

# Interaction Diagrams for System TwitterNethack

Assignment in the course PA1415 Software Design 2017-05-01

# **Authors and Authors contribution**

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### **System Description**

The goal of this system is to create a game based on the idea of the game Nethack. The system shall adopt the rules of the original Nethack to keep its flare.

The most interesting feature for the system is the map generation where the maps can be generated with the Twitter API. The map generation can also work offline without the usage of the Twitter API.

The system also includes multiplayer support. User are able to access games online via the internet or offline via a LAN.

#### **Prioritised list of Use Cases**

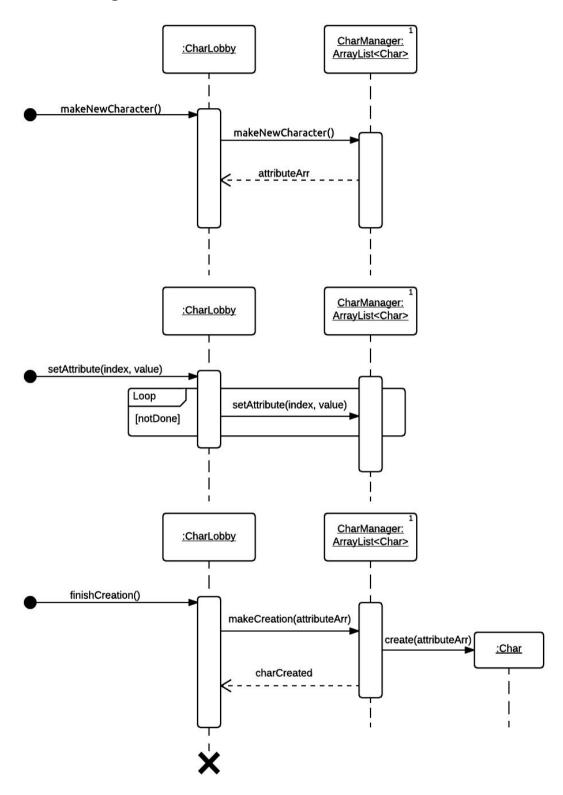
- 1. Create character 361 story points
- 2. Enter room 141 story points
- 3. Open dialogue with entities 113 story points
- 4. Engage combat with entities 183 story points
- 5. Pick up items 293 story points
- 6. Use item 233 story points
- 7. Generate level 663 story points
- 8. Start new game 521 story points
- 9. Open inventory 88 story points
- 10. Join existing game 431 story points
- 11. Save game 63 story points
- 12. Load game 40 story points
- 13. Show event log 21 story points
- 14. Show help 13 story points
- 15. Drop/discard item 8 story points
- 16. Player chat 5 story points
- 17. Play tutorial 3 story points

### **System Events**

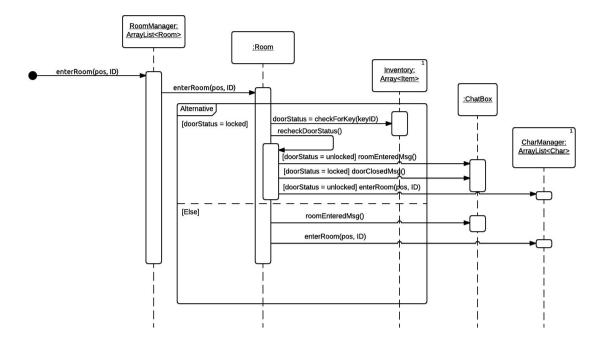
- 1. System events for Use Case: Create Character
  - makeNewCharacter
  - setAttribute
  - finishCreation
- 2. System events for Use Case: Enter room
  - enterRoom
- 3. System events for Use Case: Engage combat with entities
  - startCombat
  - combatAction
  - endCombat
- 4. System events for Use Case: Open dialogue with entities
  - startDialogue
  - sendMessage
  - endDialogue
- 5. System events for Use Case: Pick up items
  - pickUpItem
- 6. System events for Use Case: Use item
  - useltem
- 7. System events for Use Case: Generate level
  - startGame
- 8. System events for Use Case: Start new game
  - startNewGame
- 9. System events for Use Case: Open inventory
  - openInventory
- 10. System events for Use Case: Join existing game
  - joinExistingGame(IP)

