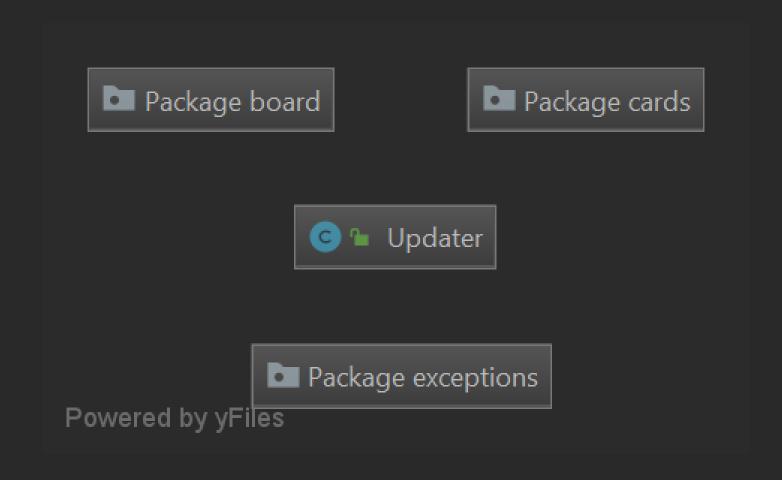
Software Engineering project 2019

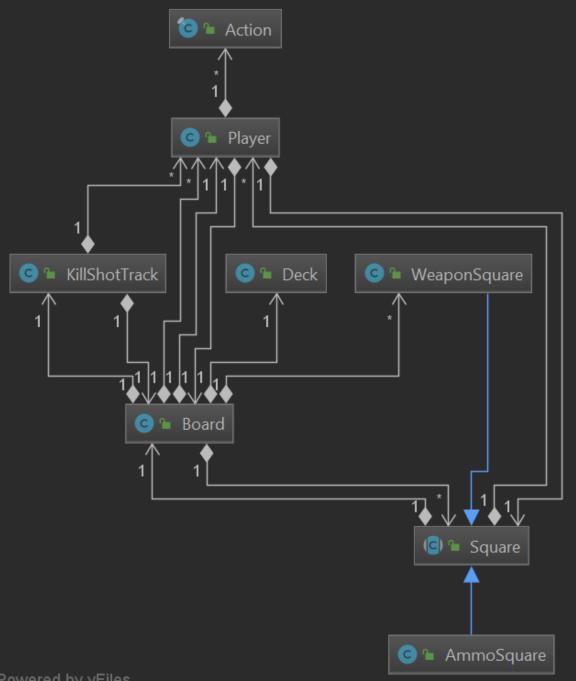
Implementation of Adrenaline by Filip Neduk.

model



model.board

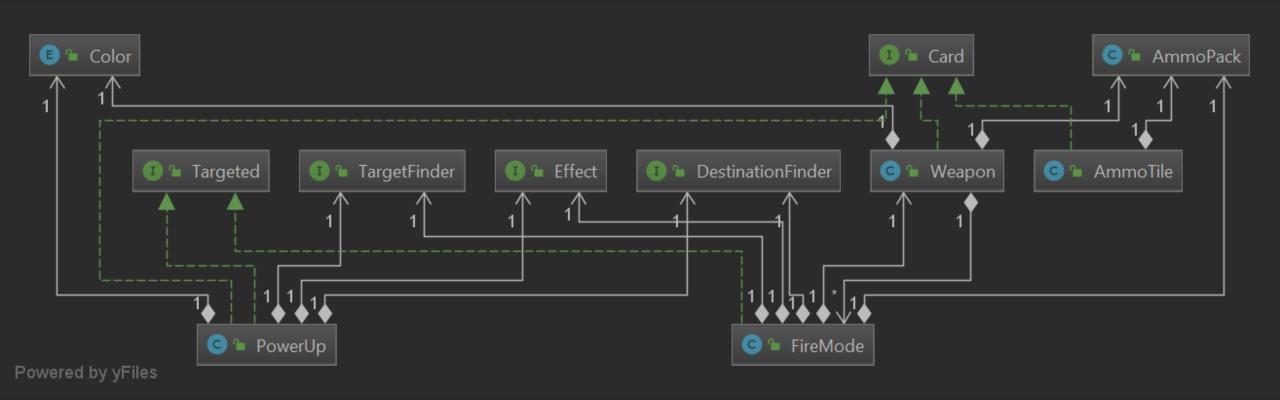
- Contains a class representing the Board and other classes representing the elements of the Board.
- A Board is made of Squares, that can be AmmoSquares or WeaponSquares.
- A Board contains a KillShotTrack, some Decks and the Players of the game.
- Every Player can do some Actions.



