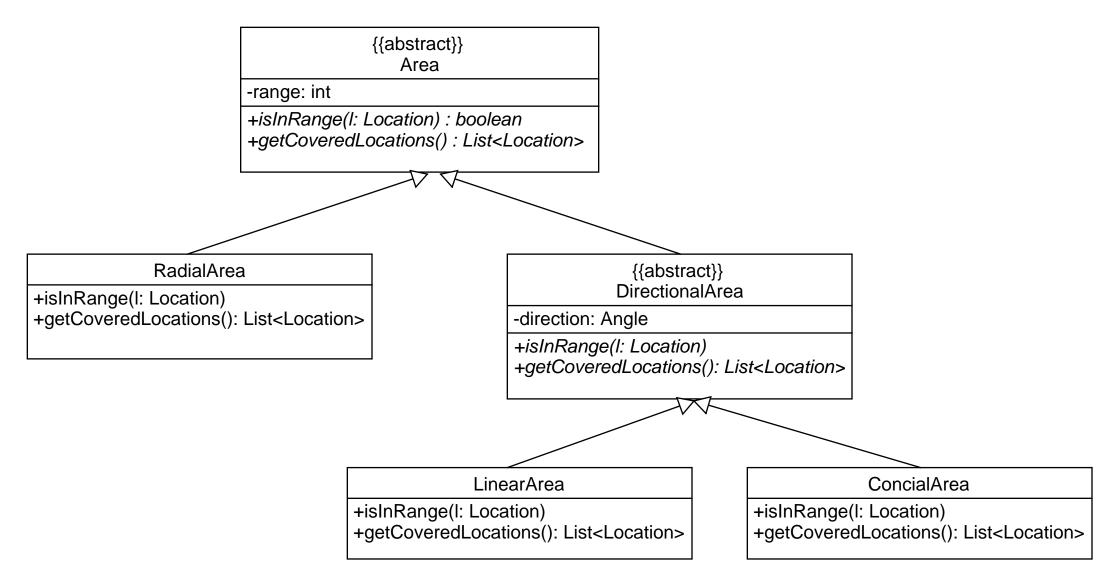
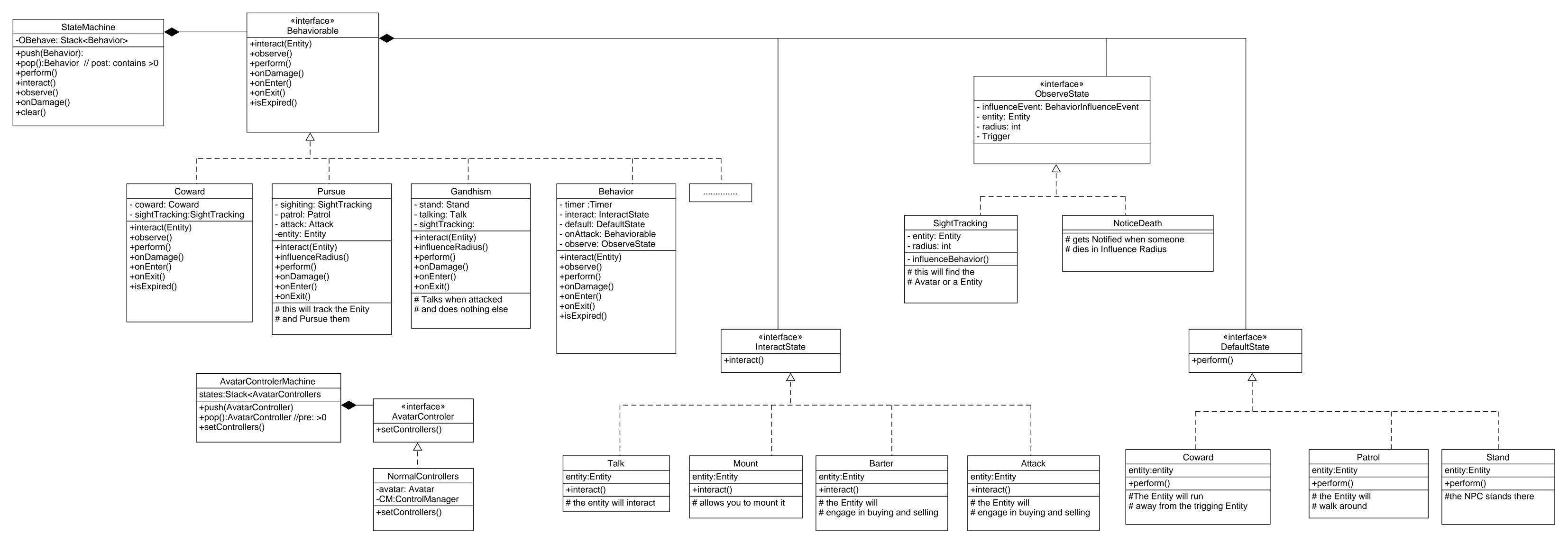


```
«Enum»
           Angle
UP RIGHT: 45
UP: 90
UP LEFT: 135
DOWN LEFT: 225
DOWN: 270
DOWN RIGHT: 315
-theta: int
+getAngle(): int
+sin(): double
+cos(): double
```





MainMenuController	CharacterSelectionMenuController	LoadMenuController	SaveMenuController	GameplayController	
-mainMenuLayout	-characterSelectionLayout	-loadMenuLayout	-saveMenuLayout	-gameplayLayout	
setLayout(JPanel) +newGame() +loadGame() +exitGame()	setLayout(JPanel) +selectSmasher() +selectSummoner() +selectSneak() +goBack()	setLayout(JPanel) +selectSlot(int) +loadGame() +goBack()	setLayout(JPanel) +selectSlot(int) +saveGame() +goBack()	setLayout(JPanel) doAllThings()	
EntityController	CameraController	PauseMenuController			
EntityController		-pauseMenuLayout	InventoryMenuController	SkillsMenuController	
EntityController +setKeyBindings()	CameraController + setKeyBindings()		InventoryMenuController -inventoryMenuLayout	SkillsMenuController -skillMenuLayout	

