Child Management System on Salesforce for CRM Charity

Test Traceability

By

Dolawat Wannapira 572115022

Suradis Sutampang 572115058

Department of Software Engineering

College of Arts, Media and Technology

Chiang Mai University

**Project Advisor**

Dr. Chartchai Doungsa-ard

**Document History**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Document Name | Version | Status | Date | Viewable | Editable | Responsible |
| Test Traceability V 1.0 | - **Add Chapter 1**  - **Add Chapter 2**  - **Add Chapter 3** | Released | 27/07/2017 | DO,SU,CC | DO,SU | DO,SU |

DO = DOLAWAT WANNAPIRA

SU = SURADIS SUTAMPANG

CC = DR. CHARTCHAI DOUNGSA-ARD

**Table of Contents**

[Chapter One | Introduction 4](#_Toc488977019)

[1.1 Purpose 4](#_Toc488977020)

[1.2 Scope 4](#_Toc488977021)

[1.3 Acronyms and Definitions 4](#_Toc488977022)

[1.4 Reference 5](#_Toc488977023)

[Chapter Two | Test Procedure 6](#_Toc488977024)

[2.1 Test Objectives 6](#_Toc488977025)

[2.2 Test Duration 6](#_Toc488977026)

[2.3 Test Responsibility 6](#_Toc488977027)

[2.4 Test Strategy 7](#_Toc488977028)

[2.5 Result of Testing 7](#_Toc488977029)

[2.6 Test Environment 7](#_Toc488977030)

[Chapter Three | System Test 8](#_Toc488977031)

[System Test Case 01 (STC-01): 8](#_Toc488977032)

[System Test Case 02 (STC-02): 14](#_Toc488977033)

[System Test Case 03 (STC-03): 20](#_Toc488977034)

[System Test Case 04 (STC-04): 22](#_Toc488977035)

# Chapter One | Introduction

## 1.1 Purpose

The test document of Child Management System on Salesforce for CRM Charity is established to guarantees that the system will work as it is expected by conducting tests that follows the test plan. The result will be recorded and documented within another document name Test Record.

## 1.2 Scope

The scope of this document includes the test planning and test data, which will cover for the system test. Child Management System on Salesforce for CRM Charity will be tested with white-box and black-box testing techniques and record the test results in the Test Record document.

## 1.3 Acronyms and Definitions

**Acronyms**

IEEE: Institute of Electrical and Electronics Engineers SRS Software

CMS: Child Management System on Salesforce for CRM Charity

ID: Identifier  
No.: Number(s)  
P/F: Pass/Fail

STC: System Test Case

UC: Use Case

URS: User Requirement Specification

**Definitions**

**1) Requirement** “A condition or capability that must be met or possessed by a system or system component to satisfy a contract, standard, specification or other formally imposed documents**”** [IEEE90]

**2) Specification** “A document that specifies, in a complete, precise, verifiable manner, the requirements, design, behavior, or other characteristics of a system or component, and often, the procedures for determining whether these provision have been satisfied.” [IEEE90]

**3) System “**Computer programs, procedure and associated documentation and data pertain to the operation of a computer system**”** [IEEE90]

**4) Test** An activity in which a system or component is executed under specified conditions, the results are observed or recorded, and an evaluation is made of some aspect of the system or component. [IEEE90]

**5) Test Script** a set of instructions that will be performed on the system under test to test that the system functions as expected. [wikipedia]

**6) Unit testing** Testing of individual hardware or software units or groups of related units. [IEEE90]

**7) User** refers to all users of the system or in other word, the administrator of foundation for children

## 1.4 Reference

IEEE 90: IEEE Standard Glossary of Software Engineering Terminology

<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=159342&isnumber=4148>

Wikipedia: Test Script  
 <https://en.wikipedia.org/wiki/Test_script>

# Chapter Two | Test Procedure

## 2.1 Test Objectives

The objectives of testing for the Child Management System on Salesforce for CRM Charity are:

1. Detect all errors or faults to prevent failure

2. Fix errors or faults that were detected

3. Prove that all the functions work correctly

4. Establish confidence for the team members

## 2.2 Test Duration

|  |  |
| --- | --- |
| Progress | Date and Duration |
| Progress Report 1 | Perform Date: 27 July 2017 Duration: 3 days |

## 2.3 Test Responsibility

|  |  |
| --- | --- |
| Item | Responsibility |
| System test of CMS | DO,SU |
| Record system test of CMS | DO,SU |