model.cards

- Weapon, PowerUp and AmmoTile implement the interface Card.
- An AmmoTile contains an Ammopack. Weapons, PowerUps and FireModes have a cost in AmmoPack.
- FireMode and PowerUp implement the interface Targeted.
- TargetFinder, Effect and DestinationFinder are functional interfaces used by FireMode, PowerUp.
- Cards, as well as other components of the game, can have a Color.
 Namely, Weapons and PowerUp must have a Color while AmmoTile must not.

model.cards

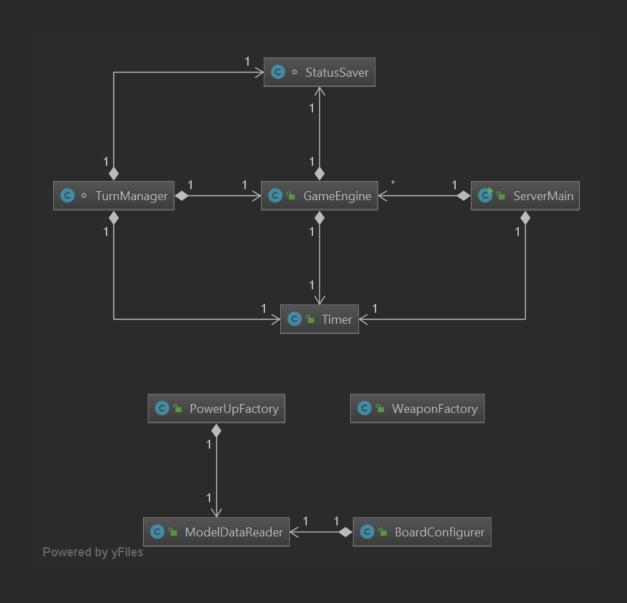


model.Updater

- The class responsible for updating the ClientModel by copying the necessary values from the ServerModel.
- The ClientModel class will be presented later.

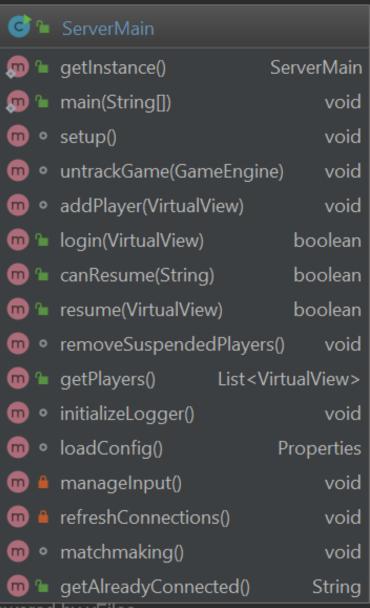
G 1	Updater	
,	get(String, Weapon, boolean)	JsonObject
,	get(String, int)	JsonObject
,	get(String, int, Player, boolean)	JsonObject
,	get(String, Player, PowerUp)	JsonObject
,	get(String, Player, Weapon)	JsonObject
,	get(String, Player, AmmoPack)	JsonObject
,	get(String, Player, Square)	JsonObject
,	get(String, Player)	JsonObject
,	get(String, Player, int)	JsonObject
,	get(String, Player, List <player>)</player>	JsonObject
,	get(String, Square, Weapon)	JsonObject
,	get(String, Player, boolean)	JsonObject
,	get(String, Square)	JsonObject
,	getModel(Board, Player)	JsonObject
,	createSimplePlayer(Player, Board)	SimplePlayer
,	getFreshUpdate(String)	JsonObject
,	getRenderMessage()	JsonObject
,	to Simple Weapon (Weapon)	SimpleWeapon
,	toSimpleSquare(WeaponSquare)	SimpleSquare
,	toSimpleSquare(AmmoSquare)	SimpleSquare
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controller



controller.ServerMain

- The class containing the main() method of the Server.
- Manages connections and matchmaking.

