

CHOMPER STUDIOS



Grim Reaper

Loss of Memories

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Table of Contents

Grim Reaper.....	1
Table of Contents.....	2
Revision History.....	4
Game Goals.....	5
Who, What, How?.....	5
Technical Specifications.....	5
Gameplay Types.....	5
Technological Requirements.....	6
Tools Used:.....	6
Implementation:.....	6
Design Tools:.....	6
Proposed Cheats:.....	6
Target Specs for Mobile Devices:.....	7
Story Overview.....	8
Game World.....	8
Levels.....	8
Game Progression.....	8
Game Play.....	9
Controls.....	9
Game Play Mechanics.....	9
Camera.....	9
Saving and Loading.....	9
Achievement System.....	10
User Interface.....	11
Main Menu.....	11
Game Level UI.....	12
Game Win Menu.....	13
Game Over Menu.....	13
Game flowchart.....	14
The World Layout.....	15
Level 0: Tutorial.....	15
Level 1 - Adventure Starts.....	16
Level 2 - Final Chapter.....	17
Player Characters.....	18
Main Character.....	18

Assistance Character.....	18
Weapons.....	18
Abilities.....	18
Player inventory tools.....	18
Power-ups.....	18
Health.....	19
Bosses.....	19
Enemies.....	19
Non-player Characters.....	19
Design Notes.....	20
Reaper Design.....	20
Crow Design.....	20
Enemy Design.....	20
Music and Sound Effects.....	21
Background Music.....	21
Sound Effects.....	21

Revision History

- Version 01 - Oct 04, 2024

Game Goals

Grim Reaper: Loss of Memories is a single-player 3D action-adventure mobile game that immerses players in the captivating journey of a young boy on a quest to recover his lost memories and ultimately ascend to the role of the Grim Reaper, all with the help of his newfound friend, Crow.

Who, What, How?

Who: This game is aimed at players aged 10 and up, rated E for Everyone by ESRB. It caters to both casual and dedicated gamers who enjoy engaging stories and platforming challenges.

What: Players will navigate a surreal world filled with diverse platforms and formidable enemies while collecting memory fragments. Gameplay blends platforming and combat, requiring quick reflexes and strategic use of Crow's abilities to progress through the game.

How: The game offers:

- 3D Action-Adventure Gameplay: Unique blend of platforming and combat.
- Dynamic Levels: Varied platform types and escalating challenges.
- Savepoint System: Careful placement allows for seamless gameplay without losing progress.
- Engaging UI: Intuitive interface with inventory and health indicators.
- Achievement System: Encourages exploration and skill mastery for greater replayability.

Technical Specifications

Platform: Mobile Devices (Android)

Multiplayer Capability: The game focuses solely on a single-player experience.

Technical Requirements: Compatible with most modern Android devices with sufficient storage for download and gameplay.

Gameplay Types

- Platforming: Navigate through moving, bouncing, and still platforms while solving puzzles to progress.
- Combat: Engage in fast-paced battles against a variety of enemies, utilizing both physical attacks and Crow's abilities.
- Exploration: Discover hidden areas and memory fragments while interacting with NPCs for clues and guidance.

- **Quest Completion:** Undertake quests that encourage deeper engagement with the story and world.

Grim Reaper: Loss of Memories invites players on a captivating journey filled with challenges, emotional storytelling, and the thrill of discovery!

Technological Requirements

Tools Used:

- **Game Engine:** Unity for 3D graphics and physics.
- **Art Tools:** Blender for 3D modeling and animations.

Implementation:

- **Camera:** Controlled through Unity's Cinemachine, designed by programmers to ensure smooth transitions and perspective adjustments.
- **Physics:** Utilizes Unity's built-in physics engine, primarily implemented by programmers with some designer input for fine-tuning interactions.
- **Boss Mechanics:** Scripted events for boss encounters, including AI behavior, implemented by designers using Unity's visual scripting or C#.
- **Level Design:** Designers will create levels using Unity's scene editor, incorporating gameplay elements and testing for balance.

Design Tools:

- **Level Creation:** Unity Editor for creating and testing game environments.
- **Scripting Tools:** Visual Studio for coding in C# and Unity visual scripting for non-programmers.
- **Asset Management:** Unity Asset Store for sourcing additional assets and tools.

