | Click “Exit Program” | | Close main GUI | √ |

### Test Case ID: 002

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 002  **Executed by**: Youngju Ahn  **Execution Date**: 21/06/2017  **Scenario**: Verify to add new room details  **Test Case**: Add new room | | | | |
| Prerequisite | | Open “Room Management” GUI | | |
| Test Data | | Room Name: Room 5  Room Manager: Youngju  Room Description: This room is for children after school | | |
| Step | Action | | Expected Result | Success? |
| 1 | Room 5(Room Name text field) | | Valid format | √ |
| 2 | Youngju(Room Manager text field) | | Valid format | √ |
| 3 | This room is for children after school(Room Description text field) | | Valid format | √ |

### Test Case ID: 003

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 003  **Executed by**: Youngju Ahn  **Execution Date**: 21/06/2017  **Scenario**: Verify to add new room details for DayCare  **Test Case**: Add new child | | | | |
| Prerequisite | | Open “Child Management” GUI | | |
| Test Data | | First Name: Mary  Last Name: Smith  Date Of Birth: 2017-02-10  Room Name: Room 1  Program Type: choose “Day Care”  Days per one week: 2  Need Special care? Un checked  Need food? checked  Guardian Details  Guardian1   * First Name: Mary-mom * Last Name: Mary * Email: mary@com * Phone: 0123456789 * Relationship: Mother   Guardian2   * First Name: Mary-dad * Last Name: Mary * Email: mary@com * Phone: 0123456789 * Relationship: Father | | |
| Step | Action | | Expected Result | Success? |
| 1 | Mary( First Name ) | | Valid format | √ |
| 2 | Smith( Last Name ) | | Valid format | √ |
| 3 | 2017-02-10( Date of Birth ) | | Valid format | √ |
| 4 | Room 1(Room Name) | | Valid format | √ |
| 5 | 2(Days per one week) | | Valid format | √ |
| 6 | Check box is unchecked  (Need Special care?) | | Valid format | √ |
| 7 | Check box is checked  (Need food?) | | Valid format | √ |
| 8 | Enter guardian details | | Valid format | √ |

### Test Case ID: 004

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 004  **Executed by**: Youngju Ahn  **Execution Date**: 21/06/2017  **Scenario**: Verify to add new room details for Kinder  **Test Case**: Add new child | | | | |
| Prerequisite | | Open “Child Management” GUI | | |
| Test Data | | First Name: John  Last Name: Smith  Date Of Birth: 2017-04-10  Room Name: Room 1  Program Type: choose “Kinder”  Gymnastics: unchecked  Swim: checked  Cooking: checked  Music: unchecked  Painting: unchecked  Guardian Details  Guardian1   * First Name: John-Mom * Last Name: Smith * Email: john@gmail.com * Phone: 0123456789 * Relationship: Mother   Guardian2   * First Name: John-Dad * Last Name: Mary * Email: john@gmail.com * Phone: 0123456789 * Relationship: Father | | |
| Step | Action | | Expected Result | Success? |
| 1 | John( First Name ) | | Valid format | √ |
| 2 | Smith( Last Name ) | | Valid format | √ |
| 3 | 2017-04-10( Date of Birth ) | | Valid format | √ |
| 4 | Room 1(Room Name) | | Valid format | √ |
| 5 | Check box is unchecked  (Gymnastics) | | Valid format | √ |
| 6 | Check box is unchecked  (Swim) | | Valid format | √ |
| 7 | Check box is unchecked  (Cooking) | | Valid format | √ |
| 8 | Check box is unchecked  (Music) | | Valid format | √ |
| 9 | Check box is unchecked  (Painting) | | Valid format | √ |
| 10 | Enter guardian details | | Valid format | √ |

### Test Case ID: 005

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 005  **Executed by**: Youngju Ahn  **Execution Date**: 21/06/2017  **Scenario**: Verify to update room  **Test Case**: Update room details | | | | |
| Prerequisite | | Input validated Room details ( in test case 002 )  OPEN Room Management GUI | | |
| Test Data | | Manager Name: Kristine | | |
| Step | Action | | Expected Result | Success? |
| 1 | Click Room 5 in Table | | Room 5 Data is displayed in Room details | √ |
| 2 | Change Manage Name  From: Youngju  To: Kristine | | Valid Data | √ |
| 3 | Click “Edit Record” | | Display dialog box  “Room Details Updated” | √ |
| 4 | No action.  Check Room 5 details in Table | | The manager of Room 5 is changed to Kristine. | √ |

### Test Case ID: 006

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 006  **Executed by**: Youngju Ahn  **Execution Date**: 21/06/2017  **Scenario**: Verify to delete room  **Test Case**: Delete room | | | | |
| Prerequisite | | Input validated Room details ( in test case 002 )  OPEN Room Management GUI | | |
| Test Data | | No text input, just Delete Record clicks. | | |
| Step | Action | | Expected Result | Success? |
| 1 | Click Room 5 in table | | Display Room 5 details in Room Details | √ |
| 2 | Click “Delete Record” | | Display dialog box  “Room Deleted” | √ |
| 3 | No action.  Check Room 5 details in Table | | Disappear Room 5 details in Table | √ |