TradeMenuController

+ sellItem(itemSlot: int)
+ buyItem(itemSlot: int)

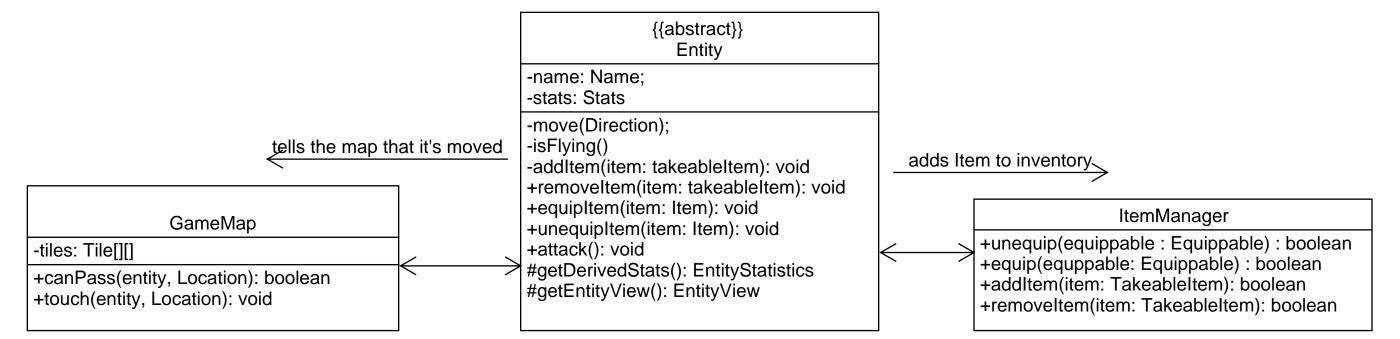
-tradeLayout

+ goBack()