Proposed Cheats:

- **Level Skip:** Shortcut to advance to the next level (e.g., button combination).
- **Invulnerability:** Toggle invincibility for the player character (e.g., double-tap a specific button).
- **Camera Control:** Free-camera mode activated by a cheat code to explore levels without restrictions.

- **Gameplay Modifiers:** Speed adjustments, infinite health, and other gameplay-related tweaks accessed via a console or specific button combinations.

Target Specs for Mobile Devices:

- **OS:** Android 7.0 (Nougat) or higher.
- **RAM:** Minimum 3 GB.
- **CPU:** Quad-core 1.5 GHz or equivalent.
- **Graphics:** Adreno 506 or equivalent (supports OpenGL ES 3.0).
- **Storage:** At least 1 GB of free space for installation.
- **Required Peripherals:** Touchscreen support for control, no additional peripherals required.

These technological foundations will ensure a smooth and engaging experience for players in **Grim Reaper: Loss of Memories**.

Story Overview

In our game, players will step into a surreal and haunting realm known as 'Limbo.' This ethereal world is a labyrinthine landscape, where reality bends and twists, giving birth to a series of mind-bending and captivating stages. This dimension-shifting world challenges players with its otherworldly beauty and treacherous terrain. As players traverse these twisted stages, they'll unravel the mysteries of Limbo and confront the surreal forces that dwell within, creating an immersive and unforgettable experience.

Game World

Levels

The game consists of two levels in this stage, including tutorial level and game level, each featuring various types of platforms such as static, moving, ramps, elastic, spinning, and swinging elements. Additionally, different enemies and obstacles will be introduced in each level, with the difficulty increasing as players progress to higher stages. Enemies become stronger based on the current stage, providing a greater challenge, but players can discover more powerful weapons to aid in their journey.