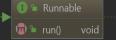


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controller.GameEngine

- The class responsible for running a game.
- Is instantiated and run by ServerMain.







controller.TurnManager

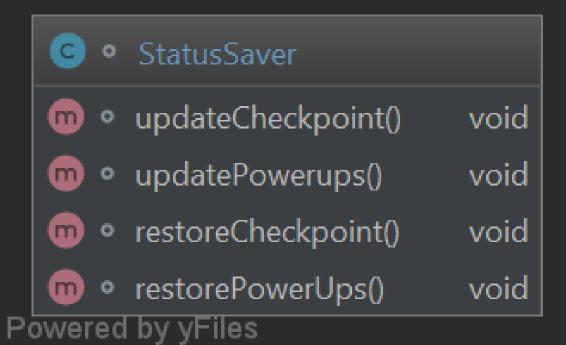
- The class responsible for running a turn.
- Handles the exchange of messages with the user.

	TurnManager	
0	runTurn()	void
0	joinBoard(Player, int, boolean)	void
0	executeAction()	boolean
0	executeActualAction(Action)	void
0	handleUsingPowerUp()	boolean
0	usePowerUp()	void
•	handleMoving(Action)	void
0	handleCollecting()	void
0	handleShooting()	void
0	applyFireMode(FireMode)	void
0	reload(int)	boolean
•	reloadMandatory()	void
0	handleTargetingScope(Player, List <player></player>) boolean
•	askTargetsForGrenade()	void
0	handleTagbackGrenade(Player)	boolean
0	handleDeaths()	void
0	replaceWeapons()	void
0	replaceAmmoTiles()	void
0	getDamagesList()	List <integer></integer>
0	updateDead()	void
0	askConfirmation(String)	boolean
0	askConfirmation(String, Player)	boolean
0	resetJoinBoard(Player, boolean)	void
0	resetPowerUp()	void
0	resetAction()	void
50	toStringList(List)	List <string></string>
,	toUserStringList(List <list<player>>)</list<player>	List <string></string>
0	updateAndSendModel()	void
0	updateAndNotifyAll()	void
0	restoreAndNotify()	void
0	getVirtualView(Player)	VirtualView
0	getDead()	List <integer></integer>
0	handlePayment(AmmoPack)	void
0	mandatoryConversion(Color)	void
(m)	setDead(List <integer>)</integer>	void
	UV VI UES	

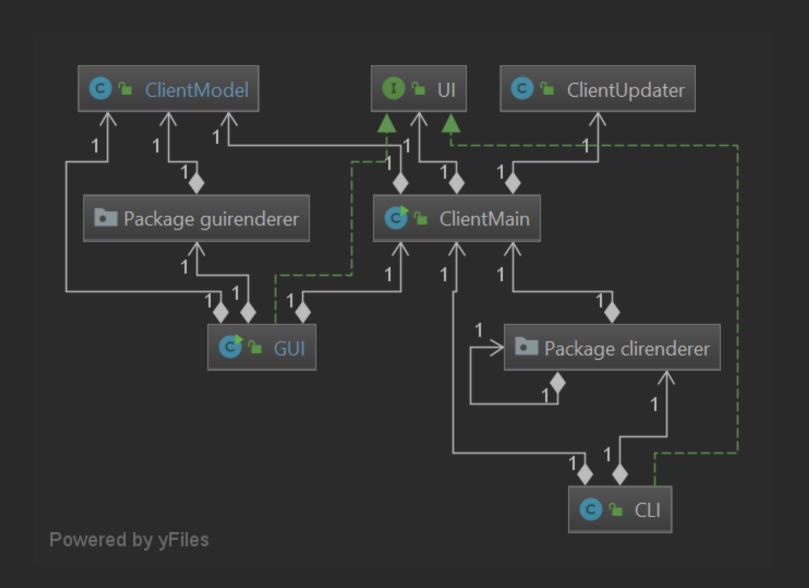
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controller.StatusSaver

 Supports the TurnManager allowing it to save checkpoints in order to make possible for the player to reset his actions.

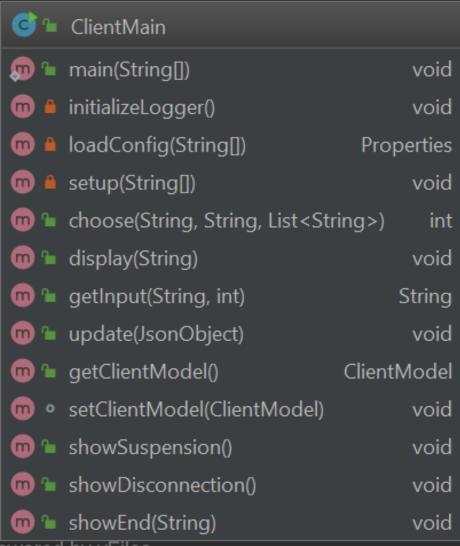


view



view.ClientMain

 The class containing the main() method of the Server.



