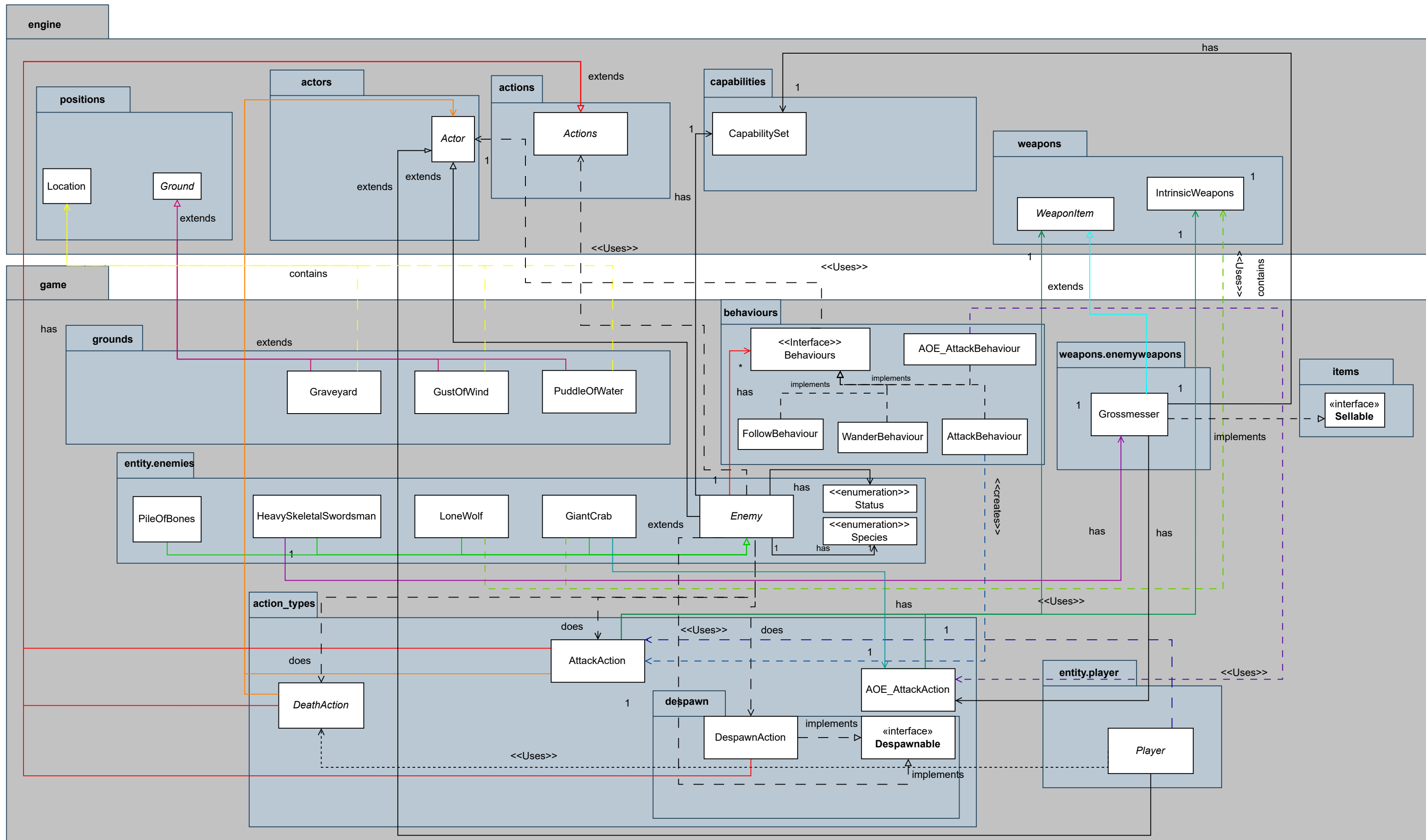


Req 1



The diagram illustrates the relationships between various classes in a game engine and game modules. It is divided into two main sections: **engine** and **game**.

engine section:

- weapons package:** Contains the *WeaponItem* class. It is extended by an external class (indicated by a solid line with an open arrow).
- items package:** Contains the *Item* class, *DropWeaponAction*, and *PickUpWeaponAction*.
 - DropWeaponAction* has a *do* dependency on *Item* (dashed line with an open arrow).
 - PickUpWeaponAction* has a *sees* dependency on *Item* (dashed line with an open arrow).
- actions package:** Contains the *Action* class and *DoNothingAction*.
 - DoNothingAction* extends *Action* (solid line with an open arrow).
 - DoNothingAction* has a *does* dependency on *Item* (dashed line with an open arrow).
- actors package:** Contains the *Actor* class. It is extended by an external class (indicated by a solid line with an open arrow).