## 2.4 Test Strategy

1. Define the test case
2. Prepare the test data
3. Determine the expected output
4. Conduct the test  
   4.1 Satisfy all preconditions  
   4.2 Follow the test script. When encountering a choice a) or b), choose according to the Test script no. in each Test case.
5. Record the result

## 2.5 Result of Testing

The result that will be recorded from the outcome will include

* Actual Result : the real outcome after conducting the test
* P/F : pass or fail criteria

Pass: The actual result is the same as the expected output

Fail: The actual result is different from the expected output

## 2.6 Test Environment

**Hardware**

1. MacBook Pro (13-inch, 2016, Two Thunderbolt 3 ports)  
 - Processor: 2.0GHz Intel® Core™ i5

- Memory: 16 GB 1867 MHz LPDDR3

- Graphics: Intel Iris Graphics 540 1536 MB

1. DELL Inspiron 15R  
   - Processor: Intel® Core™ i7 3537U Processor

- Memory: 8GB DDR3L MHz SDRAM

- Graphics: NVIDIA® GeForce® GTX 965M with 2GB GDDR5

**Software**

1. Operating System: OS X High Sierra 10.13 Beta (17A306f)

2. Operating System: Windows 10

3. Google Chrome

4. Safari

# Chapter Three | System Test

**URS-01:** Create Baan Tantawan children development

System Test Case 01 (STC-01):The user can create Baan Tantawan children development

**Test Flow:**

|  |  |
| --- | --- |
| Step | Description |
| 1 | Selects the children in children information page. |
| 2 | Clicks” New พัฒนาการเด็ก” button on child information page. |
| 3 | Inputs data including “วันที่ตรวจประเมิน (Evaluation date)”, “ส่วนสูง ณ วันตรวจประเมิน (Height)”, “น้ำหนัก ณ วันตรวจประเมิน (Weight)”, “เส้นรอบศีรษะ ณ วันตรวจประเมิน (Head circumference)”, “ผลการพัฒนากล้ามเนื้อมัดเล็ก (Fine motor)”, “ผลการพัฒนากล้ามเนื้อมัดใหญ่ (Gross motor)”, “ผลการพัฒนาด้านภาษา และสติปัญญา ( Intellectual and Language development)”, “ผลการพัฒนาด้านสังคม (Social development)”, “ผลการพัฒนาการช่วยเหลือตนเอง (Self-sufficient development)”, “ผลการพัฒนาอารมณ์ และจิตใจ (Mood development)”, “พฤติกรรมด้านบวก (Positive behavior)”, “พฤติกรรมด้านลบ (Negative behavior)”, “การปรับพฤติกรรม (Behavior modification)”, “ผลการปรับพฤติกรรม (Behavior modification result)” , “แผนการช่วยเหลือ (Helping plan)”. |
| 4 | Clicks “Save” button. |
| 5 | See result. |