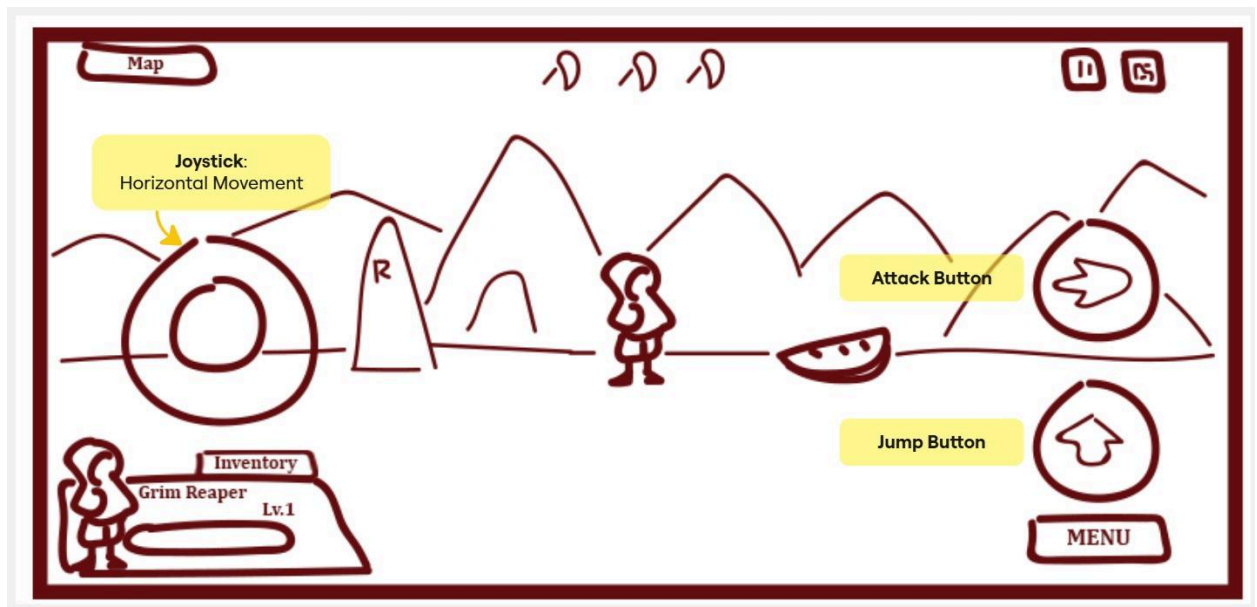
Game Progression

When the player loads into the new game, a tutorial level hint will be shown. Meanwhile, there is an achievement scheme: when the player completes all the quests, including finishing the tutorial level, collecting at least 1 item, and killing at least 1 enemy, the player will be rewarded by being sent directly to the location of the key. It is because to advance to the game win scene, the player must first locate and retrieve the key from a designated location, then successfully navigate to the corresponding building or gate to unlock entry. However, the journey is fraught with challenges, as enemies and hazards stand in the way, hindering the player's progress. To overcome these obstacles, the player can employ various movements, including jumping and attacking, and utilize different weapons to either defeat enemies or navigate around hazards, ultimately allowing them to reach the gate and proceed to the next level.

Game Play

Controls

In "Grim Reaper", players will make use of on-screen control.



- Step 1: Use the joystick to move the character
- Step 2: Hit the jump button to jump and collide to collect items
- Step 3: Hit the attack button to shoot crow bullets and kill the enemies

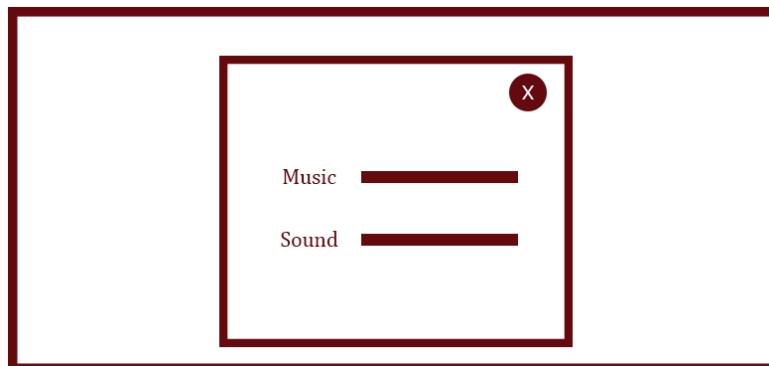
Game Play Mechanics

The game will feature a platformer format, offering players the ability to move the character using on-screen controls. In addition to movement and attacking, players will also have the option to jump to navigate the environment effectively. As players progress, they'll encounter both monsters that need to be defeated and challenging bosses to confront, designed to challenge their wits and platforming skills, creating a diverse and engaging gameplay experience.

Camera

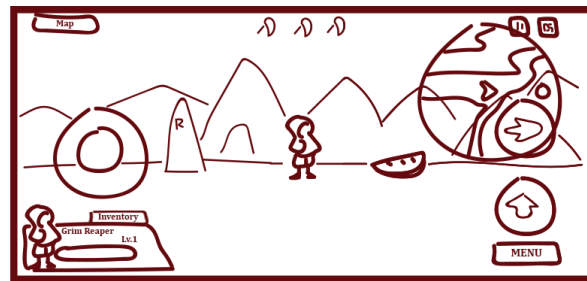
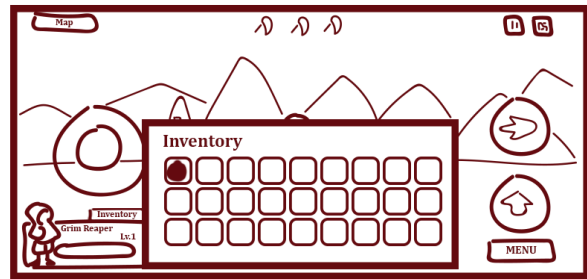
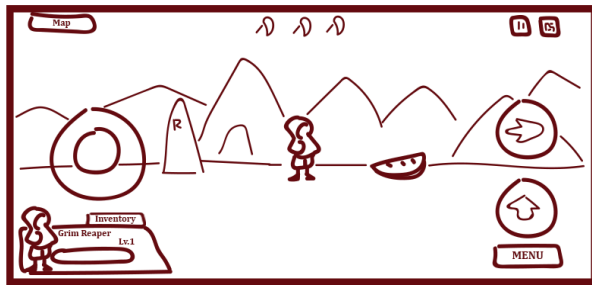
The camera in 'Grim Reaper' will provide a 3rd-person angle. This perspective ensures that players can fully immerse themselves in the side-scrolling platformer format, enabling easy navigation through the world and its intricacies while maintaining a consistent visual experience.

