

Requirements and Analysis Document for group

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v1.0

1 Introduction

We have indentified a huge gap in the world of clicker games, namely Lord of the Rings based clicker games. Our project aims to fill that gap. This game will simulate the adventure of Frodo and friends on their quest to destroy the one ring, and will benifit anyone who likes both LOTR and clickers. This game might be useful on the bus, to pass the time when moving between locataions, or when sitting on the toilet.

1.1 Definitions, acronyms, abbreviations

LOTR: Lord of the Rings.

2 Requirements

2.1 User interface

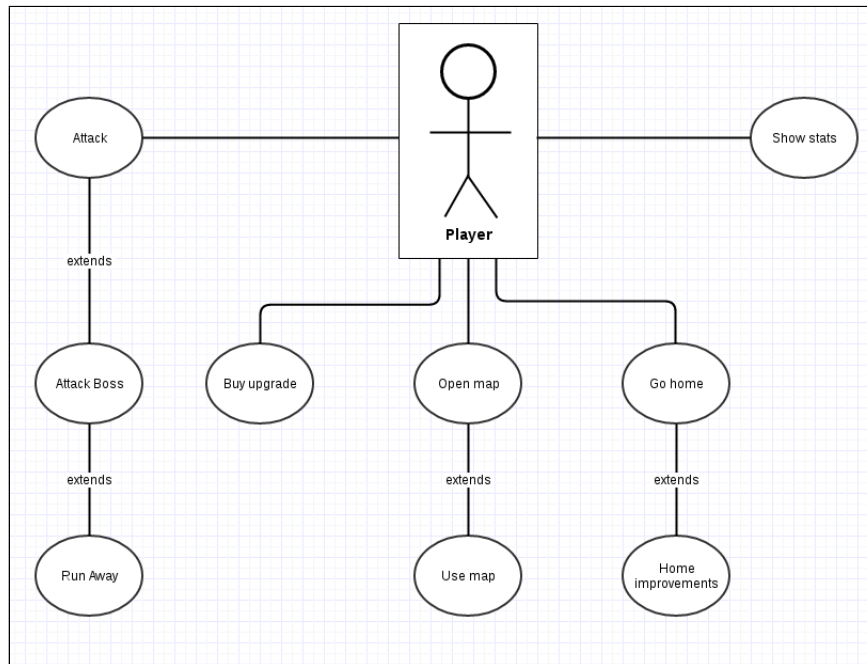
2.2 Functional requirements

- Attack
- Open map
- Use map
- Buy upgrades
- Go home
- Improve home
- Check stats

2.3 Non-functional requirements

3 Use cases

3.1 Usability model



3.2 Use case listings

3.2.1 Use case: Attack

Summary: The user clicks the screen and the game calculates new health for the monster.

Priority: High

Extends: undefined

Includes: undefined

Participants: Player

Normal flow of event: The player attacks the monster and the monster survives.

	Actor	System
1	Player clicks screen	
2		Attack animation plays
3		Calculate new health for monster

Alternate flow: The player attacks the monster and the monster dies. The level is not cleared.

	Actor	System
1	Player clicks screen	
2		Attack animation plays
3		Calculate new health for monster
4		Health ≤ 0
5		Death animation plays
6		Replace dead monster with new monster
7	Player gets money	

Alternate flow: The player attacks the monster and the monster dies. The level is cleared.

	Actor	System
1	Player clicks screen	
2		Attack animation plays
3		Calculate new health for monster
4		Health ≤ 0
5		Death animation plays
6		Replace dead monster with new monster
7		The option to change level is made avliable
8	The player gets money	

3.2.2 Use case: Attack boss

Summary: The player is fighting a boss

Priority: High

Extends: Attack

Includes:

Participators: Player

Normal flow of event: The player attacks the boss and defeats it within the time frame

	Actor	System
1	Player clicks screen	
2		Attack animation plays
3		Calculate new health for boss
4		Death animation plays
5		Unlock next level
6		Replace boss
7	Player gets money	

Normal flow of event: The player attacks the boss and does not defeat it, but is still within the time frame

	Actor	System
1	Player clicks screen	
2		Attack animation plays
3		Calculate new health for boss

Alternate event: The player does not defeat the boss within the time frame

	Actor	System
1		Replace boss

3.2.3 Use case: Run away

Summary: The player wants to run away from the fight.

Priority: Medium

Extends: Attack boss

Includes:

Participators: Player

Normal flow of the event: The player clicks the "run away" button.

	Actor	System
1	The player clicks the button	
2		Sends the player to Home

3.2.4 Use case: Buy upgrade

Summary: The user tries to buy an upgrade.

Priority: Medium

Extends: undefined

Includes: undefined

Participators: Player

Normal flow of event: The player clicks on the upgrade and has enough money.

	Actor	System
1	Player clicks on the upgrade	
2		Checks that the player has enough money to buy the upgrade
3		The upgrade is applied to the player

Alternate flow: The player clicks on the upgrade but does not have enough money.

	Actor	System
1	Player clicks on the upgrade	
2		Checks that the player has enough money to buy the upgrade

3.2.5 Use case: Open map

Summary: The player clicks the button labeled "map" Priority: Medium

Extends: undefined

Includes: undefined

Participators: Player

Normal flow of event: The player clicks the button labeled "map"

	Actor	System
1	Player clicks on the button	
2		Displays map page

3.2.6 Use case: Use map

Summary: The user tries to move to a different level.