**Test Case:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Input** | | **Excepted Result** |
| 01 | Test that system can create child development when user input all valid data in step 3 | Date of evaluate | 22/07/2560 | Redirect to the created child development information and add create history to the created child development |
| Weight | 32.5 |
| Height | 123 |
| Head circumference | 40 |
| Family status | Normal |
| Fine motor development | Good strength |
| Gross motor development | Normal strength |
| Intellectual development | Normal intelligent |
| Social development | Anti-social |
| Self-sufficient development | Good |
| Mood development | Good |
| Positive behavior | Have concentrate |
| Negative behavior | Negative Thinking |
| Behavior modification | Tell bravery adventure tales |
| Result of behavior modification | Better positive thinking |
| Helping plan | Have to take care about his social like trying to talk to him |
| 02 | Test that system cannot create child development when user input invalid date of evaluate in step 3. | Date of evaluate | asdasd | Show message “Invalid Date.” |
| Weight | 32.5 |
| Height | 123 |
| Head circumference | 40 |
| Family status | Normal |
| Fine motor development | Good strength |
| Gross motor development | Normal strength |
| Intellectual development | Normal intellectual |
| Social development | Anti-social |
| Self-sufficient development | Good |
| Mood development | Good |
| Positive behavior | Have concentrate |
| Negative behavior | Negative Thinking |
| Behavior modification | Tell bravery adventure tales |
| Result of behavior modification | Better positive thinking |
| Helping plan | Have to take care about his social like trying to talk to him |
| 03 | Test that system cannot create child development when user does not input date of evaluate in step 3. | Date of evaluate | - | Show message “You must enter a value” |
| Weight | 32.5 |
| Height | 123 |
| Head circumference | 40 |
| Family status | Normal |
| Fine motor development | Good strength |
| Gross motor development | Normal strength |
| Intellectual development | Normal intellectual |
| Social development | Anti-social |
| Self-sufficient development | Good |
| Mood development | Good |
| Positive behavior | Have concentrate |
| Negative behavior | Negative Thinking |
| Behavior modification | Tell bravery adventure tales |
| Result of behavior modification | Better positive thinking |
| Helping plan | Have to take care about his social like trying to talk to him |
| 04 | Test that system cannot create child development when user input invalid weight in step 3. | Date of evaluate | 22/07/2560 | Show message “Invalid Number” |
| Weight | asdasd |
| Height | 123 |
| Head circumference | 40 |
| Family status | Normal |
| Fine motor development | Good strength |
| Gross motor development | Normal strength |
| Intellectual development | Normal intellectual |
| Social development | Anti-social |
| Self-sufficient development | Good |
| Mood development | Good |
| Positive behavior | Have concentrate |
| Negative behavior | Negative Thinking |
| Behavior modification | Tell bravery adventure tales |
| Result of behavior modification | Better positive thinking |
| Helping plan | Have to take care about his social like trying to talk to him |
| 05 | Test that system cannot create child development when user does not input weight in step 3. | Date of evaluate | 22/07/2560 | Show message “Invalid Number” |
| Weight | - |
| Height | 123 |
| Head circumference | 40 |
| Family status | Normal |
| Fine motor development | Good strength |
| Gross motor development | Normal strength |
| Intellectual development | Normal intellectual |
| Social development | Anti-social |
| Self-sufficient development | Good |
| Mood development | Good |
| Positive behavior | Have concentrate |
| Negative behavior | Negative Thinking |
| Behavior modification | Tell bravery adventure tales |
| Result of behavior modification | Better positive thinking |
| Helping plan | Have to take care about his social like trying to talk to him |
| 06 | Test that system cannot create child development when user does not input height in step 3. | Date of evaluate | 22/07/2560 | Show message “You must enter a value” |
| Weight | 32.5 |
| Height | - |
| Head circumference | 40 |
| Family status | Normal |
| Fine motor development | Good strength |
| Gross motor development | Normal strength |
| Intellectual development | Normal intellectual |
| Social development | Anti-social |
| Self-sufficient development | Good |
| Mood development | Good |
| Positive behavior | Have concentrate |
| Negative behavior | Negative Thinking |
| Behavior modification | Tell bravery adventure tales |
| Result of behavior modification | Better positive thinking |
| Helping plan | Have to take care about his social like trying to talk to him |
| 07 | Test that system cannot create child development when user input invalid height in step 3. | Date of evaluate | 22/07/2560 | Show message “Invalid Number” |
| Weight | 32.5 |
| Height | asdasd |
| Head circumference | 40 |
| Family status | Normal |
| Fine motor development | Good strength |
| Gross motor development | Normal strength |
| Intellectual development | Normal intellectual |
| Social development | Anti-social |
| Self-sufficient development | Good |
| Mood development | Good |
| Positive behavior | Have concentrate |
| Negative behavior | Negative Thinking |
| Behavior modification | Tell bravery adventure tales |
| Result of behavior modification | Better positive thinking |
| Helping plan | Have to take care about his social like trying to talk to him |
| 08 | Test that system cannot create child development when user input invalid head circumference in step 3. | Date of evaluate | 22/07/2560 | Show message “Invalid Number” |
| Weight | 32.5 |
| Height | 123 |
| Head circumference | asd |
| Family status | Normal |
| Fine motor development | Good strength |
| Gross motor development | Normal strength |
| Intellectual development | Normal intelligent |
| Social development | Anti-social |
| Self-sufficient development | Good |
| Mood development | Good |
| Positive behavior | Have concentrate |
| Negative behavior | Negative Thinking |
| Behavior modification | Tell bravery adventure tales |
| Result of behavior modification | Better positive thinking |
| Helping plan | Have to take care about his social like trying to talk to him |
| 09 | Test that system cannot create child development when user does not input head circumference in step 3. | Date of evaluate | 22/07/2560 | Show message “You must enter a value” |
| Weight | - |
| Height | 123 |
| Head circumference | - |
| Family status | Normal |
| Fine motor development | Good strength |
| Gross motor development | Normal strength |
| Intellectual development | Normal intelligent |
| Social development | Anti-social |
| Self-sufficient development | Good |
| Mood development | Good |
| Positive behavior | Have concentrate |
| Negative behavior | Negative Thinking |
| Behavior modification | Tell bravery adventure tales |
| Result of behavior modification | Better positive thinking |
| Helping plan | Have to take care about his social like trying to talk to him |