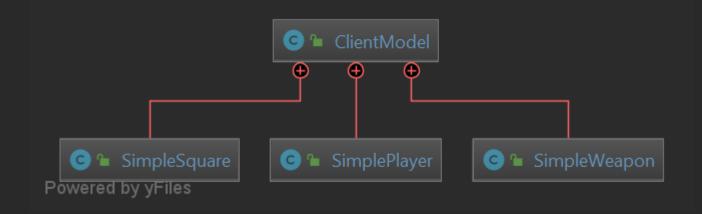
Powered by yFiles

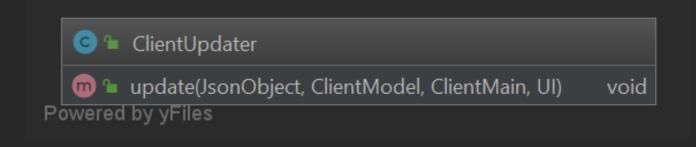
view.ClientModel & view.ClientUpdater

Contains a simplified version of the model.

Contains three inner classes

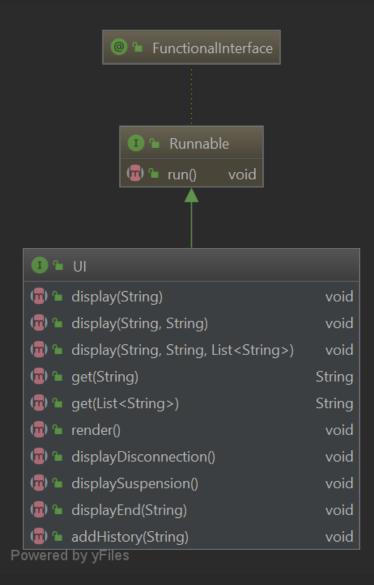
Updates the ClientModel, depending on the type of JsonObject it receives.



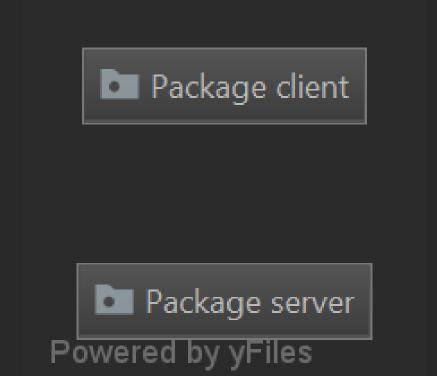


view.UI

- Interface for user interface and for managing client's input/output.
- Is implemented by CLI, GUI.

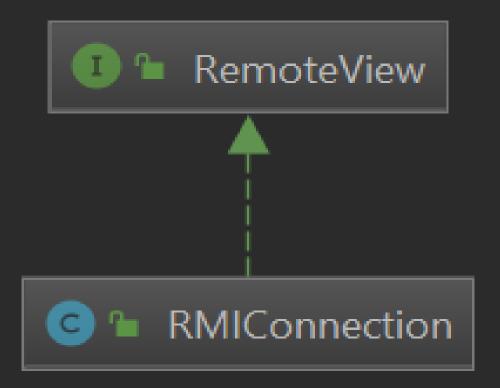


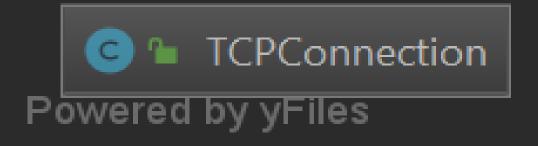
network



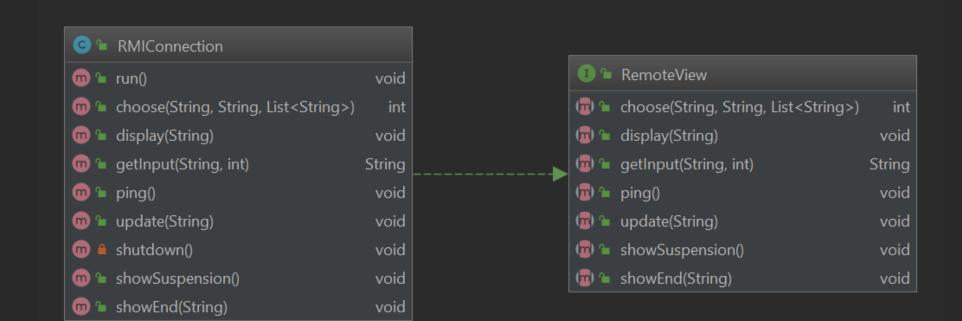
network.client

- Two classes for two different types of connection: RMI and TCP.
- RMIConnection implements the interface RemoteView.





