University of California, Merced

Visual Novel Game Engine

Presented by Cristian Parker & Ethan Hom

Use Case: Game Designer/Backend User

Manage Characters: Create, Read, Update, and Delete entries in characters table (ex. add character, change name)

Manage Art: Upload images to sprites and locations, also Link sprites to character

Manage Scenes: Create new scene giving them names (ex. Ch. 1), also Assign to a location (ex. The Library)

Diaglogue: Add lines to scene. Defines text/content, speaker/char_id, and order of speaking sequence_id

Game Logic: Define events (ex. play music) and Events table to trigger events to start

Narrative: lines for player choice. Choices table to different scenes

Use Case: Player/Frontend User

Start New Game: Player initializes game, scene is set to default/starting scene, Locations table is called for background path (bg_path), and queries Sprites for character sprites

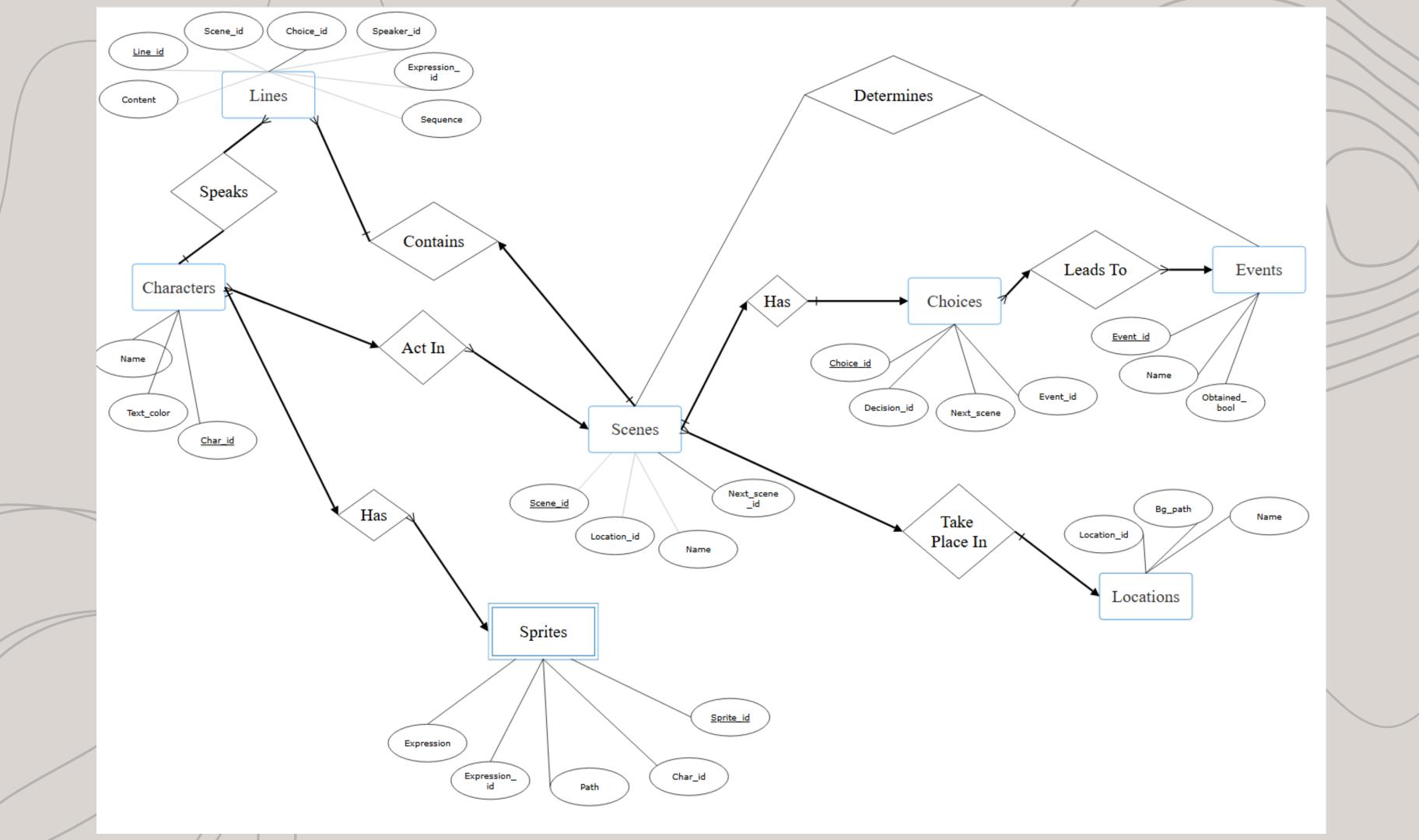
Dialogue: Click on buttons and queries Lines table to advance for the next scene in sequence, then shows content and speaker