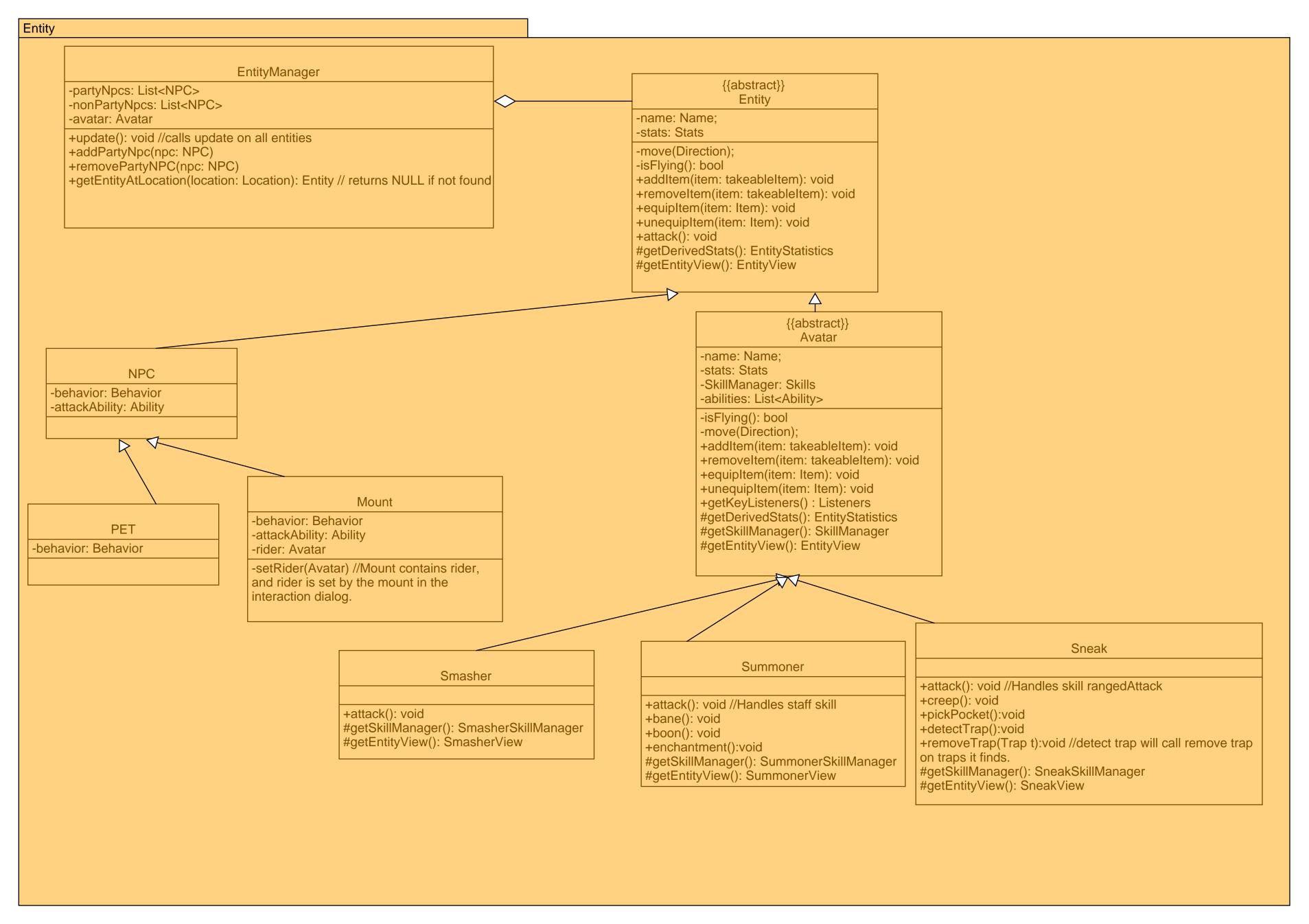
DialogController

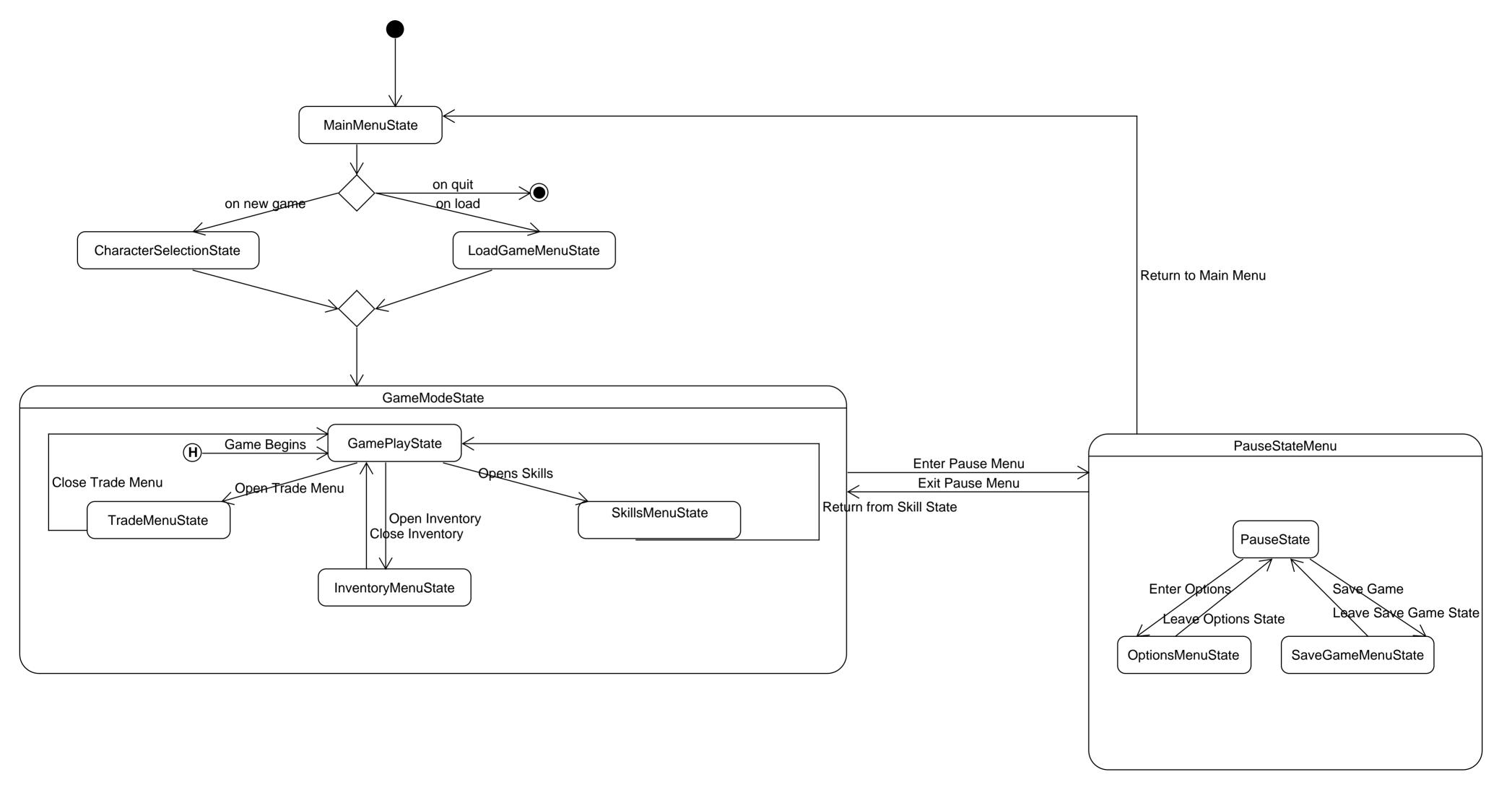
-tradeLayout

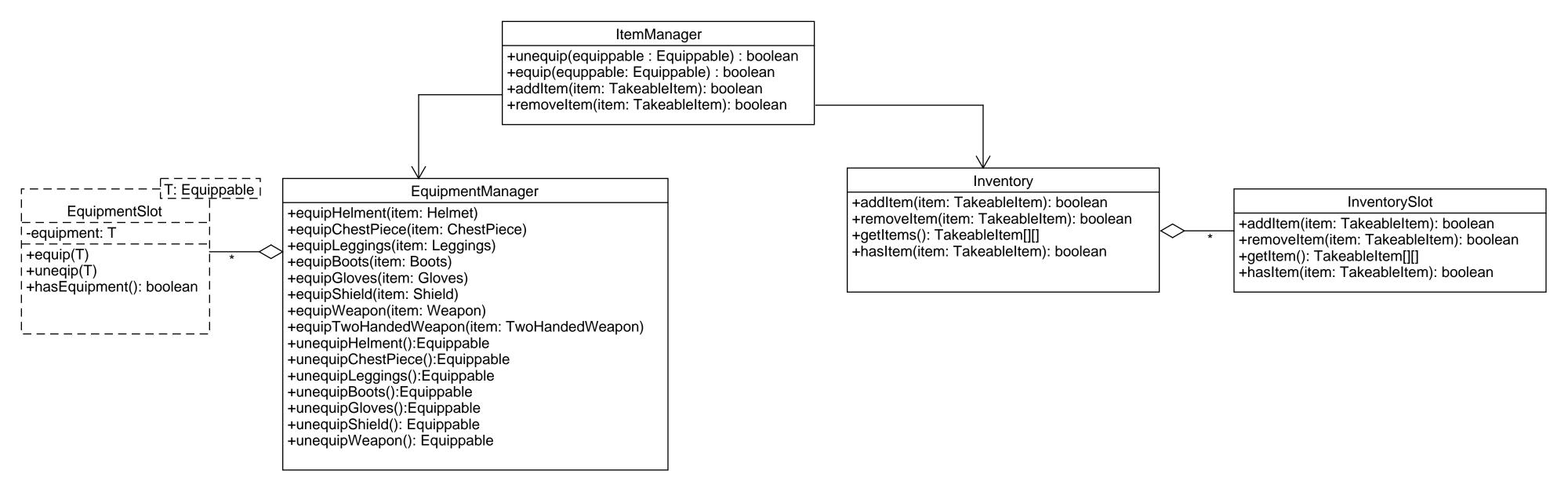
+getText(): String



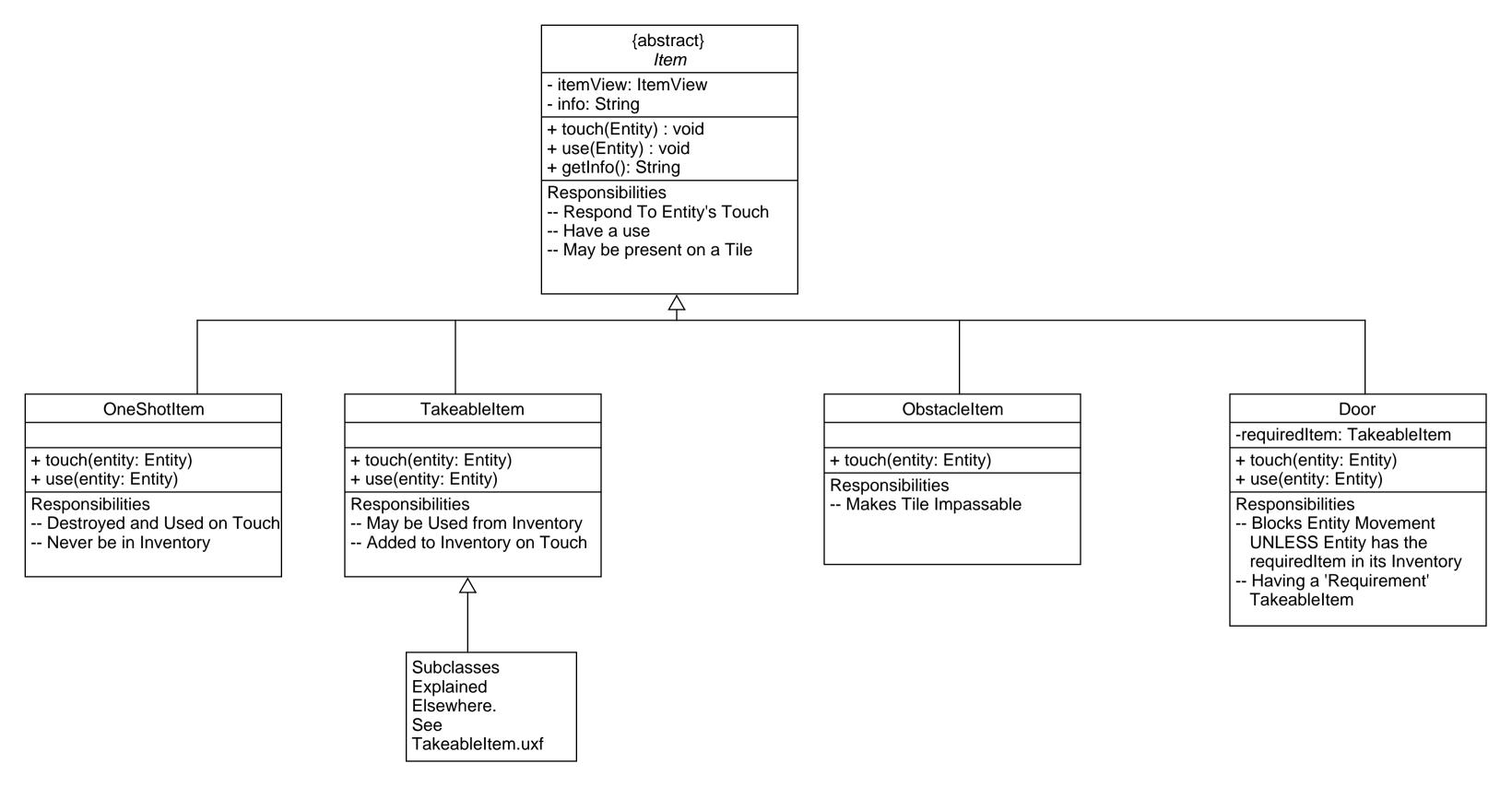
moves an item to the entity on pick up

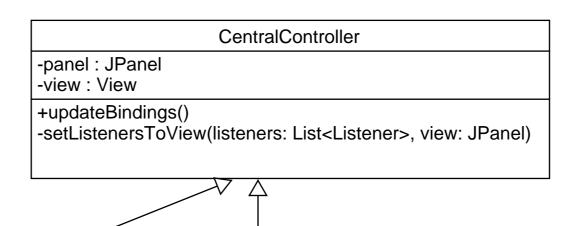






#### {abstract} Item · itemView: ItemView - info: String + isBlocking(): Boolean Responsibilities -- Potentially Impede Movement of an Entity -- Default Behavior is to be Nonblocking in regards to movement OneShotItem TakeableItem ObstacleItem Door -requiredItem: TakeableItem + isBlocking(): Boolean + isBlocking(): Boolean + isBlocking(): Boolean + isBlocking(): Boolean Responsibilities Responsibilities Responsibilities Responsibilities -- Never Blocks Entity -- Never Blocks Entity -- Always Blocks Entity -- Blocks Entity Movement Movement UNLESS Entity has the Movement Movement -- Destroyed and Used on Touch -- Added to Inventory on Touch requiredItem in its Inventory -- Having a 'Requirement' TakeableItem





