

Iteration 1: Detailed Use Cases

Detailed Use Cases (Iteration 1) for System TwitterNethack

Assignment in the course PA1415 Programvarudesign

2017-04-10

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System Description

Nethack is an old game where you walk in a dungeon and explore. Each level has a different landscape which is generated randomly. The objective of the system we are going to develop is to make a similar game where the map is generated by Twitter feeds. The system shall also follow a list of requirements.

ID	Use Case Name	Story Points
1	Player starts a new game	15
15	Item interaction	15
20	Player dies	5
4	Player interacts with new item	10
5	Player interacts with gear in his backpack	10
16	Enter new cave	15
21	Character movement	10

Use Case #1

Use Case: Player starts a new game

Actors: Player

Description: The player starts the game and sees an opening screen with two options: Start a new game or join an existing game. The player selects “new game”

Preconditions: Player must have the game

Concerned user stories: 1

Main Course of Events:

Actor	System
1. Players starts the game	
	2. System displays an opening screen with a menu
3. Player selects the item “New game” on the menu	
	4. System starts a new game

Alternate flow of events: None

Use Case #15

Use Case: Item interaction

Actors: Player, System

Description: Display interaction options for item based on item type. Player can choose from the options and the system will execute it.

Preconditions: 1. Player must be in a cave. 2. Item must be usable. **Concerned user stories:** 3, 4

Actor	System
1. Player opens his backpack	
2. Player selects an item and enter “use”	
	3. System executes the items function

Alternate flow of events:

1. Item has no uses, system informs player
2. Player has no item in his backpack, system displays message to the user

Use Case #20

Use Case: Player dies

Actors: System, Player

Description: Player sets off event that leads to player Characters HP becoming 0. Game over screen appears and then the player is taken to title screen.

Preconditions: 1. Player must be in a cave.

Concerned user stories: 11

Actor	System
1. Player gets injured and health points become 0	

	2. System ends game session
	3. Player is taken to the title screen

Alternate flow of events: 1. Player has health left. The player loses health points instead.

Use Case #4

Use Case: Player interacts with new item
Actors: Player
Description: Player finds item in labyrinth
Preconditions: 1. Player must be in a cave. 2. There must be an item in the cave
Concerned user stories: 3
Main Course of Events:

Actor	System
	1. System informs about found item
2. Player press key to interact with item	
	3. System display information about item
4. Player saves item or lets it stay on the ground.	
	5. System saves data about items state

Alternate flow of events: 3. The item does not have any actions, system displays a message to the user that no actions exists.

Use Case #5

Use Case: Player interacts with gear in his backpack.
Actors: Player, System
Description: Player gets information about gear and items.
Preconditions: There must be an item in the backpack that is interactable
Concerned user stories: 3, 4
Main Course of Events:

Actor	System
1. Player enters item menu	
	2. System display gear and items
3. Player marks item or gear	
	4. System display information about item

5. Player exit menu	
	6. System save any new state of item or gear

Alternate flow of events: 3. Player do not have any items in his backpack

Use Case #16

Use Case: Enter new cave

Actors: Player, System

Description: On entering a new cave the system informs the player about information and the owner of the cave.

Preconditions: 1. Player must have started the game 2. There needs to be caves

Concerned user stories: 14

Actor	System
1. Player enters cave	
	2. System displays a text about the cave and it's owner

Alternate flow of events: 1. There is no caves available. System notifies the player

Use Case #21

Use Case: Character movement

Actors: System, Player

Description: Player enters direction to move in. System responds by moving the players location.

Preconditions: 1. Player must be in a cave.

Concerned user stories: 21

Actor	System
1. Player enters direction to move	
	2. System updates players location