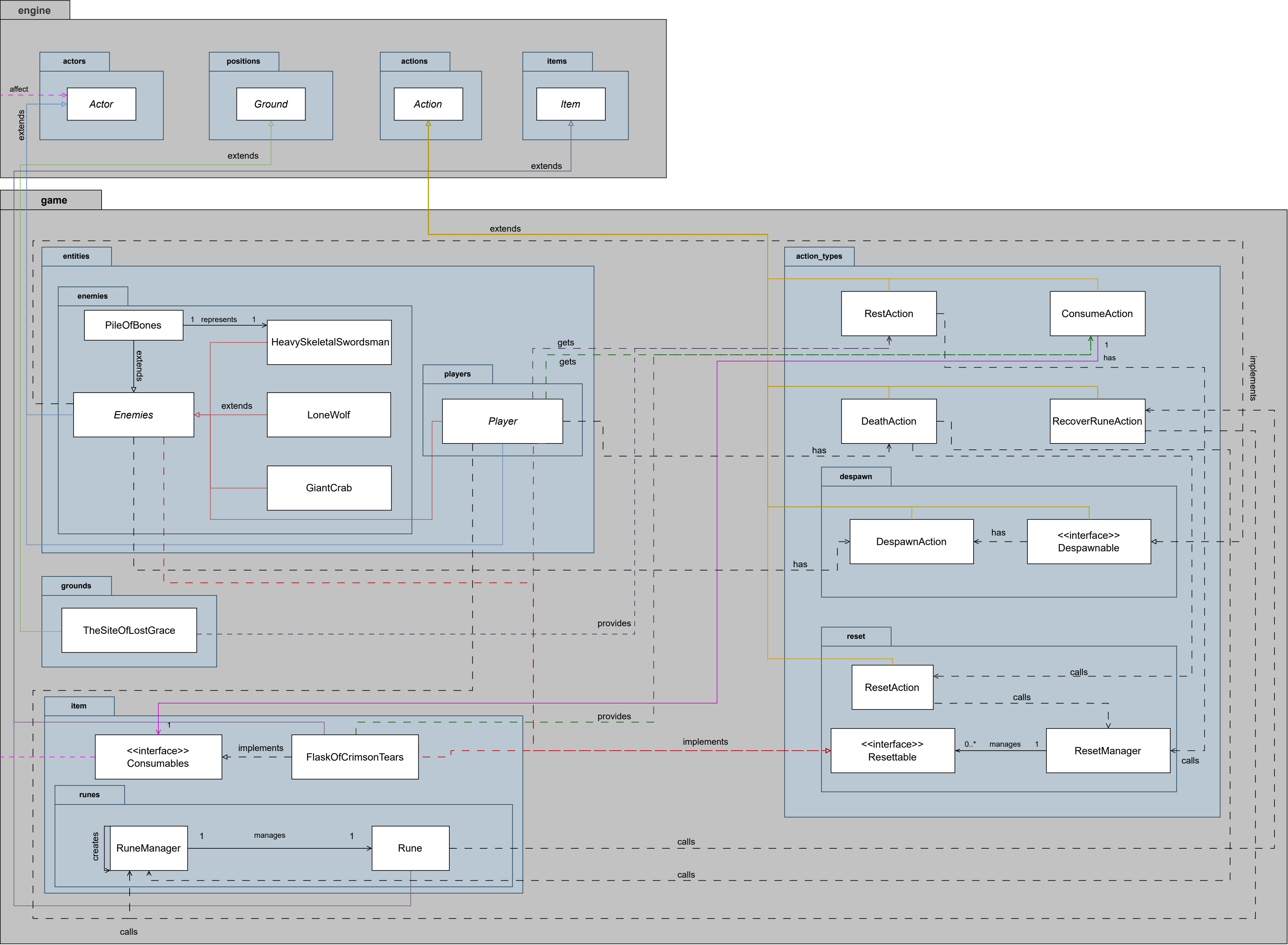
game section:

- entities package:** Contains the *Enemies* class.
 - Enemies* is extended by *LoneWolf* and *GiantCrab* (solid lines with open arrows).
 - GiantCrab* represents *HeavySkeletalSwordsman* (solid line with an open arrow, labeled *1*).
 - HeavySkeletalSwordsman* represents *PileOfBones* (solid line with an open arrow, labeled *1*).
 - Enemies* has an *extends* dependency on *Actor* (dashed line with an open arrow).
- players package:** Contains the *Player* class. It has a *does* dependency on *Item* (dashed line with an open arrow).
- npc package:** Contains the *Trader* class. It provides a *provides* dependency on *Item* (dashed line with an open arrow).
- weapons package:** Contains the *playerweapons* and *enemyweapons* packages.
 - playerweapons* contains *Uchigatana*, *Great Knife*, and *Club*.
 - enemyweapons* contains *Grossmesser*.
 - The *weapons* package implements the *Purchasable* and *Sellable* interfaces (solid lines with hollow triangle).
- action_types package:** Contains the *BuyWeaponAction*, *SellWeaponAction*, and *DeathAction* classes.
 - BuyWeaponAction* has a *buy* dependency on *Item* (dashed line with an open arrow).
 - SellWeaponAction* has a *sell* dependency on *Item* (dashed line with an open arrow).
 - DeathAction* has a *death* dependency on *Enemies* (dashed line with an open arrow).
- runes package:** Contains the *Runes* class.
 - Runes* is created by *RunesManager* (solid line with an open arrow, labeled *<<creates>>*).
 - RunesManager* uses *Runes* (solid line with an open arrow, labeled *1 manages 1*).
 - RunesManager* uses *Item* (dashed line with an open arrow).

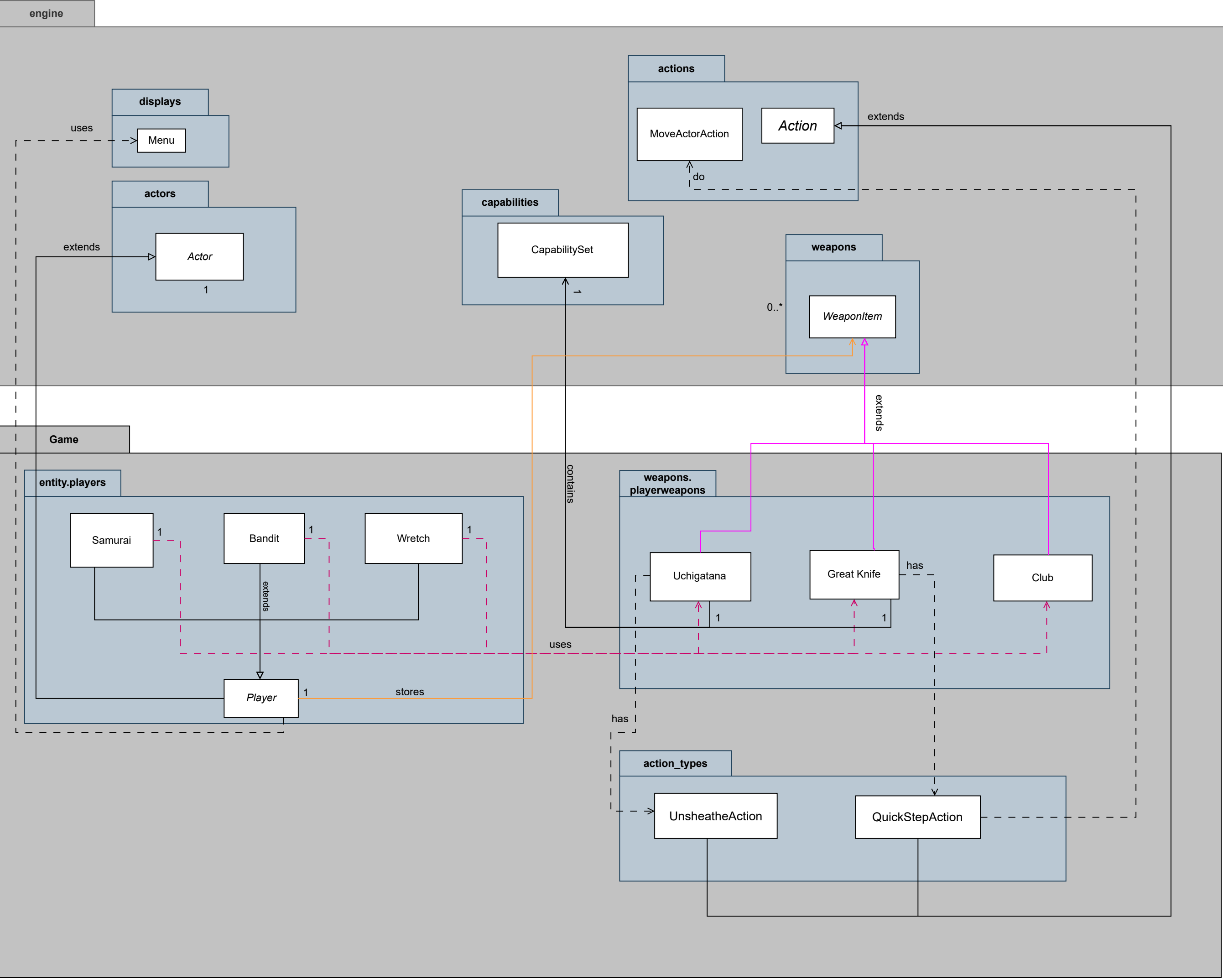
Inter-module dependencies (dashed lines):