### +getUpKey(): KeyStroke +getDownKey(): KeyStroke ... +getAbility1Key(): KeyStroke +getAbility2Key(): KeyStroke +getAbility2Key(): KeyStroke ... +save(): StructureMap +load(map: StructedMap)

## CentralGamePlayController

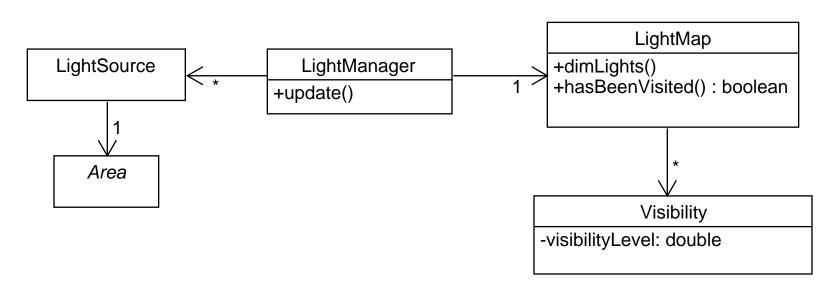
- -panel : JPanel
- -view : View
- +updateBindings()
- -setListenersToView(listeners: List<Listener>, view: JPanel)
- -fetchListeners(): List<Listener>
- -setListenersToView(listeners: List<Listener>, view: JPanel)

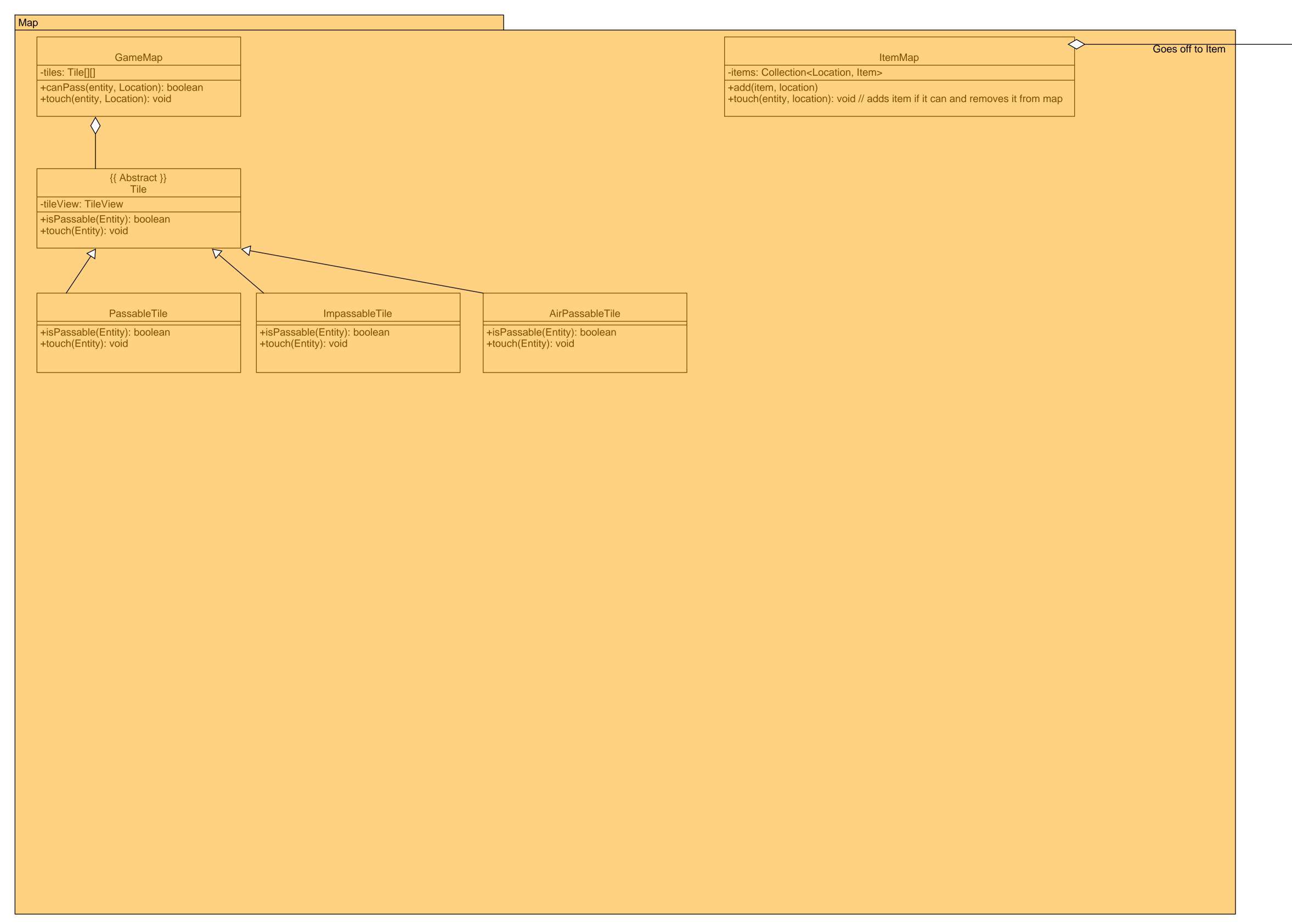
#### CentralViewController

- -panel : JPanel
- -view : View
- +updateBindings()
- -setListenersToView(listeners: List<Listener>, view: JPanel)

#### Listener

- -ability : Ability
- -keyStroke: KeyStroke
- +updateBindings() addAsBinding(JPanel)