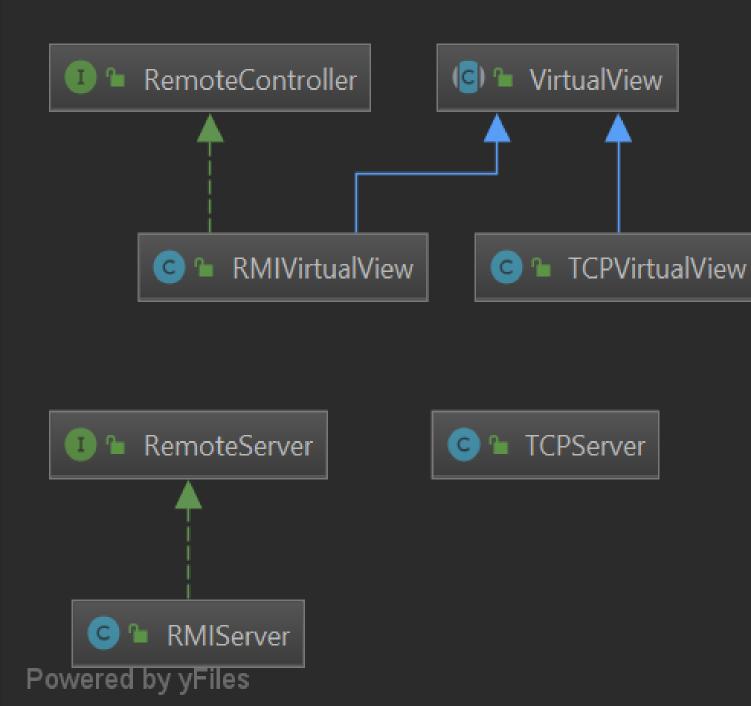
network.client



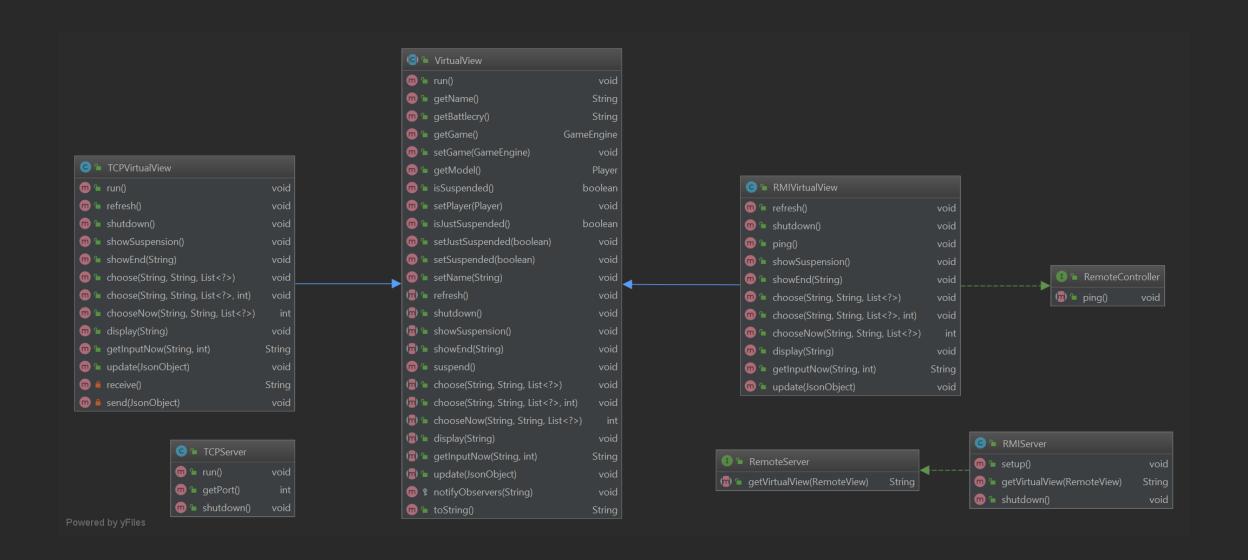
G 🚡	TCPConnection	
@ •	run()	void
@ 4	handleRequest(JsonObject)	void
@ 4	send(String)	void
•	receive()	String
	shutdown()	void
owered	by yFiles	

