Earth Shard



Proposal

Version 1.0

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# Overview

## Concept

You are an Earth elementalists and must face 4 trials to prove yourself to the master of Earth manipulation! You must use your abilities wisely to solve puzzles and defeat foes! Only then will you be able to become a master!

Earth Shard is a First-person shooter / puzzle game where you take the role of an initiate who is has discovered that they wield the power of earth manipulation and must face a series of trials to prove you have the wits and power to become a master of the element earth.

### Gameplay loop

The gameplay loop shifts slightly between the levels but the main focus is on puzzle solving and combat.

#### Combat

The combat loop involves dodging enemy projectiles and shooting your own projectiles back to take them down. Earth shard uses Unity’s physics systems here and you must consider the angle in which you [shoot your projectiles](#_Rock_throw) as they are affected by gravity.

#### Puzzle solving

On [level 2 onwards puzzles solving takes a larger focus with Level 1 having you wander a maze shooting at switches to open a door at the end of it and level 3 using the ground raise ability to platform out of a pit. Level 4 combines some of the puzzle aspects of 2 and 3 with the combat of level 1.](#_Levels)

### Main Objective

The main objective of Earth Shard is to make it to the end of each level and eventually become a master of the earth element by defeating all 4 trials.

## Look and feel

Earth Shard has an arid rocky feel to its environment to really embody the element of earth. The art style takes on a low poly aesthetic, this is both just an aesthetic choice and a practical choice as low poly assets are easy to blend and make if necessary.

## Scope

### Locations

The main overall location is a very arid desert mesa. There is a temple you enter in level 2 that will then exit to canyon that you escape from that opens into a rockier mesa much like the first location in Level 1.

### Levels

There are 4 levels each focusing on a different aspect of earth shard with the last level aiming to combine them all. The levels aim to scale in complexity as the earth shard progresses to keep the player engaged. With the final level aiming to really challenge the skills the player has learned from the other 3 levels.

### Player abilities

The player has 2 abilities they can utilise, one is a combat focused ability they can use to attack enemies or interact with switches. The second ability allows the player to raise themselves up which is useful for platforming or getting height advantage on enemies.

### Enemies

The enemies are rock golems to embody that earth element. The enemies use a state machine to control their AI with 3 different states: patrol, search and attack. The enemies when attacking will throw rocks at the player.

# Design

## Narrative

## Environment

## Characters

### Player

The players character itself doesn’t have a design as it is never seen from a 3rd person perspective. The player is represented through two arms that animate with abilities.

The player also has no voice lines. This is following the trope set in older first-person games such as halo and half-life where the player character can be a self-insert of the person actually playing the game.

A design may later be considered for the player if any art requires them to be represented but as of now the player is just some arms.

## User Interface

The UI of earth shard has rocky appearance with buttons looking like stones. The HUD is rather minimalistic as to not obstruct the gameplay and provide more immersion.

### Menus

//Insert menu flowchart here

### HUD

The HUD is only shown as the crosshair that changes shape based on what ability is equipped at the time. When the player takes damage, a red glow will appear and when the players health is low the red glow will remain on screen before disappearing after some passive healing. There is no displayed health bar as it felt obstructive.

//images of crosshairs and damage effect

## Camera Positioning

Being a first-person game, the camera will always be position from the perspective of the player. In the menus the camera will show environments in the background with the menu overlayed.

## Sound Effects

Most interactions in the game have sound effects. Any collision or interaction will have a sound to give feedback to the player. The player movement itself also has sound effects.

Ambient sounds of the environment will add to the immersion with the sound of wind blowing in the open desert sections cave like sounds within the temple area.

The enemies will also have some ambient sounds to alert the player of their location.

## Music

Music is sourced from 3rd party assets and will play through each level and in the menu. There are considerations to make some music for the game but that must wait till towards the end of development if time permits it.