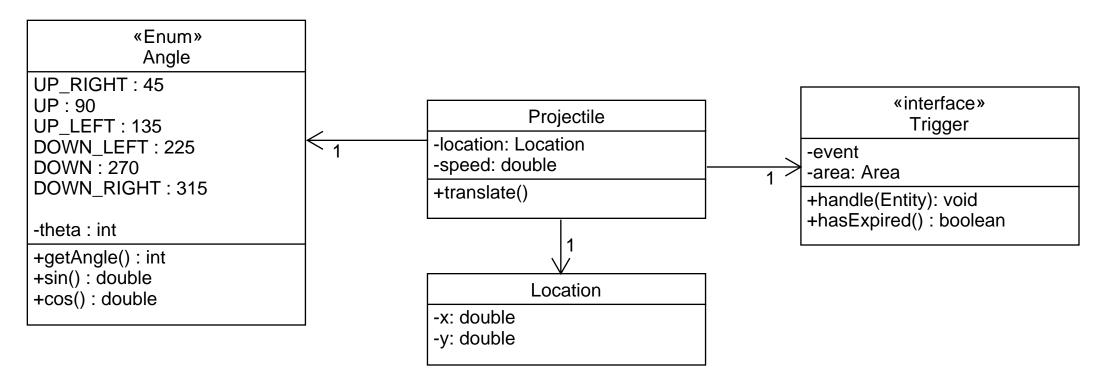


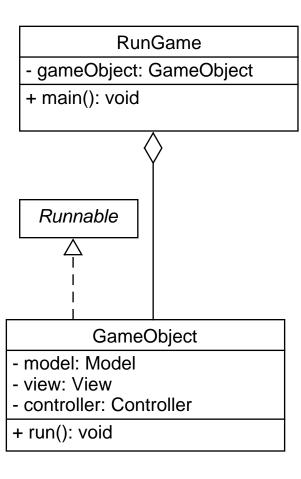
# «interface» StateMachine<GameState>

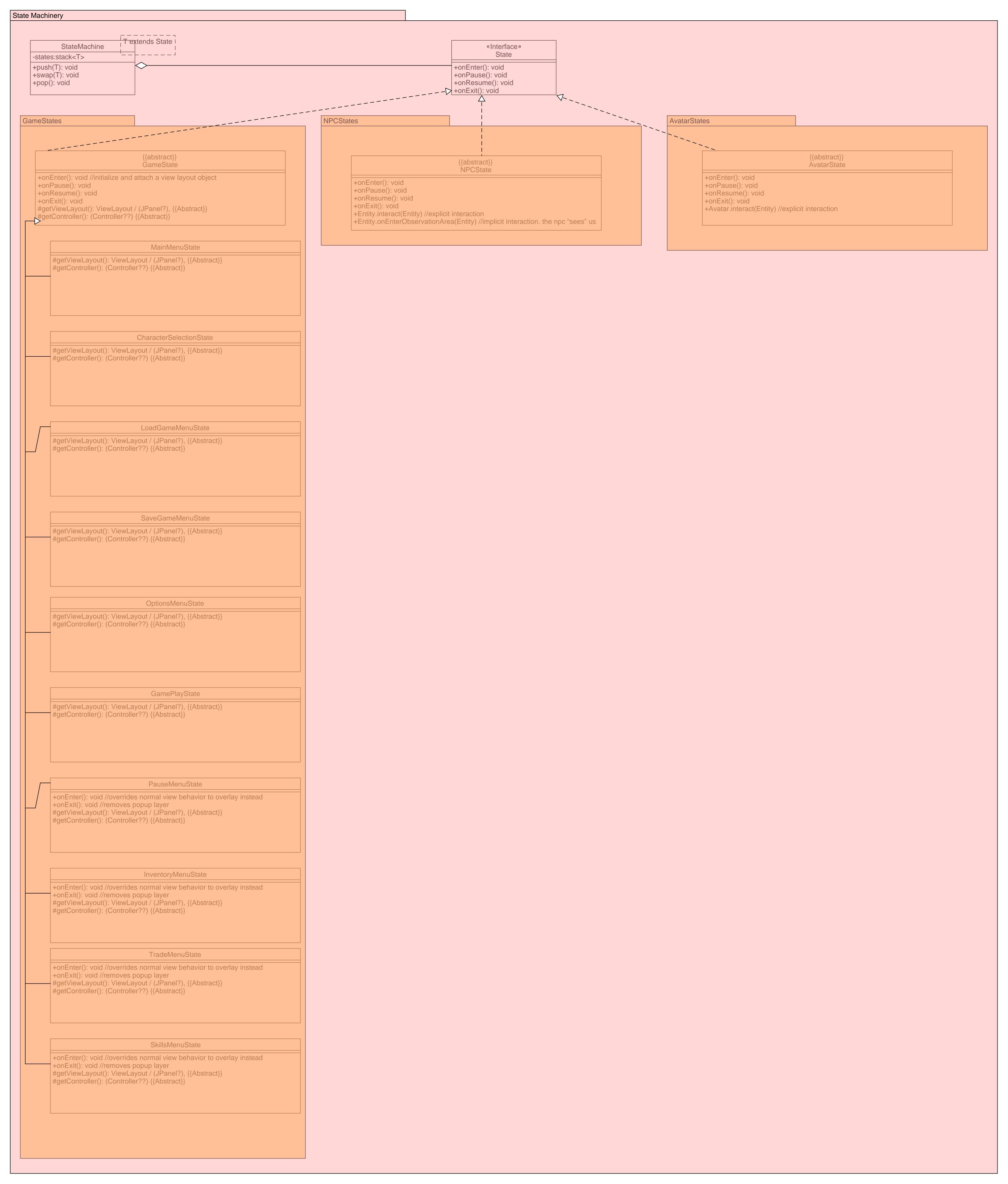


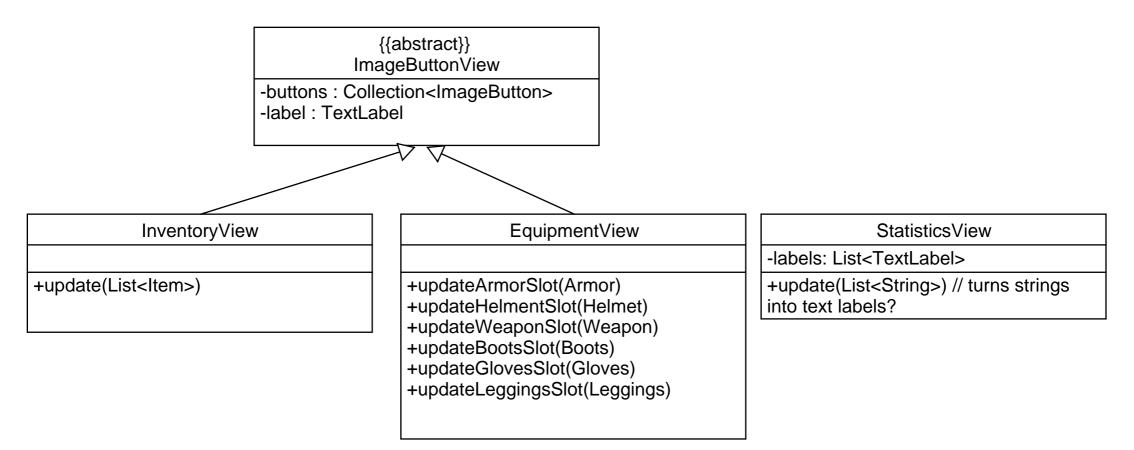
#### Model

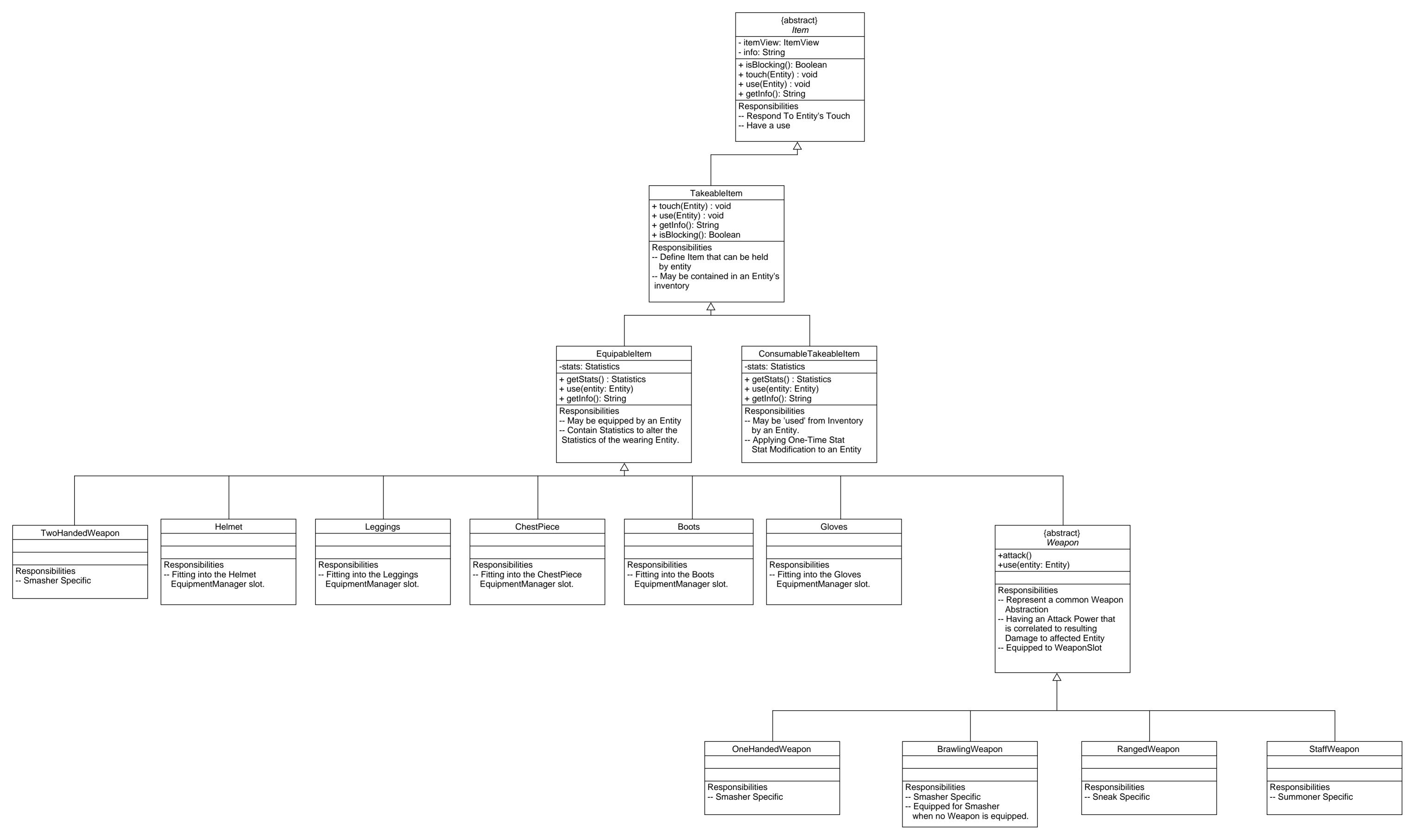
- keyPreferences: KeyPreferences
- eventManager: EventManager
- entityManager: EntityManager
- gameMap: GameMap
- itemMap: ItemMap
- projectileManager: ProjectileManager
- triggerManager: TriggerManager
- + moveUp(): void
- + moveUpLeft(): void
- + moveDownLeft(): void
- + moveDown(): void
- + moveDownRight(): void
- + moveUpRight(): void
- + save(): StructuredMap
- + load(StructuredMap): StructuredMap
- + push(GameState): void
- + pop(): void
- + swap(GameState): void
- + update(): void

