Test Case Team VFL

OPTIMIZE DESIGN PARAMETER FOR MICROWAVE FILTER

Tester name: Mr.Alvin

2024

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| **Test Case ID** | | Version1\_1 | **Test Case Description** | | Observe cost and reward value by adjust the design parameter | | | | | |
| **Created By** | | Fong, Vincent | **Reviewed By** | | Leong | | **Version** | | Version 1.0.0.0 | |
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| **QA Tester’s Log** | |  | | | |  |  |  |  |  |
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| **Tester's Name** | |  | **Date Tested** | |  | | **Test Case (Pass/Fail/Not Executed)** | |  | |
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| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data (Cost and Reward)** | | | | |
| 1 | Download application folder | | |  | 1 | All design parameter = 40 | | | | |
| 2 | Open .exe file in \TeamVFL\_Project\_Prototype\bin\x64\Release | | |  | 2 | Design parameter, c1:14, l1:28, c2:74, l2:36, c3:59, l3:20 | | | | |
| 3 | Import the .fpx file from Test FPX file provided | | |  | 3 | Design parameter, c1:18, l1:39, c2:57, l2:62, c3:21, l3:40 | | | | |
| 4 | Click on the “Optimize” Button | | |  | 4 | Design parameter, c1:65, l1:35, c2:45, l2:25, c3:20, l3:15 | | | | |
| 5 |  | | |  | 5 | Design parameter, c1:66, l1:28, c2:40, l2:20, c3:40, l3:15 | | | | |
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| **Test Scenario** |  | | | | | |  |  |  |  |
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| **Step #** | **Step Details** | | **Expected Results**  **(should below 10% of initial cost & should above 10% of initial reward）** | | **Actual Results** | | | **Pass / Fail / Not executed / Suspended** | | |
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| 1 | Import .fpx with all parameter to 40 | | Cost= , Reward= | | Cost= , Reward | | |  | | |
| 2 | Import .fpx with parameter c1:14, l1:28, c2:74, l2:36, c3:60, l3:40 | | Cost=100.1 , Reward= -100.1 | | Cost=55.36 , Reward=-45.36 | | | Pass | | |
| 3 | Import .fpx with parameter c1:18, l1:39, c2:57, l2:62, c3:21, l3:40 | | Cost= , Reward= | | Cost= , Reward= | | |  | | |
| 4 | Import .fpx with parameter c1:65, l1:35, c2:45, l2:25, c3:20, l3:15 | | Cost= , Reward= | | Cost= , Reward= | | |  | | |
| 5 | Import .fpx with parameter c1:66, l1:28, c2:40, l2:20, c3:40, l3:15 | | Cost= , Reward= | | Cost= , Reward= | | |  | | |