- The *game* module depends on the *engine* module (indicated by a dashed line with an open arrow).
- The *game* module depends on the *action_types* module (indicated by a dashed line with an open arrow).

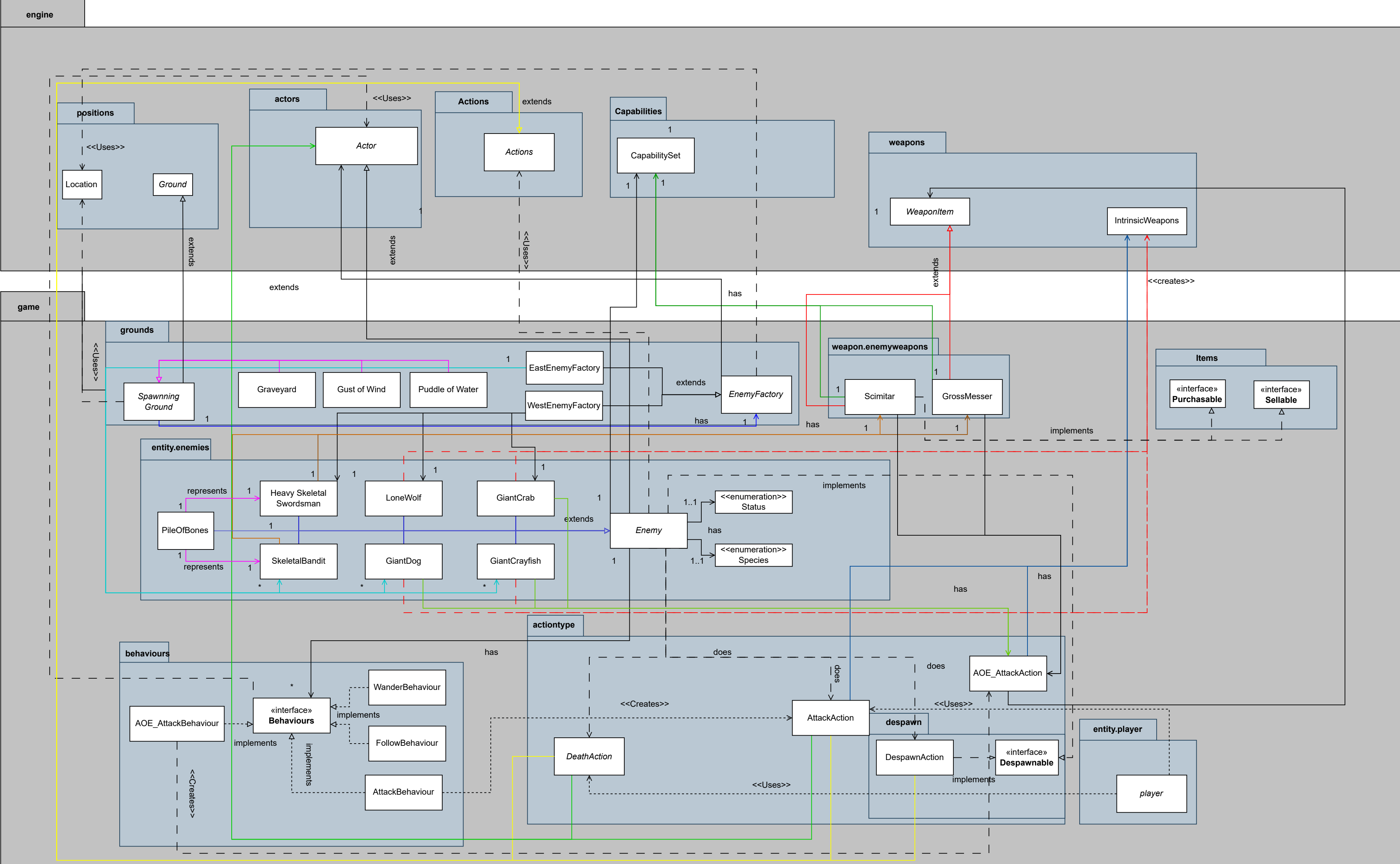
Req 3



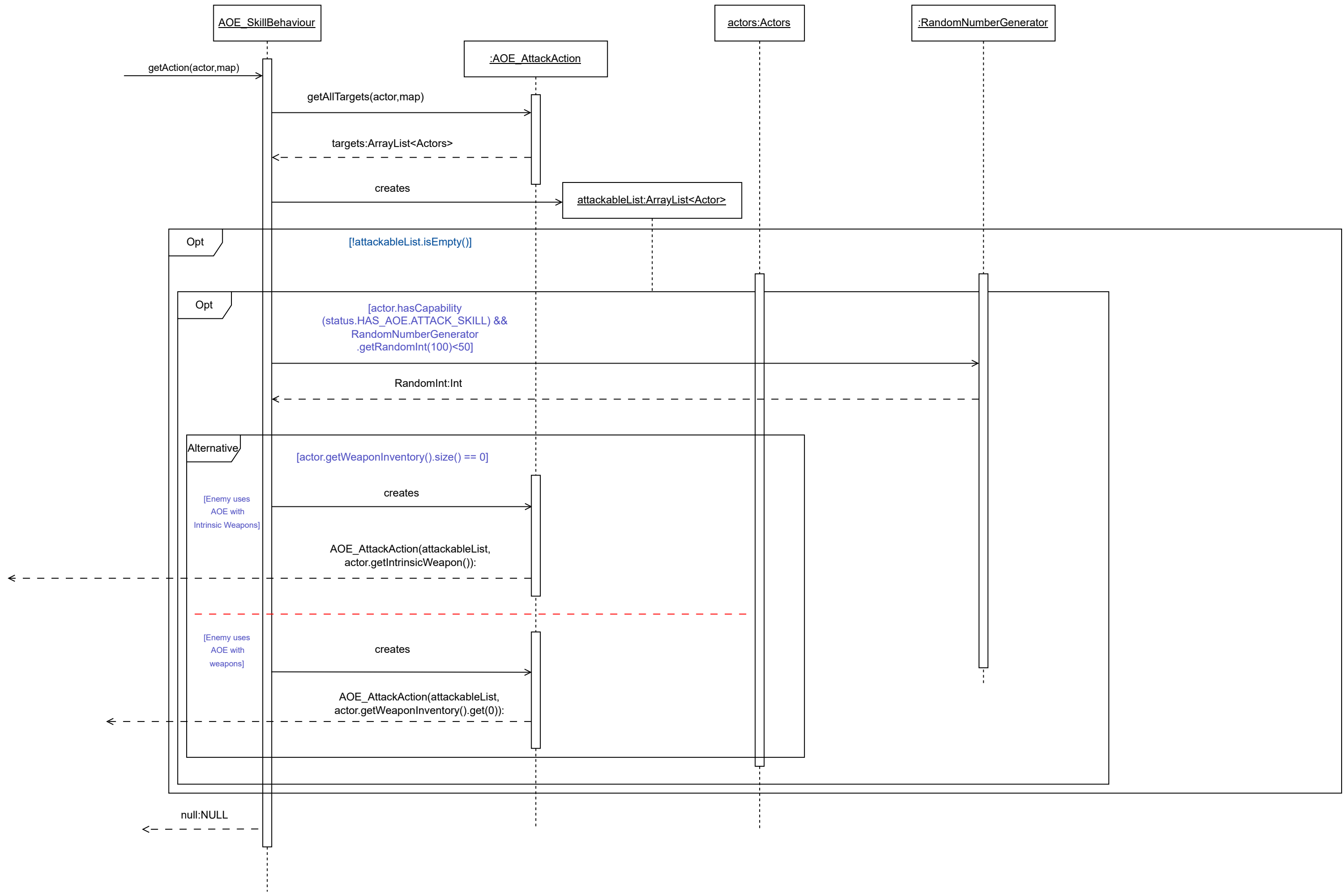
Req 4



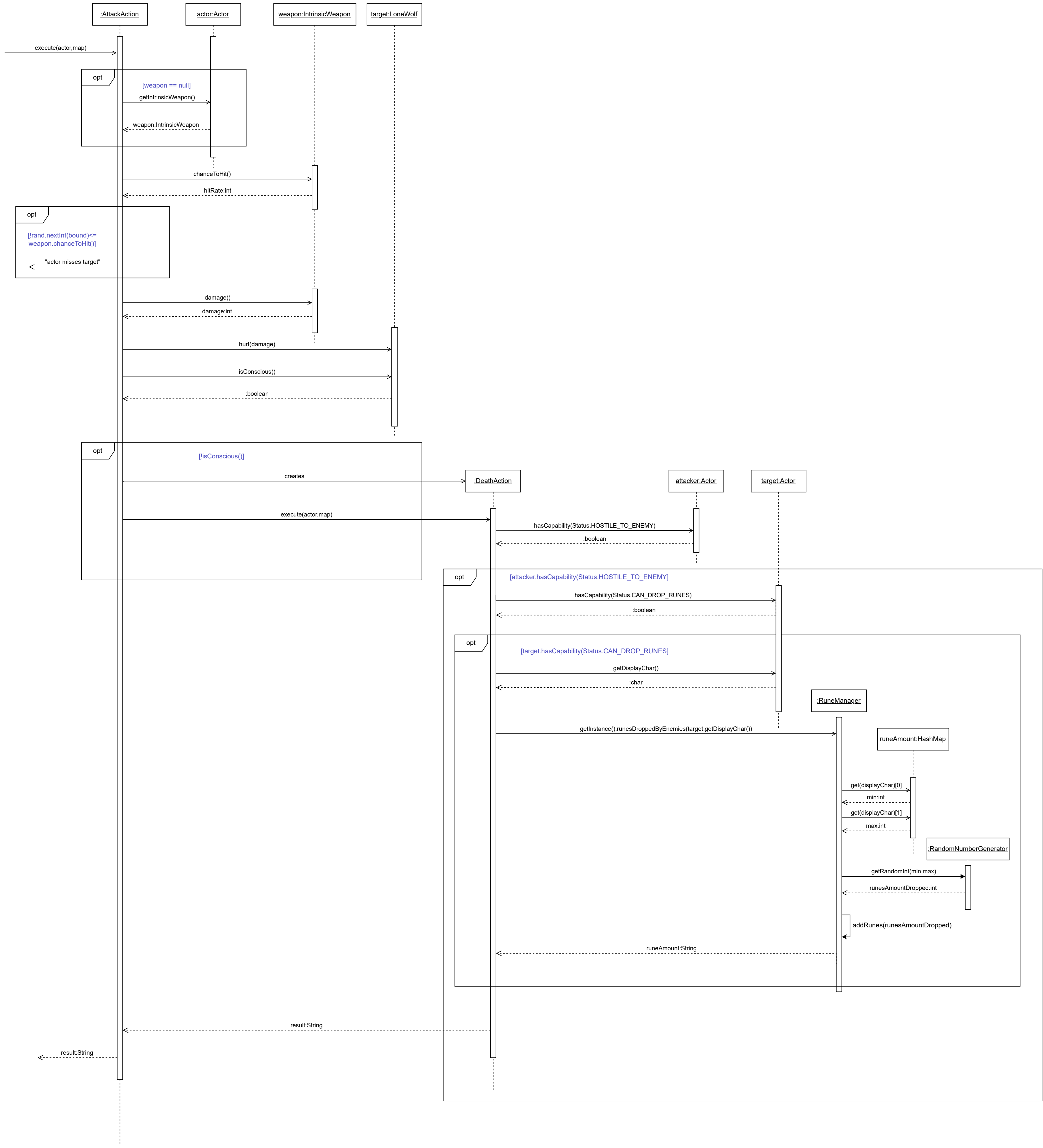