### Test Case ID: 007

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 007  **Executed by**: Youngju Ahn  **Execution Date**: 21/06/2017  **Scenario**: Verify to update child details  **Test Case**: Update Child | | | | |
| Prerequisite | | Input validated child details ( in test case 003 )  OPEN Children Management GUI | | |
| Test Data | | Guardian1 Phone Number: 0451123456 | | |
| Step | Action | | Expected Result | Success? |
| 1 | Click Mary-Smith in Table | | Mary Smith Data is displayed in Child details | √ |
| 2 | Change Guardian’s Phone number  From: 0123456789  To: 0451123456 | | Valid Data | √ |
| 3 | Click “Edit Record” | | Display dialog box  “Child Details Updated” | √ |
| 4 | Click Mary-Smith in Table | | Mary Smith Data is displayed in Child details | √ |
| 4 | No action.  Check Mary-Smith details in Table | | The phone number of guardian is changed to 0451123456. | √ |

### Test Case ID: 008

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 008  **Executed by**: Youngju Ahn  **Execution Date**: 21/06/2017  **Scenario**: Verify to delete child  **Test Case**: Delete Child | | | | |
| Prerequisite | | Input validated child details ( in test case 003 )  OPEN Children Management GUI | | |
| Test Data | | No text input, just Delete Record clicks. | | |
| Step | Action | | Expected Result | Success? |
| 1 | Click “Mary-Smith” in table | | Display “Mary-Smith” details in Child Details | √ |
| 2 | Click “Delete Record” | | Display dialog box  “Child Deleted” | √ |
| 3 | No action.  Check “Mary-Smith” details in Table | | Disappear “Mary-Room” details in Table | √ |

### Test Case ID: 009

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 009  **Executed by**: Youngju Ahn  **Execution Date**: 21/06/2017  **Scenario**: Verify to search by room name  **Test Case**: Search By Room Name | | | | |
| Prerequisite | | Input some data to search  Open Search GUI | | |
| Test Data | | No text input, just Search button clicks | | |
| Step | Action | | Expected Result | Success? |
| 1 | Select “Room 3”(Room Name) | | Room 3 selected | √ |
| 2 | Click Search button | | Displayed children details in only Room 3 | √ |

### Test Case ID: 010

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 010  **Executed by**: Youngju Ahn  **Execution Date**: 21/06/2017  **Scenario**: Verify to search by child last name  **Test Case**: Search By Last Name | | | | |
| Prerequisite | | Input some data to search  Open Search GUI | | |
| Test Data | | No text input, just Search button clicks | | |
| Step | Action | | Expected Result | Success? |
| 1 | Select child radio button | | Display child panel | √ |
| 2 | Select “Last Name”(Search By) | | Last Name selected | √ |
| 3 | Enter “Smith” | | Entered data | √ |
| 4 | Click Search button | | Displayed children details who have last name as Smith | √ |

### Test Case ID: 011

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 011  **Executed by**: Youngju Ahn  **Execution Date**: 28/03/2018  **Scenario**: Verify to backup Database. If user click backup database, then create two binary file “Room.bin” and “Child.bin”  **Test Case**: Backup | | | | |
| Prerequisite | | Input some data for backup  Open Database Management GUI | | |
| Test Data | | No text input, just button clicks | | |
| Step | Action | | Expected Result | Success? |
| 1 | Click “Backup Database” | | Clicked | √ |
| 2 | No action.  Check if two files(Room.bin, Child.bin) are created in Home directory | | Create two files. | √ |

### Test Case ID: 012

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 012  **Executed by**: Youngju Ahn  **Execution Date**: 21/06/2017  **Scenario**: Verify to restore to Database  **Test Case**: Restore | | | | |
| Prerequisite | | Execute Test case 011.  Two files(Room.bin, Child.bin) exist in home directory | | |
| Test Data | | No text input, just button clicks | | |
| Step | Action | | Expected Result | Success? |
| 1 | Click “Restore Database” | | Display confirm dialog box | √ |
| 2 | Display “Confirm deletion”  Click “Yes” | | Display “Restore success” dialog box | √ |

### Test Case ID: 013

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 013  **Executed by**: Youngju Ahn  **Execution Date**: 21/06/2017  **Scenario**: Verify to open Help Document.pdf  **Test Case**: Help Document | | | | |
| Prerequisite | | Open ChildCare Main GUI | | |
| Test Data | | No text input, just button clicks | | |
| Step | Action | | Expected Result | Success? |
| 1 | Click “Help Document” | | Open “Help Document.pdf” | √ |

# 6 Defect log

1. Test Case: 005 Step: 2

Expected Issue: When a user update room details, the user can change room name. However, room name is a primary key in tblRoom. The room name should not be changed.

How to fix: set false in Room Name JTextfiled isEditable.

1. Test Case: 007 Step: 2

Expected Issue: When a user update room details, the user can change first name, last name and Date of Birth. However, the 3 fields are primary keys in tblChild. The 3 columns should not be changed.

How to fix: set false in First Name, Last Name, and Date of Birth JTextfiled isEditable.

# 7 Test Report

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Description** | **Result** |
| 005 | No issue | √ |
| 007 | No issue | √ |
|  |  |  |
|  |  |  |