# Levels

## Level 1 – Dunes

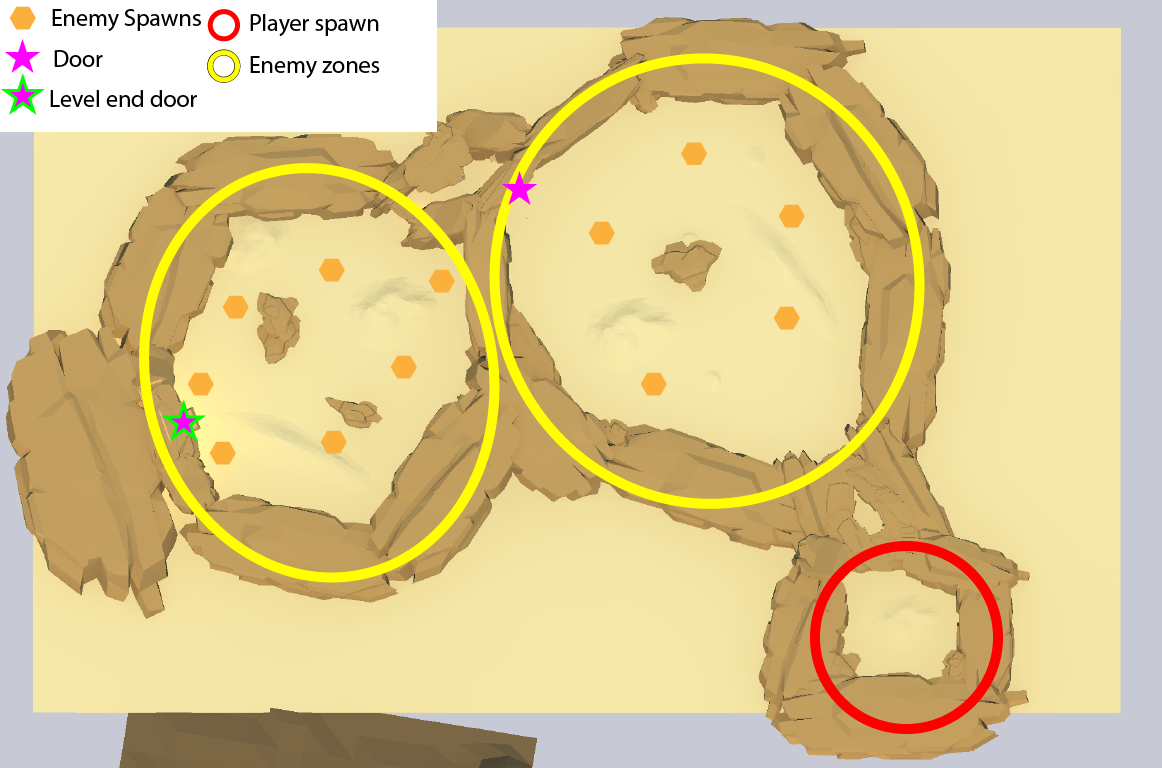
### Synopsis

Level 1 is rather open and only involves killing enemies to progress, keeping it simple will allow players to learn the controls and one of the main abilities before moving into more complex mechanics.

### Objective

Kill enemies in two sections; after killing all enemies in each section a door will open with the last door opening to the entrance of a temple leading to the next level.

### Map



## Level 2 – Labyrinth

### Synopsis

### Map

## Level 3 – The climb

### Synopsis

### Map

## Level 4 – Rite of passage

### Synopsis

### Map

# Mechanics

## Collisions and physics

## Player Mechanics

### Movement

### Abilities

#### Rock throw

#### Ground raise

### Player Health

### Arm animations

### Interactions

## Enemies (rock golems)

### AI (state machine)

#### Patrol State

#### Attack State

#### Search State

### Enemy Health

## Interactable entities

### Switches

### Signs

### Buttons

# Appendices

## Concept art

## Unused content