Music Player – Rebmem Engineering

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Level 4 Software Developer Apprentice

Software Report

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# Requirements

You work for Rebmem Engineering that produces solutions for external clients. They wish to produce their own media player. They have the capability to produce the electronic hardware but need an interface to allow for the sale of the device as a portable music player. Your manager would like you to take ownership of the initial concept.

You will need to:

1. Design, configure, test and install a Music player that meets business requirements.
2. Roll out within the agreed time frame of a maximum of 5 days.
3. Build an interface that allows for continuous improvement.

|  |  |
| --- | --- |
| Requirement | Completed? |
| Allow music playback | Y |
| Allow playback even when a device becomes idle – a device becomes idle if there is no user interaction for 30 seconds | Y |
| Random shuffle function |  |
| Have a search option within a media database |  |
| List display options by song title or track |  |
| Allow creation of a song playlist |  |
| Have user control over playback |  |

# Interactivity Chart

# Input – Process – Output Chart

|  |  |  |
| --- | --- | --- |
| Input | Process | Output |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# Data Dictionary

|  |  |  |
| --- | --- | --- |
| Variable Name | Data Type | Reason for Use |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# Flowchart

# Pseudo Code

# Development

# Test Plan

|  |  |  |  |
| --- | --- | --- | --- |
| Test No. | Purpose of test | Expected outcome | Input data |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |
| 5 |  |  |  |
| 6 |  |  |  |
| 7 |  |  |  |
| 8 |  |  |  |

# Test Run

|  |  |  |  |
| --- | --- | --- | --- |
| Test No. |  | Purpose of test |  |
| Test data |  | | |
| Expected outcome |  | | |
| Actual outcome |  | | |
| Pass/Fail |  | | |
| Evidence | | | |
|  | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Test No. |  | Purpose of test |  |
| Test data |  | | |
| Expected outcome |  | | |
| Actual outcome |  | | |
| Pass/Fail |  | | |
| Evidence | | | |
|  | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Test No. |  | Purpose of test |  |
| Test data |  | | |
| Expected outcome |  | | |
| Actual outcome |  | | |
| Pass/Fail |  | | |
| Evidence | | | |
|  | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Test No. |  | Purpose of test |  |
| Test data |  | | |
| Expected outcome |  | | |
| Actual outcome |  | | |
| Pass/Fail |  | | |
| Evidence | | | |
|  | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Test No. |  | Purpose of test |  |
| Test data |  | | |
| Expected outcome |  | | |
| Actual outcome |  | | |
| Pass/Fail |  | | |
| Evidence | | | |
|  | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Test No. |  | Purpose of test |  |
| Test data |  | | |
| Expected outcome |  | | |
| Actual outcome |  | | |
| Pass/Fail |  | | |
| Evidence | | | |
|  | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Test No. |  | Purpose of test |  |
| Test data |  | | |
| Expected outcome |  | | |
| Actual outcome |  | | |
| Pass/Fail |  | | |
| Evidence | | | |
|  | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Test No. |  | Purpose of test |  |
| Test data |  | | |
| Expected outcome |  | | |
| Actual outcome |  | | |
| Pass/Fail |  | | |
| Evidence | | | |
|  | | | |

# Revised Test Plan

|  |  |  |  |
| --- | --- | --- | --- |
| Test No. | Purpose of test | Expected outcome | Input data |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# Revised Test Run

|  |  |  |  |
| --- | --- | --- | --- |
| Test No. |  | Purpose of test |  |
| Test data |  | | |
| Expected outcome |  | | |
| Actual outcome |  | | |
| Pass/Fail |  | | |
| Evidence | | | |
|  | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Test No. |  | Purpose of test |  |
| Test data |  | | |
| Expected outcome |  | | |
| Actual outcome |  | | |
| Pass/Fail |  | | |
| Evidence | | | |
|  | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Test No. |  | Purpose of test |  |
| Test data |  | | |
| Expected outcome |  | | |
| Actual outcome |  | | |
| Pass/Fail |  | | |
| Evidence | | | |
|  | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Test No. |  | Purpose of test |  |
| Test data |  | | |
| Expected outcome |  | | |
| Actual outcome |  | | |
| Pass/Fail |  | | |
| Evidence | | | |
|  | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Test No. |  | Purpose of test |  |
| Test data |  | | |
| Expected outcome |  | | |
| Actual outcome |  | | |
| Pass/Fail |  | | |
| Evidence | | | |
|  | | | |

# Retrospective

# Appendix

Appendix 1 – Code Screen Shot