Req 5



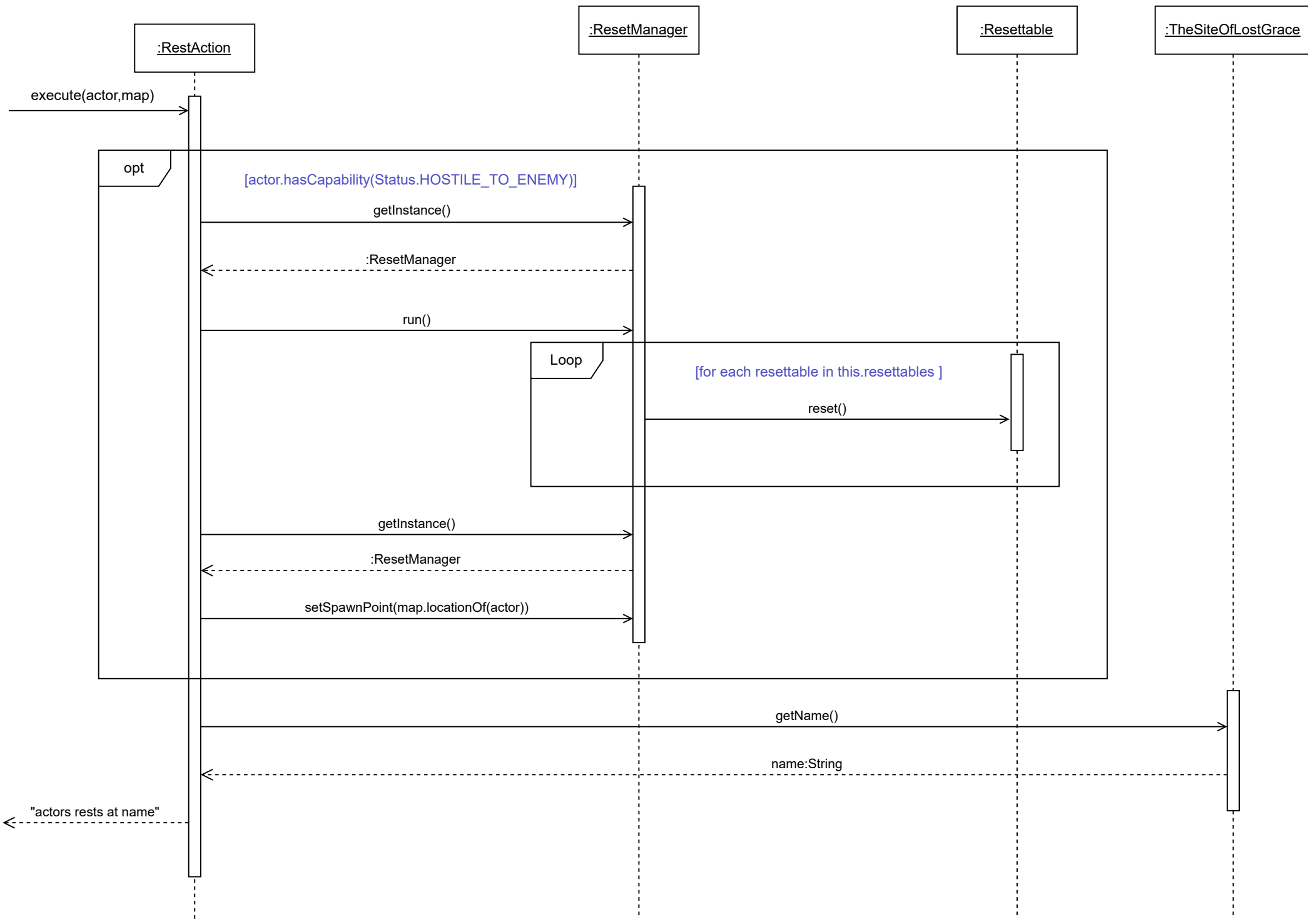
Scenario: A Giant Crab with AOE_SkillBehaviour



Scenario: Player attacks a Lone Wolf with an intrinsic weapon and obtain runes after killing it



Scenario : Player will rest at TheSiteOfLostGrace which causes a game reset



Scenario:
Samurai attacks a Lone Wolf using its unsheathe skill