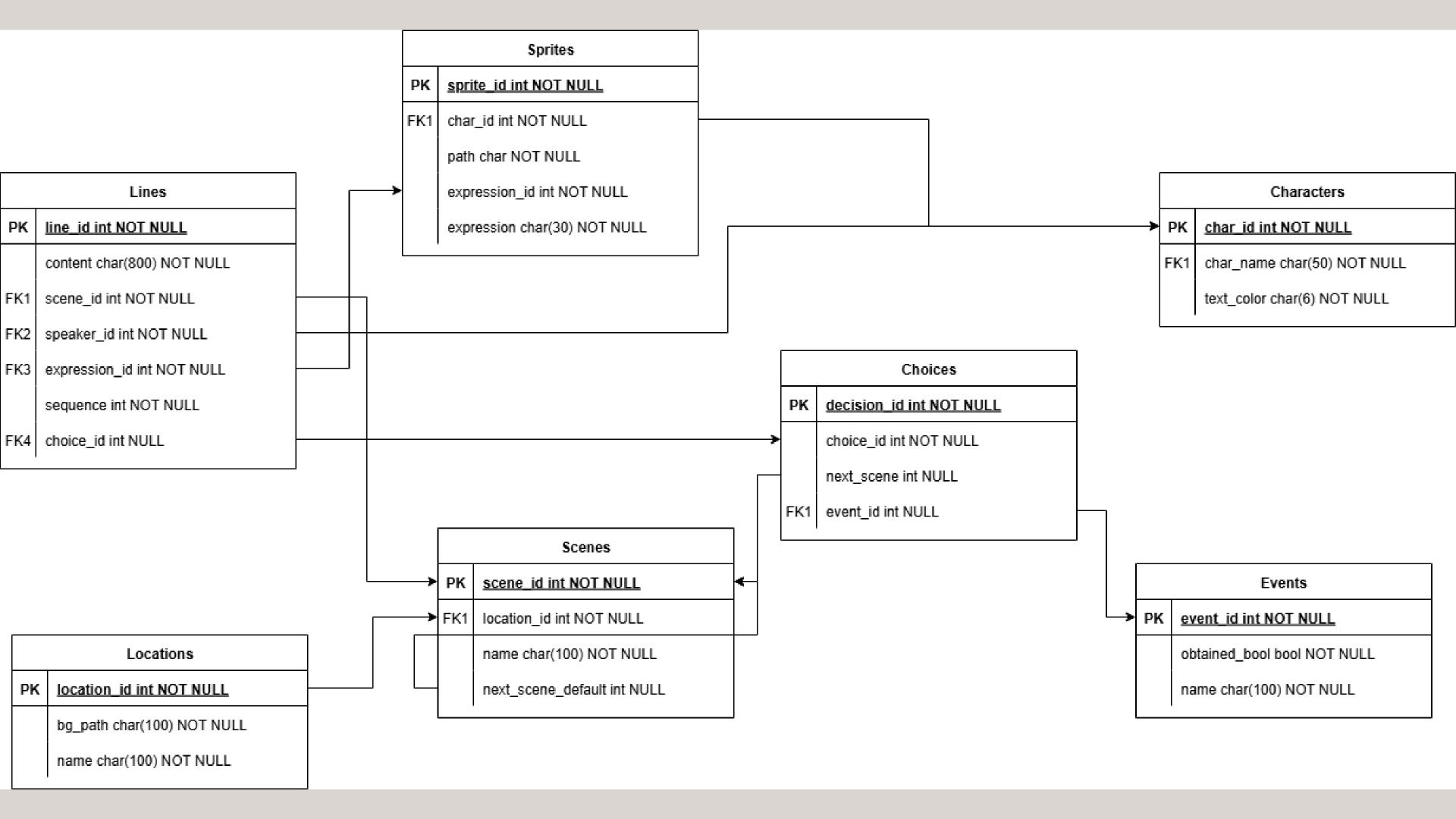
View Scene Elements: Continuously check Events linked to the current scene or line to trigger events (ex. effects, sprite change, music changes)

Choice: Display the choice text; on select, use Choices.next_scene to load next scene

Load Game: Player selects save file. System stores scene_id and any variables so player can load to exact point.

