Test Report: System Verification and Validation Report for Sun Catcher

Sharon (Yu-Shiuan) Wu

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1 Revision History

Date	Version	Notes
2019/12/21	1.0	First Version
Date 2	1.1	Notes

2 Symbols, Abbreviations and Acronyms

symbol	description
T	Test

[symbols, abbreviations or acronyms – you can reference the SRS tables if needed —SS]

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This document is the test report of the system testing for Sun Catcher

3 Functional Requirements Evaluation

1. InputReading-id1
   This is the testing for ensuring the software has the ability to read the input value P_{A_h} and P_{A_w}. The the input can be find under the path "../src/tiltAngPro/test/tests"
   Input File Name : "id1.inputReading"
   Output File Nmae: "id1.inputReading.golden"

id	**Input**	**Output**
id1.1	(1455, 665)	(1455, 665)
id1.2	(1455.54, 665.13)	(1455.54, 665.13)

Table 1: Actual Input and Expected Output

   Content:

.inputReading
id1_1
Input 1455.0 Absolute Erros = 0.0
Input 665.0 Absolute Erros = 0.0
id1_2
Input 1455.54 Absolute Erros = 0.0
Input 665.13 Absolute Erros = 0.0

   This result shows all the absolute error for the cases under InputReading-id1 is 0. Therefore the case success.

2. InputReading-id2

   This is the testing for ensuring the software has the ability to read the input value Φ_P.
   The the input can be find under the path "../src/tiltAngPro/test/tests"
   Input File Name : "id2.inputReading"
   Output File Nmae: "id2.inputReading.golden"

id	Input	Output
id2.1	90	90
id2.2	-90	-90
id2.3	3.2	3.2
id2.4	-3.2	-3.2
id2.5	0	0

Table 2: Actual Input and Expected Output

.inputReading
id2_1
Input 90.0 Absolute Erros = 0.0
id2_2
Input -90.0 Absolute Erros = 0.0
id2_3
Input 3.2 Absolute Erros = 0.0
id2_4
Input -3.2 Absolute Erros = 0.0
id2_5
Input 0.0 Absolute Erros = 0.0

This result shows all the absolute error for the cases under InputReading-id2 is 0. Therefore the case success.

3. InputReading-id3

This is the testing for ensuring the software has the ability to read the input value ($year_{\text{Start}}$, $month_{\text{Start}}$, day_{Start}) ($year_{\text{End}}$, $month_{\text{End}}$, day_{End}).

The the input can be find under the path "../src/tiltAngPro/test/tests"
Input File Name : "id3.inputReading"
Output File Nmae: "id3.inputReading.golden"

.inputReading

id	Input	Output
id3.1	(2020, 02, 28) - (2021, 02, 28)	(2020, 02, 28) - (2021, 02, 28)
id3.2	(1996, 01, 03) - (2000, 01, 14)	(1996, 01, 03) - (2000, 01, 14)

Table 3: Actual Input and Expected Output

id3_1
Input 2020-02-28 Absolute Erros = 0
Input 2021-02-28 Absolute Erros = 0
id3_2
Input 1996-01-03 Absolute Erros = 0
Input 2000-01-14 Absolute Erros = 0

This result shows all the absolute error for the cases under InputReading-id3 is 0. Therefore the case success.

4 Nonfunctional Requirements Evaluation

4.1 Usability

4.2 Performance

4.3 etc.

5 Comparison to Existing Implementation

This section will not be appropriate for every project.