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| **S #** | **Tester Remark** |
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| **Test Case ID** | | Version1\_2 | **Test Case Description** | | Import file that out of .fpx | | | | | |
| **Created By** | | Fong, Vincent | **Reviewed By** | | Leong | | **Version** | | Version 1.0.0.0 | |
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| **QA Tester’s Log** | |  | | | |  |  |  |  |  |
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| **Tester's Name** | |  | **Date Tested** | |  | | **Test Case (Pass/Fail/Not Executed)** | |  | |
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| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data** | | | | |
| 1 | Download application folder | | |  | 1 | .pdf | | | | |
| 2 | Open .exe file in \TeamVFL\_Project\_Prototype\bin\x64\Release | | |  | 2 | .csv | | | | |
| 3 | Import any file that is not .fpx | | |  | 3 | .png | | | | |
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| **Test Scenario** |  | | | | | |  |  |  |  |
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| **Step #** | **Step Details** | | **Expected Results** | | **Actual Results** | | | **Pass / Fail / Not executed / Suspended** | | |
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| 1 | Import .pdf file | | File not found, been filter by desktop app | | Not Found | | | Pass | | |
| 2 | Import .csv file | | File not found, been filter by desktop app | | Not Found | | | Pass | | |
| 3 | Import .png file | | File not found, been filter by desktop app | | Not Found | | | Pass | | |
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| **Test Case ID** | | Version1\_3 | **Test Case Description** | | Test Design Response area functionality | | | | | |
| **Created By** | | Fong, Vincent | **Reviewed By** | | Leong | | **Version** | | Version 1.0.0.0 | |
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| **QA Tester’s Log** | |  | | | |  |  |  |  |  |
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| **Tester's Name** | |  | **Date Tested** | |  | | **Test Case (Pass/Fail/Not Executed)** | |  | |
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| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data** | | | | |
| 1 | Download application folder | | |  | 1 | All design parameter = 40 | | | | |
| 2 | Open .exe file in \TeamVFL\_Project\_Prototype\bin\x64\Release | | |  | 2 |  | | | | |
| 3 | Import the .fpx file from Test FPX file provided | | |  | 3 |  | | | | |
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| **Test Scenario** |  | | | | | |  |  |  |  |
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| **Step #** | **Step Details** | | **Expected Results** | | **Actual Results** | | | **Pass / Fail / Not executed / Suspended** | | |
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| **S #** | **Tester Remark** |
| 1 | Graph should have live change function. |
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| **Test Case ID** | | Version1\_4 | **Test Case Description** | | Test Design Parameter area functionality | | | | | |
| **Created By** | | Fong, Vincent | **Reviewed By** | | Leong | | **Version** | | Version 1.0.0.0 | |
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| **QA Tester’s Log** | |  | | | |  |  |  |  |  |
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| **Tester's Name** | |  | **Date Tested** | |  | | **Test Case (Pass/Fail/Not Executed)** | |  | |
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| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data** | | | | |
| 1 | Download application folder | | |  | 1 | All design parameter = 40 | | | | |
| 2 | Open .exe file in \TeamVFL\_Project\_Prototype\bin\x64\Release | | |  | 2 |  | | | | |
| 3 | Import the .fpx file from Test FPX file provided | | |  | 3 |  | | | | |
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| **Test Scenario** |  | | | | | |  |  |  |  |
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| **Step #** | **Step Details** | | **Expected Results** | | **Actual Results** | | | **Pass / Fail / Not executed / Suspended** | | |
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| 1 | Min=200, Max =100 | | Message box should error | | System will notice user the design parameter value should between min and max | | | Pass | | |
| 2 | C1 value =21, min=20, max=22 | | High probability keep same value | | C1 value not changing | | | Pass | | |
| 3 | C1 value=30, min=27, max=35 | | The c1 value should reduce near to 28 | | C1 value reduce to 29 | | | Pass | | |
| 4 | C1 value=27, min=27, max=35 | | The c1 value should increase near to 28 | | C1 value increase to 28 | | | Pass | | |
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| **S #** | **Tester Remark** |
| 1 | The AI have update the value to good direction, it’s prove the AI capability. |
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| **Test Case ID** | | Version1\_5 | **Test Case Description** | | Test Goals Setting area functionality | | | | | |
| **Created By** | | Fong, Vincent | **Reviewed By** | | Leong | | **Version** | | Version 1.0.0.0 | |
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| **QA Tester’s Log** | |  | | | |  |  |  |  |  |
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| **Tester's Name** | |  | **Date Tested** | |  | | **Test Case (Pass/Fail/Not Executed)** | |  | |
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| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data** | | | | |
| 1 | Download application folder | | |  | 1 | All design parameter = 40 | | | | |
| 2 | Open .exe file in \TeamVFL\_Project\_Prototype\bin\x64\Release | | |  | 2 |  | | | | |
| 3 | Import the .fpx file from Test FPX file provided | | |  | 3 |  | | | | |
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| **Test Scenario** |  | | | | | |  |  |  |  |
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| **Step #** | **Step Details** | | **Expected Results** | | **Actual Results** | | | **Pass / Fail / Not executed / Suspended** | | |
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| 1 | G0 value =-20, Min=0.1, Max=0.45,  G1 value=-15, Min=0.01, Max=0.06,  G2 value=-15, Min=0.6, Max=1.0 | | Should reduce cost and reward | | Cost and Reward from 1300 reduce to 200. | | | Pass | | |
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| **S #** | **Tester Remark** |
| 1 | The goal line should change once click on some button instead of live change. |
| 2 | It will be good to train another AI model by random change the environment (goal value and design parameter) |
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