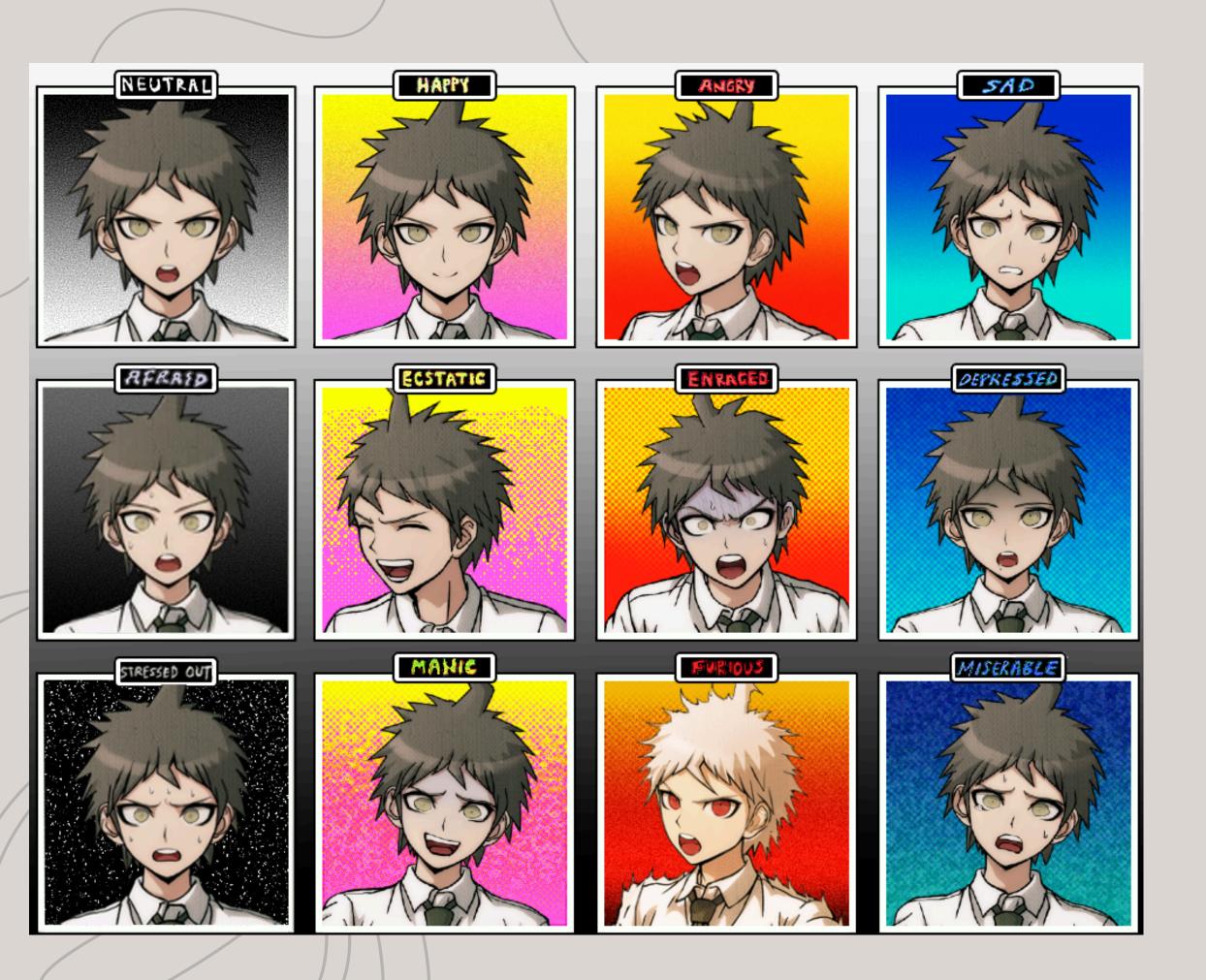
Quit Game: Player exits



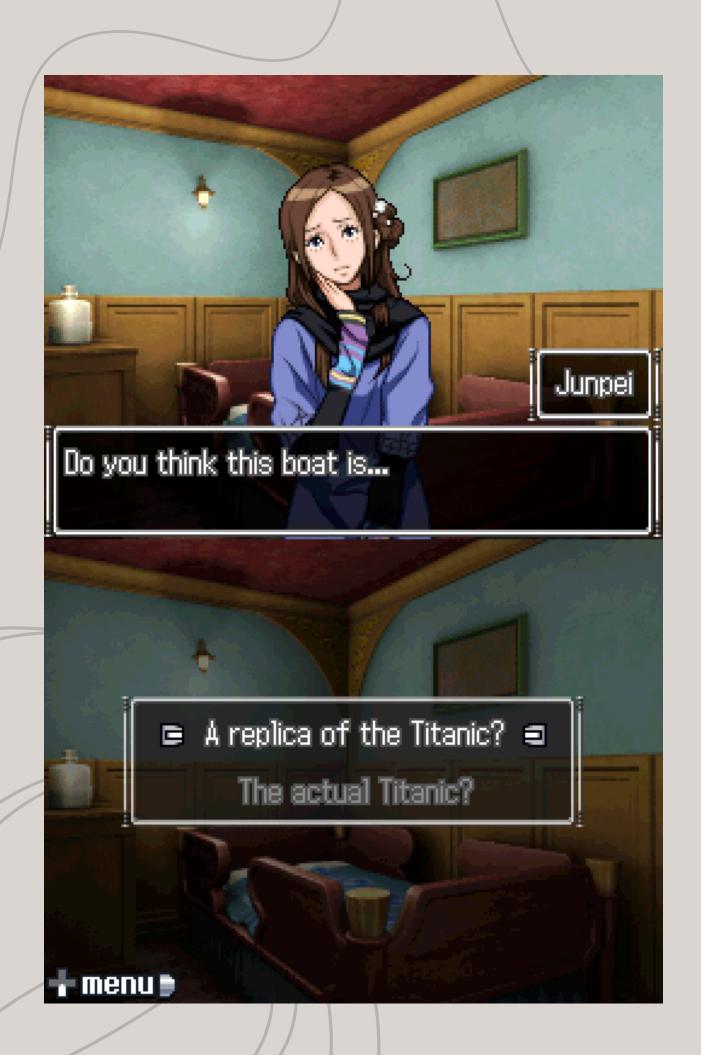