# **Interaction Diagrams**

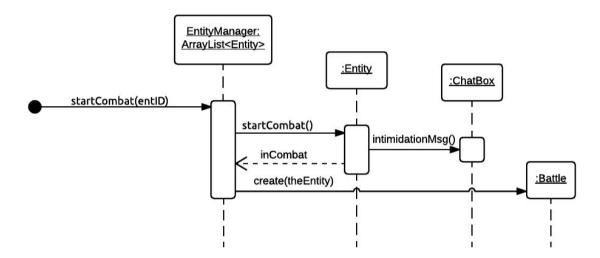
Interaction Diagrams for Use Case: Create new character

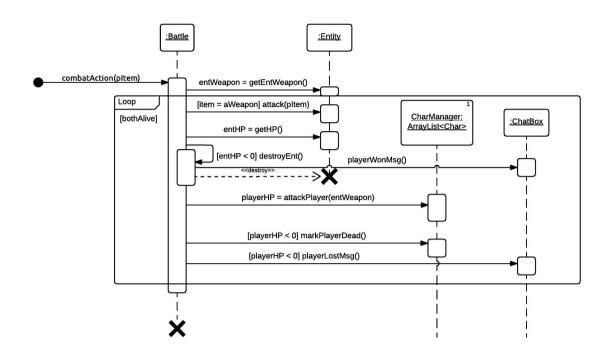


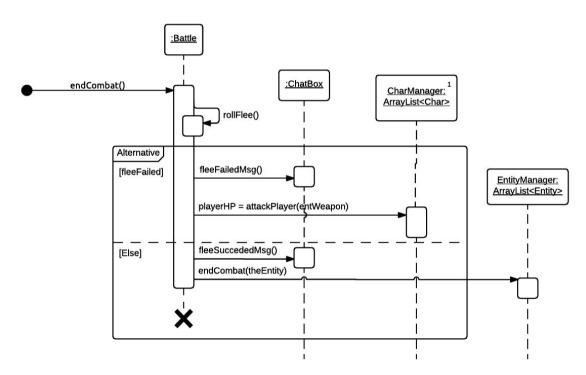
## Interaction Diagram for Use Case: Enter room



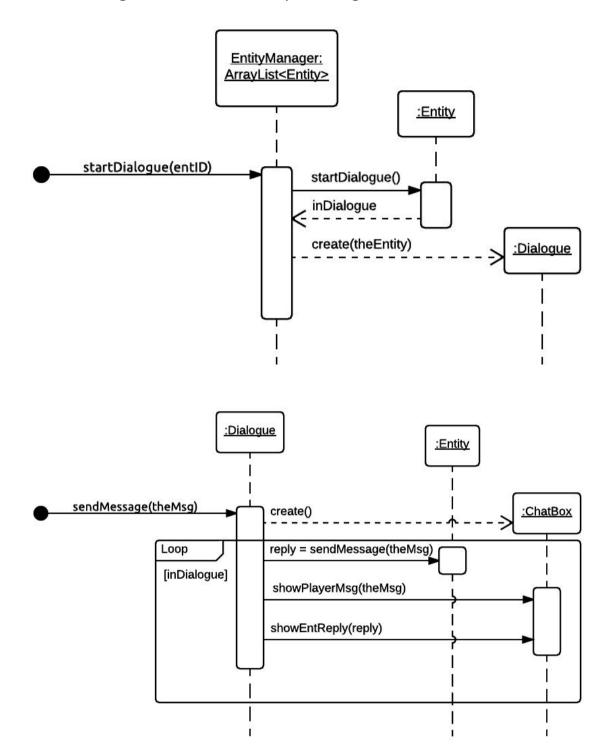
## Interaction Diagrams for Use Case: Engage combat with entities

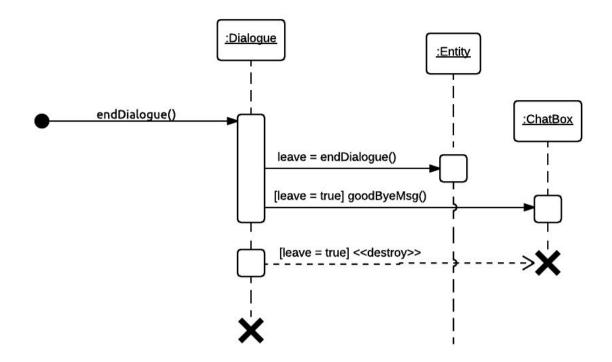






# Interaction Diagrams for Use Case: Open dialogue with entities





# Interaction Diagram for Use Case: Pick up items