User Interface



Main Menu

- New Game: Embark on a new journey and discover the world
- Load Game: Access a specific saved progress and continue from that checkpoint
- Options: Customize audio options.
- Exit: Exit the game.



- Game Level UI
- Inventory System: Consumables the player picks up on the way to refill player's health, consumables types and location are randomly arranged every time.
- Health System: Player's life count and amount of hit points (HP), the HP can be refilled by consuming consumables, however, life count cannot be recovered.
- Achievement System: A list of quests assigned to the player. When the player completes quests, a reward will be granted.
- Map: A map indicating the player's position, enemy positions, and level checkpoints.
- Menu: It contains main menu options.
- Pause Button: The player can pause the game and resume
- Save Button: The player can save at any point of the game progress.



Game Win Menu

- Menu: Go back to the main menu scene
- Exit: Exit the game

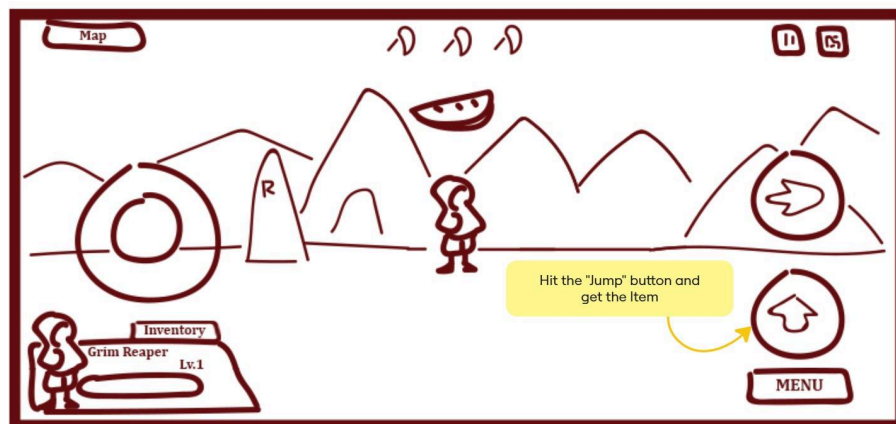
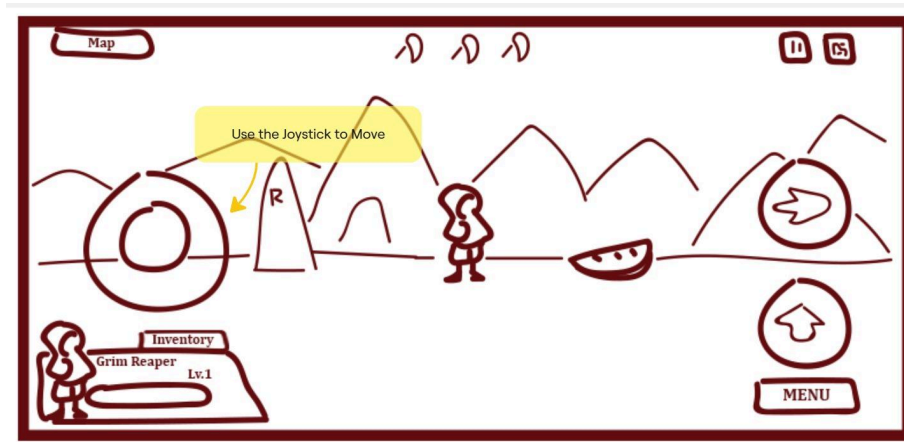


Game Over Menu

- Play Again: Go back to the game level to let player play again
- Menu: Go back to the main menu scene

The World Layout

Level 0: Tutorial



Level 1 - Adventure Starts (TBC)

Level 2 - Final Chapter (TBC)

Player Characters

“Grim Reaper: Loss of Memories” immerses players in the captivating journey of a young boy on a quest to recover his lost memories and ultimately ascend to the role of the Grim Reaper, all with the help of his newfound friend, Crow.