**URS-02:** Edit Baan Tantawan children development

System Test Case 02 (STC-02):The user can create Baan Tantawan children development

**Test Flow:**

|  |  |
| --- | --- |
| Step | Description |
| 1 | Selects the children in children information page. |
| 2 | Clicks “Edit” button on child development information page. |
| 3 | Edits data including “วันที่ตรวจประเมิน (Evaluation date)”, “ส่วนสูง ณ วันตรวจประเมิน (Height)”, “น้ำหนัก ณ วันตรวจประเมิน (Weight)”, “เส้นรอบศีรษะ ณ วันตรวจประเมิน (Head circumference)”, “ผลการพัฒนากล้ามเนื้อมัดเล็ก (Fine motor)”, “ผลการพัฒนากล้ามเนื้อมัดใหญ่ (Gross motor)”, “ผลการพัฒนาด้านภาษา และสติปัญญา ( Intellectual and Language development)”, “ผลการพัฒนาด้านสังคม (Social development)”, “ผลการพัฒนาการช่วยเหลือตนเอง (Self-sufficient development)”, “ผลการพัฒนาอารมณ์ และจิตใจ (Mood development)”, “พฤติกรรมด้านบวก (Positive behavior)”, “พฤติกรรมด้านลบ (Negative behavior)”, “การปรับพฤติกรรม (Behavior modification)”, “ผลการปรับพฤติกรรม (Behavior modification result)” , “แผนการช่วยเหลือ (Helping plan)”. |
| 4 | Clicks “Save” button. |
| 5 | See result. |

**Data for test:**

|  |  |  |  |
| --- | --- | --- | --- |
| Child name | Napat khamdee | Child development ID | CHILD\_DEV-13 |
| Date of Evaluate | 22/10/2560 | Weight | 32.5 |
| Height | 123 | Head circumference | 40 |
| Family status | Normal | Fine motor development | Good strength |
| Gross motor development | Normal strength | Intellectual development | Normal intelligent |
| Social development | Anti-social | Self-sufficient development | Good |
| Mood development | Good | Positive behavior | Have concentrate |
| Negative behavior | Negative thinking | Behavior modification | Tell bravery adventure tales |
| Result of behavior modification | Better positive thinking | Helping plan | Have to take care about his social like trying to talk to him |