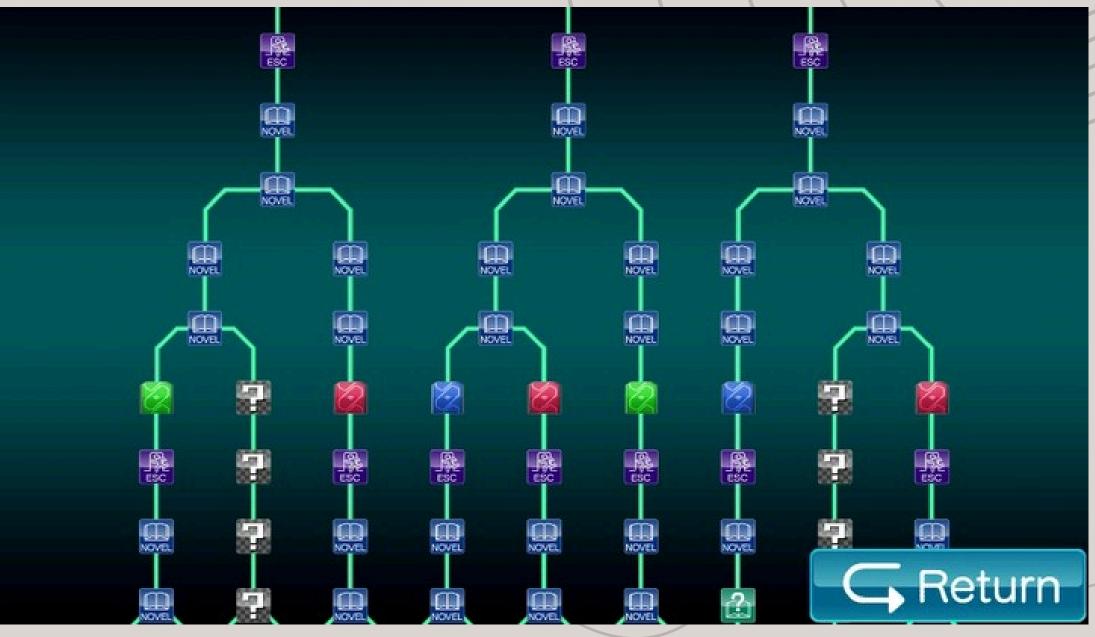
End Example



Sprites



Choices





Thank You

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