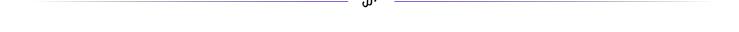
## **Escape room Technical Documentation**



# Technical Documentation

#### The Librarian's Last Request

**Engine:** Unreal Engine 5

Developer: Tay (aka @taysbookbabel)

Genre: Escape Room

Theme: Haunted Library Mystery

Level: Beginner



- GameMode Blueprint: `BP\_BP\_ThirdPersonGameMode
- Purpose: Controls game rules, countdown, objectives, etc...
- Key Variables:
  - Haskey(Boolean): Verifies if the character has a page in order to open the door.
- Key Functions:
  - ConstructionScript: No current function.

#### Player Controller: `BP\_ThirdCharacter

- Purpose: Handles player input, interaction line traces, and UI.
- Widget Integration:
  - Interacts with WBP\_Countdown (1 minute countdown) and WBP\_GameOver (triggers the game over screen).



#### BP\_ObjectivePoint

- Type: Actor Blueprint
- Purpose: Holds the objectives for the level.
- Core Logic:
  - Uses a collision box to trigger a message to the player. It interacts with the podium mesh that holds the book on top of it in level one.
  - Reacts to player walking into (or colliding with) it.
  - Objective is not displayed on the screen until the player collides with the objective point actor.



#### BP\_DoorKey

- Purpose: Holds the code for the pages of the book that the player must retrieve to open the door.
- UI: Tied to BP\_Door.
- Validation:
  - If correct, the player will not be able to open the door and escape until they have found the page within the level.

- Purpose: Has the code for the actual door and door frame which stays closed unless the player has the key (page of the Book of True Names)
- Logic:
- Activates the rotation of the door so it turns open.

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## **a** Assets Summary

Category	Name	Purpose
Mesh	bigpipe_v2_a_big_pipe	Walls
Mesh	billard_table	Pool Table
Mesh	bookshelf_short_lowpoly	Bookshelves
Mesh	chalk_board	Green Chalkboard
Mesh	cupboard_wooden_rusty	Rusty Cupboard
Mesh	de_humani_corporis_fabrica	Book on Podium
Mesh	dirty_leaking_concrete_wall	Leaky Wall
Mesh	japanese_bulletin_board_01	Bulletin Board
Mesh	neo_gothic_stone_column	Stone Podium
Mesh	old_desk_04_freepolyorg	Library Tables
Mesh	old_pillar	Old Rusty Pillar
Mesh	old_rusty_pipe_tube	Old Pipes
Mesh	old_wooden_table	Wooden Tabke
Mesh	rusty_japanese_arcade	Old Arcade Machine
Mesh	set_of_cardboard_boxes	Cardboard Boxes
Mesh	SM_Jelly_letter	Red Lettering
Material	M_	Floor
VFX	Niagara Sparkles	Glow Over The Podium

Category	Name	Purpose
SFX	EscapeRoom_Librarian_Sound,grimythDeep_Space_Buddha	Librarian Laugh, Haunted Sound
UI	WBP_Countdown WBP_GameOver	Countdown/Game Over Screen





## Technical Considerations

- Performance: Shelves and books are instanced where possible for efficiency.
- Accessibility Goals for the Future:
  - Red/Green colorblind-friendly filter in Post Process
  - Flashlight toggle for visibility control
  - Minimal Eye Strain
  - Visual Cues for HOH players