**Test Case:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Input** | | **Excepted Result** |
| 01 | Test that system can update child development when user clicks “Napat Khamdee” in step1 then user click “Edit” in front of “CHILD\_DEV-13” in step 2. After that, user input all valid data in step 3. | Date of evaluate | 22/07/2560 | Redirect to the updated child development information and add update history to the updated child development |
| Weight | 32.5 |
| Height | 125 |
| Head circumference | 40 |
| Family status | Normal |
| Fine motor development | Good strength |
| Gross motor development | Normal strength |
| Intellectual development | Normal intelligent |
| Social development | Anti-social |
| Self-sufficient development | Good |
| Mood development | Good |
| Positive behavior | Have concentrate |
| Negative behavior | Negative Thinking |
| Behavior modification | Tell bravery adventure tales |
| Result of behavior modification | Better positive thinking |
| Helping plan | Have to take care about his social like trying to talk to him |
| 02 | Test that system cannot update child development when user clicks “Napat Khamdee” in step1 then user click “Edit” in front of “CHILD\_DEV-13” in step 2. After that, user input invalid date in step 3. | Date of evaluate | asdasdasd | Show message “Invalid Date.” |
| Weight | 32.5 |
| Height | 125 |
| Head circumference | 40 |
| Family status | Normal |
| Fine motor development | Good strength |
| Gross motor development | Normal strength |
| Intellectual development | Normal intelligent |
| Social development | Anti-social |
| Self-sufficient development | Good |
| Mood development | Good |
| Positive behavior | Have concentrate |
| Negative behavior | Negative Thinking |
| Behavior modification | Tell bravery adventure tales |
| Result of behavior modification | Better positive thinking |
| Helping plan | Have to take care about his social like trying to talk to him |
| 03 | Test that system cannot update child development when user clicks “Napat Khamdee” in step1 then user click “Edit” in front of “CHILD\_DEV-13” in step 2. After that, user does not input date of evaluate in step 3. | Date of evaluate | 22/07/2560 | Show message “You must enter a value” |
| Weight | 32.5 |
| Height | 125 |
| Head circumference | 40 |
| Family status | Normal |
| Fine motor development | Good strength |
| Gross motor development | Normal strength |
| Intellectual development | Normal intelligent |
| Social development | Anti-social |
| Self-sufficient development | Good |
| Mood development | Good |
| Positive behavior | Have concentrate |
| Negative behavior | Negative Thinking |
| Behavior modification | Tell bravery adventure tales |
| Result of behavior modification | Better positive thinking |
| Helping plan | Have to take care about his social like trying to talk to him |
| 04 | Test that system cannot update child development when user clicks “Napat Khamdee” in step1 then user click “Edit” in front of “CHILD\_DEV-13” in step 2. After that, user input invalid height in step 3. | Date of evaluate | 25/07/2560 | Show message “Invalid number” |
| Weight | 32.5 |
| Height | asdsad |
| Head circumference | 40 |
| Family status | Normal |
| Fine motor development | Good strength |
| Gross motor development | Normal strength |
| Intellectual development | Normal intelligent |
| Social development | Anti-social |
| Self-sufficient development | Good |
| Mood development | Good |
| Positive behavior | Have concentrate |
| Negative behavior | Negative Thinking |
| Behavior modification | Tell bravery adventure tales |
| Result of behavior modification | Better positive thinking |
| Helping plan | Have to take care about his social like trying to talk to him |
| 05 | Test that system cannot update child development when user clicks “Napat Khamdee” in step1 then user click “Edit” in front of “CHILD\_DEV-13” in step 2. After that, user does not input height in step 3. | Date of evaluate | 25/07/2560 | Show message “You must enter a value” |
| Weight | 32.5 |
| Height | - |
| Head circumference | 40 |
| Family status | Normal |
| Fine motor development | Good strength |
| Gross motor development | Normal strength |
| Intellectual development | Normal intelligent |
| Social development | Anti-social |
| Self-sufficient development | Good |
| Mood development | Good |
| Positive behavior | Have concentrate |
| Negative behavior | Negative Thinking |
| Behavior modification | Tell bravery adventure tales |
| Result of behavior modification | Better positive thinking |
| Helping plan | Have to take care about his social like trying to talk to him |
| 06 | Test that system cannot update child development when user clicks “Napat Khamdee” in step1 then user click “Edit” in front of “CHILD\_DEV-13” in step 2. After that, user input invalid weight in step 3. | Date of evaluate | 25/07/2560 | Show message “Invalid number” |
| Weight | asdq |
| Height | 125 |
| Head circumference | 40 |
| Family status | Normal |
| Fine motor development | Good strength |
| Gross motor development | Normal strength |
| Intellectual development | Normal intelligent |
| Social development | Anti-social |
| Self-sufficient development | Good |
| Mood development | Good |
| Positive behavior | Have concentrate |
| Negative behavior | Negative Thinking |
| Behavior modification | Tell bravery adventure tales |
| Result of behavior modification | Better positive thinking |
| Helping plan | Have to take care about his social like trying to talk to him |
| 07 | Test that system cannot update child development when user clicks “Napat Khamdee” in step1 then user click “Edit” in front of “CHILD\_DEV-13” in step 2. After that, user does not input weight in step 3. | Date of evaluate | 25/07/2560 | Show message “You must enter a value” |
| Weight | - |
| Height | 125 |
| Head circumference | 40 |
| Family status | Normal |
| Fine motor development | Good strength |
| Gross motor development | Normal strength |
| Intellectual development | Normal intelligent |
| Social development | Anti-social |
| Self-sufficient development | Good |
| Mood development | Good |
| Positive behavior | Have concentrate |
| Negative behavior | Negative Thinking |
| Behavior modification | Tell bravery adventure tales |
| Result of behavior modification | Better positive thinking |
| Helping plan | Have to take care about his social like trying to talk to him |
| 08 | Test that system cannot update child development when user clicks “Napat Khamdee” in step1 then user click “Edit” in front of “CHILD\_DEV-13” in step 2. After that, user input invalid head circumference in step 3. | Date of evaluate | 25/07/2560 | Show message “Invalid number” |
| Weight | 32.5 |
| Height | 125 |
| Head circumference | I have a plan |
| Family status | Normal |
| Fine motor development | Good strength |
| Gross motor development | Normal strength |
| Intellectual development | Normal intelligent |
| Social development | Anti-social |
| Self-sufficient development | Good |
| Mood development | Good |
| Positive behavior | Have concentrate |
| Negative behavior | Negative Thinking |
| Behavior modification | Tell bravery adventure tales |
| Result of behavior modification | Better positive thinking |
| Helping plan | Have to take care about his social like trying to talk to him |
| 09 | Test that system cannot update child development when user clicks “Napat Khamdee” in step1 then user click “Edit” in front of “CHILD\_DEV-13” in step 2. After that, user does not input head circumference in step 3. | Date of evaluate | 25/07/2560 | Show message “You must enter a value” |
| Weight | 32.5 |
| Height | 125 |
| Head circumference | - |
| Family status | Normal |
| Fine motor development | Good strength |
| Gross motor development | Normal strength |
| Intellectual development | Normal intelligent |
| Social development | Anti-social |
| Self-sufficient development | Good |
| Mood development | Good |
| Positive behavior | Have concentrate |
| Negative behavior | Negative Thinking |
| Behavior modification | Tell bravery adventure tales |
| Result of behavior modification | Better positive thinking |
| Helping plan | Have to take care about his social like trying to talk to him |

