STIGMA

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1. Introduction

"STIGMA" is a 2D platform fighter game which allows play in single player and multiplayer mode.

1.1. Local Single Player

It is short adventure exploring the recesses of the dark magic land. At the beginning player can chose only one character but during passing the levels our main character will be fighting which other heroes. Each land has its own unique creatures and their hero. Defeating him allows unlock characters, which be able to chosen by player in multiplayer mode.

1.2. Multiplayer

It is mode which have been created in order to assure players rivalry via a network connection or localhost. Up to 4 players fights on small area until one of players wins battle.

2. Mechanics

Heroes have health points and energy which amount depends on own statistic. To increase dynamic of fights, player can jump twice. Every character has own special skills, which create unique combination of fight. Each skill can be cast in 3 levels of power. Higher levels cost more energy but also increase damage of spells. Skills can be used only if weapon is not wielding. Skills divide into: magic attack, physical attack, defensive, applying positive and negative effects. Weapons are unique for specific characters. Weapon attack can be use if weapon is wielding. Attack have randomly damage depends of character specification and can by executed while character don't move, running or during jumping. Jump attack have the greatest interval of damage.

3. Technologies

- Game engine UNITY
- Integrated Development Environment Microsoft Visual Studio 2017
- Programming language C#
- Animation Spriter
- Graphics GIMP 2

4. Implemented in the current version

4.1.Game elements

Character:

- Fully animated
- Two specials skills (water ball and water implosion)
- Three version sword attack

Map:

- Small map with two platforms and additional background elements
- Close play zone

Graphics:

- Map's background was downloaded from ferdinandladera.deviantart.com
- Menu background from <u>jjcanvas.deviantart.com</u>
- Font: JMH Moreneta
- Character and skills are fully animated.

Character mechanics:

- Collisions and move
- Applying damage system
- Regeneration and consumption of energy points
- Three level of spell power
- Attack and cast spell cooldowns
- Water ball spell single projectile magic attack
- Water implosion Enlarging Circle per second witch push back enemy and deals damage
- Sword attacks: standing attack, running attack and jumping attack
- Play zone limited area which cause death to player when exits area
- Death conditions: losing all HP, falling down from platforms

Menu:

- Start game button
- Authors button
- Option button not implemented
- Exit button
- Singleplayer/Multiplayer button

Singleplayer:

- Small map for testing working mechanics of game
- Allows playing two characters using one keyboard
- All mechanics implemented

Multiplayer:

- Allows to local connection for up to four players
- Character is created when player join game
- Mechanics are implementing (Applying damage, energy system, spell power, cooldowns, spells, play zone are testing and modified for multiplayer)

5. Game instructions

5.1. Menu

5.1.1. Main menu

- Start Game opens sub menu with game mode buttons: Singleplayer and Multiplayer.
- Options unavailable in current version.
- Authors shows game authors on left side of menu.
- Exit exit game, closes the application.

5.1.2. Game mode menu

- Singleplayer launches the game in single player mode, all players in one application.
- Multiplayer launches the game in multiplayer mode, one player hosts game, other players connect from other application.

5.2. In game control

5.2.1. Player 1

- A move left
- D move right
- W-jump
- Q pull out/hide weapon
- R sword attack
- T use first skill
- Y use second skill
- F1 use low power of skills
- F2 use medium power of skills
- F3 use high power of skills
- ESC pause menu

5.2.2. Player 2:

- \leftarrow (left arrow) move left
- \rightarrow (right arrow) move right
- ↑ (up arrow) jump
- NUM 7 pull out/hide weapon
- NUM 4 sword attack
- NUM 5 use first skill
- NUM 6 use second skill
- NUM 1 use low power of skills
- NUM 2 use medium power of skills
- NUM 3 use high power of skills
- ESC pause menu