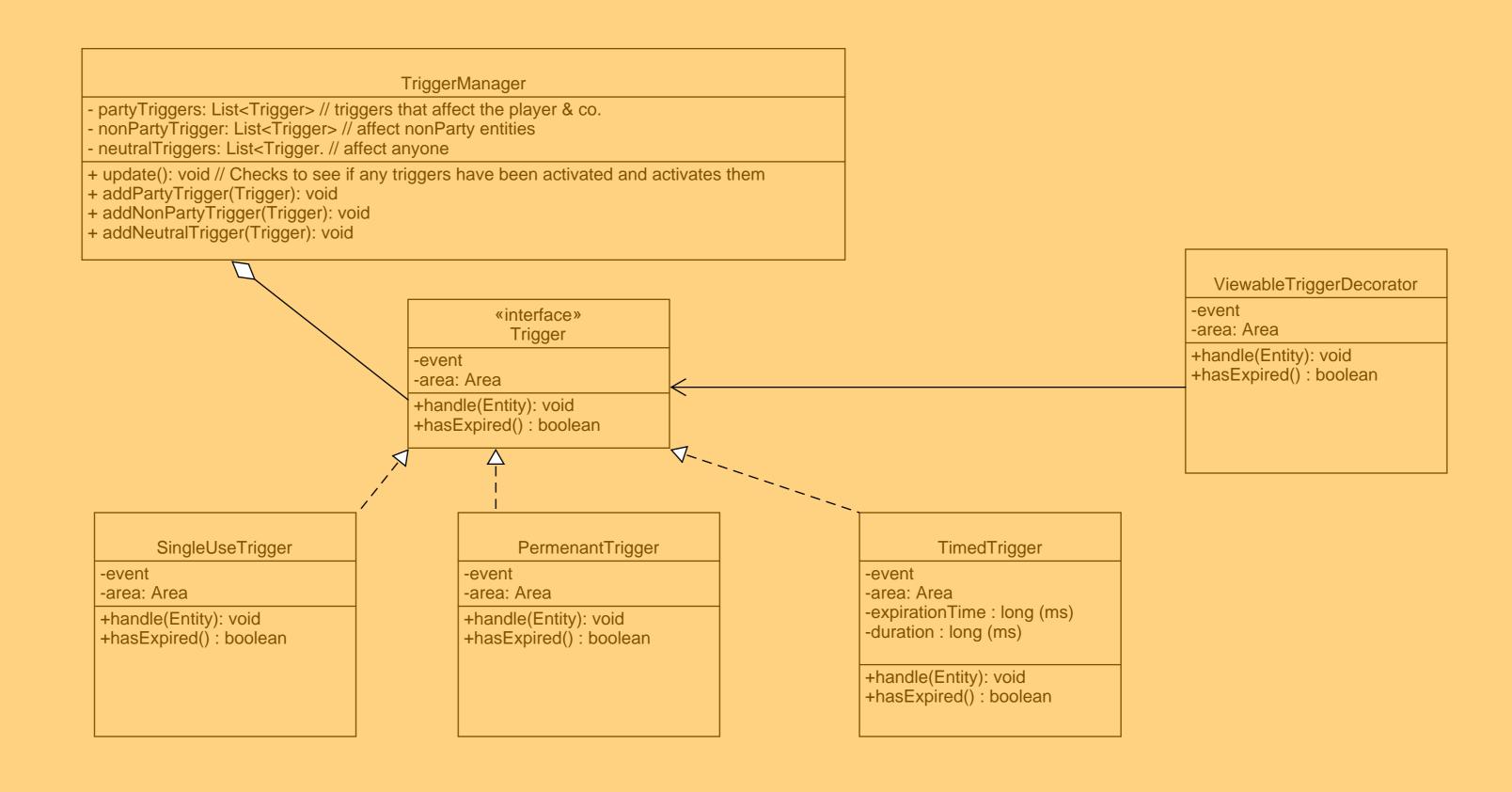


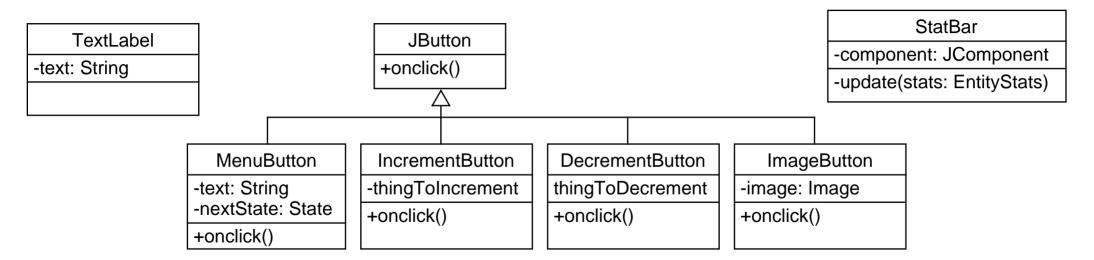












## View Layouts

MainMenuLayout -TextLabel -MenuButton	CharacterSelectionLayout -TextLabel -MenuButton	LoadMenuLayout -TextLabel -MenuButton	-TextLabel -MenuButton -MenuButton -StatsView	SkillsMenuLayout -MenuButton -SkillBarView	SaveMenuLayout -TextLabel -MenuButton	GameplayLayout -GameMapView -LightMapView	render() setStrings(Strings)
render()	-CharacterButton render()	-SaveSlotButton render()	-InventoryView -EquipmentView render()	-PlusButton -TextLabel render()	-SaveSlotButton render()	-EntityView -HUDView -DialogueView render()	

