**AT03 Production Diary**

**1.1.1 A\* Algorithm Research**

**A\* Terminology Definitions**

**F Cost:**

**Heuristic:**

**Priority Queue:**

**1.2.1 Specifications and Software Analysis**

**3D Model Export Specifications:**

**Character Animation Specifications:**

**Animation Features, Toolsets, and Capabilities in Unity:**

**1.2.2 Unity Scene Navigation**

**Panning the viewport camera:**

**Zooming the viewport camera in/out:**

**Rotating the viewport camera:**

**1.2.3 Enhancing Workflow in Unity**

**Keyboard Hotkey/Shortcut Procedures:**

**Navigational Input Procedure:**

**1.3.1 HCI Device Integration Research**

**Potential HCI Devices:**

**Selected HCI Devices and Associated Control Schemes:**

**1.3.2 Planned HCI Integration**

**C# Event System Summary:**

**Unity GUI Library Reviews:**

**1.3.3 UI Widget Example Overviews**

**2.1.1 AI Behaviour Chart**

*Insert your behaviour chart for the AI here.*

**2.1.2 AI Design Review**

**Review of AI Design Feasibility:**

**AI Production Timeline and Cost Estimates:**

**2.2.1 Animation Reference Materials**

**2.3.1 UI Widget Paper Prototype**

*Insert the paper prototypes for the required UI widget here.*

**3.1.2/3.3.2 Testing Log**

*Please add rows as required.*

|  |  |  |  |
| --- | --- | --- | --- |
| Test Case Description | Expected Results | Actual Results | Success? |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**3.2.2 Animation Troubleshooting**

**Error Scenario Summary:**

**Relevant Official Unity Documentation:**

**Relevant Unity User Feedback:**

**3.3.2 Web Browser Testing**

**Web Build Running in Mozilla Firefox:**

**Web Build Running in Google Chrome:**

**4.1 Required Amendments**

**4.2 Final Review**

**AI Evaluation:**

**Final Checks:**

|  |  |
| --- | --- |
| **Final Checks** | **Confirmed** |
| * Camera movement responds to relevant inputs |  |
| * Player movement responds to relevant inputs |  |
| * Player interaction responds to relevant inputs |  |
| * AI path finding (using the A\* algorithm) has been successfully integrated |  |
| * The AI behaviour is defined by four states – idle, chase, stun, and either patrol or wander. |  |
| * The logic of all AI behaviour states aligns with the game brief |  |
| * AI successfully and appropriately transitions between behaviour states |  |
| * Chase state becomes the default state for the AI when the objective item is interacted with |  |
| * AI transitions to stun state in response to player interaction |  |
| * AI 3-D model and animations have been successfully integrated for each behaviour state |  |
| * AI audio clips have been successfully integrated for each behaviour state |  |
| * Game win conditions have been successfully implemented |  |
| * Game loss conditions have been successfully implemented |  |
| * UI prompt displays appropriate message based on game loss or victory |  |
| * UI widget responds to relevant keyboard inputs |  |
| * UI widget responds to relevant mouse inputs |  |
| * UI widget responds to relevant controller inputs |  |
| * UI set to scale with a full HD resolution (1920x1080) |  |
| * UI objective text updates appropriately |  |
| * UI ‘new game’ button successfully loads game scene |  |
| * UI ‘info’ button successfully displays a window with some game information |  |
| * UI ‘quit’ button successfully closes the application |  |
| * Appropriately compatible with Windows |  |
| * Appropriately compatible with Google Chrome web browser |  |
| * Appropriately compatible with Mozilla Firefox web browser |  |

**4.3 Final Client Sign-Off**

*Insert a screenshot of your email communications with the client, providing evidence of their endorsement to finish the production of the project.*

**Repository Link:**