Main Character

Reaper: The main character on an adventure to collect fragments of his memory and ascend as the Grim Reaper.

Assistance Character

Crow: A companion who helps and protects Reaper during the adventure, providing unique abilities.

Player skills

Weapons

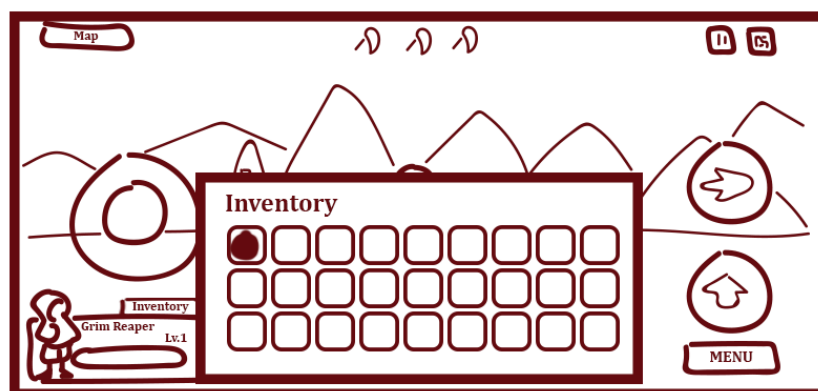
Crow

Abilities

Crow Attack: Shoot crows to attack

Player inventory tools

Players can store the HP consumables they collect on the way in the inventory box.



Power-ups

banana, watermelon, cherry

HUD System

Health Bar

- Total health is 100%.
- Each time the player takes damage, health decreases by 10%.

Lives

- The player starts with three lives.
- If health reaches 0%, the player loses one life.
- Losing all lives results in game over.

Death

When the player dies, the game reloads and returns to the location where they died.

Map

Players can use it to locate enemies, key and the door.

Inventory

Players can open or close the inventory box.

Checkpoints System

Players can find a key to unlock a door, which serves as a checkpoint for progress.

Achievement System

- Quest 1: Finish the tutorial
- Quest 2: Collect at least 1 items
- Quest 3: Kill at least 1 enemy
- Reward: Being sent to the location of the key

Bosses

Bad Boss Batty: The final boss who erased Reaper's memories to prevent him from ascending to the role of the Grim Reaper.

Enemies

Flamey, Bunny, and Doggy: Batty's subordinates who try to stop Reaper from collecting his memory fragments during the adventure, each introducing different challenges as the game progresses.

General enemy rules

Patroller: Enemies remain at their designated patrol station. When the player enters the area, they will initiate a chase.

Spawn Parameters: Enemies will attack when the player collides with them, causing a reduction in player health.

Defeat Parameters: There are no defeat parameters for patrollers; they continue to function regardless of player actions.

Non-player Characters

Chickens: Non-player characters that provide guidance or assistance to Reaper.

Design Notes

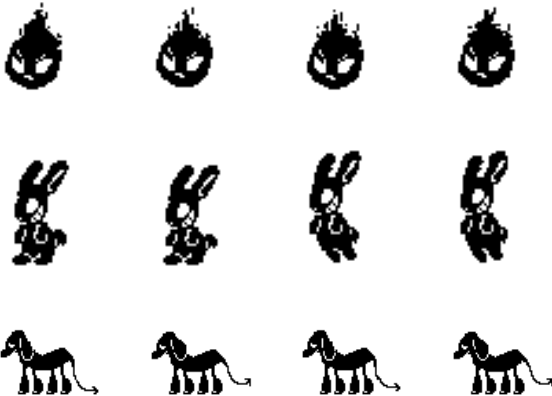
Reaper Design



Crow Design



Enemy Design



Music and Sound Effects

Background Music

- Main Screen
- Game Win/ Game Over
- Level 0: Tutorial
- Level 1: Adventure
- Level 2: Final Chapter

Sound Effects

- Walk/ Run
- Jump
- Crawl Attack
- Player Reborn
- Enemy Hit
- Button Click
- Achievement complete
- Game Win/ Game Over