Priority: High

Extends: undefined

Includes: undefined

Participators: Player

Normal flow of event: The player clicks on the level they want to move to, the level is unlocked.

	Actor	System
1	Player clicks on the level	
2		Checks that the level is unlocked
3		Loads new level

Alternate flow of event: The player clicks on the level they want to move to, the level is locked.

	Actor	System
1	Player clicks on the level	
2		Checks that the level is unlocked

3.2.7 Use case: Show stats

Summary: The use clicks the button labeled "Stats"

Priority: low

Extends: undefined

Includes: undefined

Participators: Player

Normal flow of event: The player clicks the button labled "Stats"

	Actor	System
1	Player clicks on the button	
2		Displays stats page

3.2.8 Use case: Go home

Summary: The user wants to go home

Priority: Low

Extends: undefined

Includes: undefined

Participators: Player

Normal flow of event: The player clicks the button labeled "Home"

	Actor	System
1	Player clicks on the button	
2		Displays the player home screen

3.2.9 Use case: Home improvements

Summary: The user wants to improve their home

Priority: low

Extends: undefined

Includes: undefined

Participators: Player

Normal flow of event: The player wants to buy an animal, has enough money and enough space.

	Actor	System
1		Checks that player has enough money
2		Checks that player has enough space
3		Enables button.
4	Player clicks on a buy animal button	
5		Deduct money from player
6		Add animal to home

Alternate flow: The player wants to buy an animal, does not have enough money

	Actor	System
1		Checks that player has enough money
2		Checks that the player has enough space
3		Does not enable button

Alternate flow: The player wants to buy an animal, does not have enough space

	Actor	System
1		Checks that player has enough money
2		Checks that the player has enough space
3		Does not enable button

Alternate flow: The player wants to buy more space, has enough money.

	Actor	System
1		Check that the player has enough money
2		Enables button.
3	Player clicks on button	
4		Deduct money from player
5		Add more space to player

Alternate flow: The player wants to buy more space, does not have enough money.

	Actor	System
1		Check that the player has enough money
2		Does not enable button.

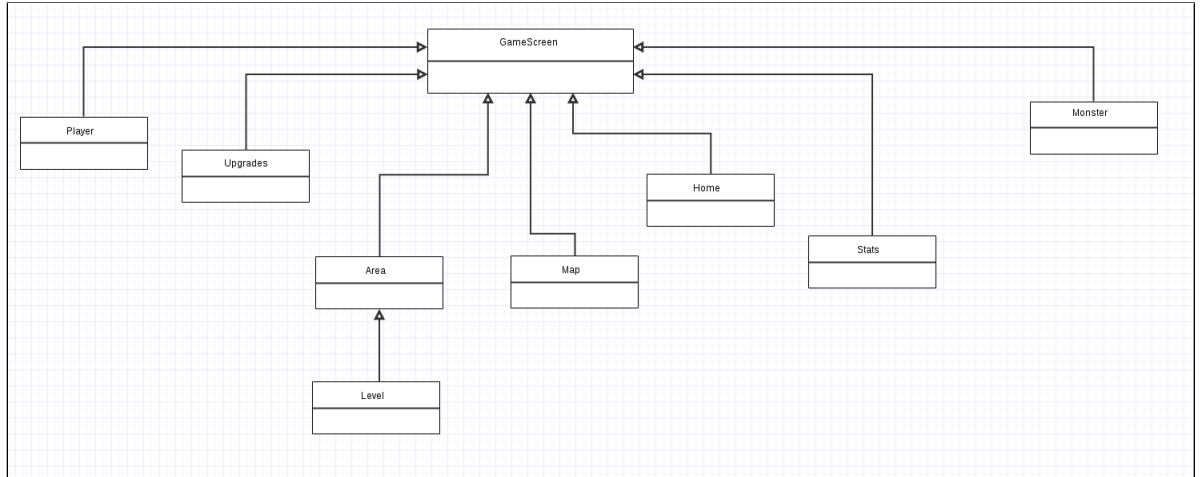
Alternate flow: The player wants to sell an animal, has animals.

	Actor	System
1		Checks that player has animals
2		Enable button
3	Player clicks button	
4		Remove one animal from player
5		Add money to player

Alternate flow: The player wants to sell an animal, has no animals.

	Actor	System
1		Checks that player has animals
2		Does not enable button

4 Domain model



4.1 Class responsibilities

4.1.1 Game screen

Combines all other classes into one unified interface.

4.1.2 Player

The actual player. Has money, animals, space, and an amount of damage.

4.1.3 Monster

A bad guy. Has health points, and an amount of money to drop.

4.1.4 Stats

A view for the players stats.

4.1.5 Map

A view for a map over the levels that a player can travel to.

4.1.6 Upgrades

A view over the upgrades that a player can buy.

4.1.7 Home

The players home. Here the player can buy animals which earn passive money.

4.1.8 Area

An area, has a name, and a list of levels associated with that area.

4.1.9 Level

Determines how hard the monsters are, and how much money they drop.

5 References