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Abstract

.

TECHNICAL DESIGN DOCUMENT

Your PCG System Name

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# Glossary

*Abbreviation followed by the wording.*

GPU – Graphics Processing Unit

CPU – Computer Processing Unit

# Introduction

A description of the PCG System you are proposing.

# List of Features

What features must the system have?

# High Level Diagrams (if any / delete as appropriate)

Any documentation to support the development process for the system. UML, etc.

# Engine Requirements

Engine capabilities and minimum version. (UE5.4)

# Logic and AI Requirements

Is this needed for your artefact?

# Audio and Visual Requirements

Is this needed for your artefact?

# User Setup Guide

How to setup the game engine to accommodate the tool/artefact process. All sections are a user setup guide and how to use them.

# Minimum System Requirements

Give this some thought!! This is for the engine!

# Multiplayer and Networking (delete as appropriate)

Engine capabilities for game genre.

# UI of the Tool/Artefact/System

The UI of the engine

# External Library Dependencies

List all if any libraries needed for the engine and game.

# Platform Specifications

What platform is this aimed at?

# Asset Pipeline

How to bring in assets and where to they go.

# Material Pipeline

Shader systems, etc.

# Assessment Related Requirements to be answered:

* Problem that inspired the PCG system.
* Proposed solution(s) to the problem which DID NOT include PCG.
* Proposed solution(s) to the problem which DID include PCG.
* Purpose of use within the development cycle.
* Intended departmental use (art/sound/design)/target audience use.
* Tool/System engine user manual considerations.
* Potential upgrades/Future developments.

# Horizontal Prototype (if necessary – delete as appropriate)

Time and date of post.

Link to post.

**On the post:**

It is ideal to have this as a single but very detailed post on the forum.

Include:

* Have the title “Horizontal Prototype”
* Visual inspiration
* Technical inspiration
* UI inspiration
* Output inspiration
* Anything else you feel is beneficial to the way the system should look and its outputs.
* Images
* Videos

# Vertical Prototype (graded)

Time and date of post.

Link to post.

**On the post:**

It is ideal to have this as a single but very detailed post on the forum.

Include:

* Have the title “Vertical Prototype”
* System summary
* Identify core system output/function achieved in the Vertical Prototype
* Show iterations of the system within the vertical prototype phase (if any. May only be one)
* Show the output at this stage.
* Images
* Video(s)
* Test plan in the primitive format (incomplete or partially complete)

# Polished System

Time and date of post.

Link to post.

(Submit zip file separate)

**On the post:**

It is ideal to have this as a single but very detailed post on the forum.

Include:

* Have the title “Polished System”
* System User Manual
* Show system output to a polished level.
* Show iterations of system output to a polished level.
* Show the system requirements for your PCG system.
* State the usage of the system and how it fits into the development cycle.
* Complete test plan.
* Images
* Videos

# Test Plan

Add your completed test plan here as a table.

Include:

* Test item
* Expected Outcome
* Actual Outcome
* How Did You Fix It? (if necessary)

# System User Manual

Add your user manual here, simply continue writing this document in the format of a user manual beyond this point.

Include:

* System brief
* System output
* Development Cycle Application
* System requirements
* Team the system would be suitable for.
* If UI explain it and how to work it.
* Identify future updates (1-2 no more)

# Add more headers as appropriate. This is basically how to use the game engine. Take inspiration from UE5.4 Docs.

# Additional Supportive Documentation

Any additional documentation that is relevant to the project.

# Bibliography

Harvard Referencing examples:

**Website**:

**Bibliography format:**

BBC News (2008) Factory Gloom worst since 1980 [Online]. Available from: http://news.bbc.co.uk/1/hi/business/7681569.stm [Accessed: 21 October 2008]

**In-text example:**

(BBC News 2008)  
…as reported on BBC News (2008)

**Book (1 Author)**:

**Bibliography format:**

Neville, C. (2007). The Complete Guide to Referencing and Avoiding Plagiarism. Maidenhead: Open University Press

**In-text example:**

(Neville, 2007)  
Neville (2007) commented that…  
“Direct quotations are placed in double quotations marks” (Author’s Surname, Year of Publication, p. – followed by page number – in brackets)

**Journal**:

**Bibliography format:**

Trefts, K. & Blaksee, S. (2000). Did you hear the one about Boolean operators? Incorporating comedy into library instruction. Reference Services Review. 28 (4) p. 369-378.

**In-text example:**

(Trefts & Blaksee 2000)

This supports Trefts & Blaksee’s (2000) evidence that……  
“direct quotations are placed in double quotations marks” (Author’s Surname, Year of Publication, p. – followed by page number – in brackets)

# Appendices

Any supporting documentation can be added to the appendix. This can relate to any section of the report.

It also helps if the appendix has its own content page and naming conventions.

## Appendix 1: Title

## Appendix 2: Title