**URS-03:** View Baan Tantawan children development

System Test Case 03 (STC-03):The user can create Baan Tantawan children development

**Test Flow:**

|  |  |
| --- | --- |
| Step | Description |
| 1 | Selects the children in children information page. |
| 2 | Clicks development record. |
| 3 | See result. |

**Data for test:**

|  |  |  |  |
| --- | --- | --- | --- |
| Child name | Napat khamdee | Child development ID | CHILD\_DEV-13 |
| Date of Evaluate | 22/10/2560 | Weight | 32.5 |
| Height | 123 | Head circumference | 40 |
| Family status | Normal | Fine motor development | Good strength |
| Gross motor development | Normal strength | Intellectual development | Normal intelligent |
| Social development | Anti-social | Self-sufficient development | Good |
| Mood development | Good | Positive behavior | Have concentrate |
| Negative behavior | Negative thinking | Behavior modification | Tell bravery adventure tales |
| Result of behavior modification | Better positive thinking | Helping plan | Have to take care about his social like trying to talk to him |

**Test Case:**

|  |  |  |
| --- | --- | --- |
| **Case** | **Description** | **Excepted Result** |
| 01 | Test that system can view Child Development  When user clicks “Napat Khamdee” in step1then click “CHILD\_DEV-13” in step 2. | Show information of children development including  Child name: Napat Khamdee  Date of evaluate: 22/10/2560  Weight: 32.5  Height: 123  Head circumference: 40  Family status: Normal  Fine motor development: Good strength  Goss motor development: Normal strength  Intellectual development: Normal Intelligent  Social development: Anti-social  Self-sufficient development: Good  Mood development: Good  Positive behavior: Have concentrate  Negative behavior: Negative thinking  Behavior modification: Tell bravery adventure tales  Result of behavior modification: Better positive thinking  Helping plan: Have to take care about his social like trying to talk to him |
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**URS-04:** Delete Baan Tantawan children development

System Test Case 04 (STC-04):The user can create Baan Tantawan children development

**Test Flow:**

|  |  |
| --- | --- |
| Step | Description |
| 1 | Selects the children in children information page. |
| 2 | Clicks “Del” button on child development information page. |
| 3 | Clicks confirms button. |
| 4 | See result. |

**Data for test:**

|  |  |  |  |
| --- | --- | --- | --- |
| Child name | Napat khamdee | Child development ID | CHILD\_DEV-13 |
| Date of Evaluate | 22/10/2560 | Weight | 32.5 |
| Height | 123 | Head circumference | 40 |
| Family status | Normal | Fine motor development | Good strength |
| Gross motor development | Normal strength | Intellectual development | Normal intelligent |
| Social development | Anti-social | Self-sufficient development | Good |
| Mood development | Good | Positive behavior | Have concentrate |
| Negative behavior | Negative thinking | Behavior modification | Tell bravery adventure tales |
| Result of behavior modification | Better positive thinking | Helping plan | Have to take care about his social like trying to talk to him |

**Test Case:**

|  |  |  |
| --- | --- | --- |
| **Case** | **Description** | **Excepted Result** |
| 01 | Test that system can delete child development when user clicks “Napat Khamdee” in step1 then user click “Del” in front of “CHILD\_DEV-13” in step 2. | Redirect to the deleted child development’s child information. |
|
|
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|