network.server

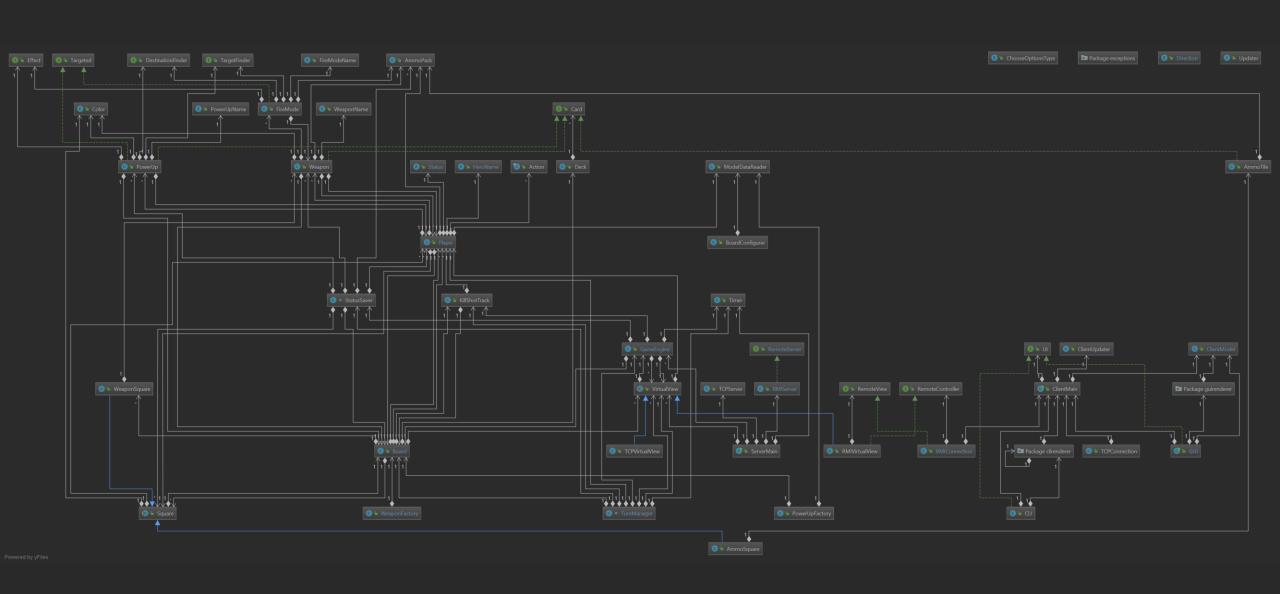
- A VirtualView allows the Server to communicate with the Client.
- Depending on the user choice, for every connection the Server can implement a TCPVirtualView or an RMIVirtualView, taking advantage of a TCPServer class or of an RMIServer class.



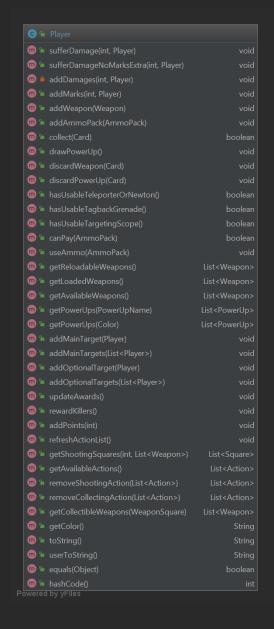
network.server

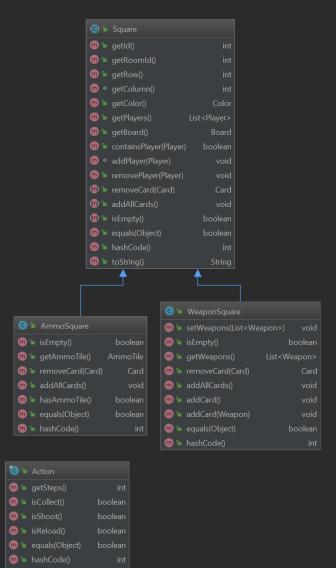


COMPREHENSIVE DIAGRAM

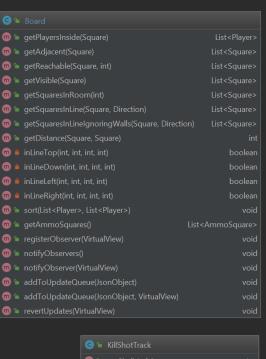


Methods summary: model.board

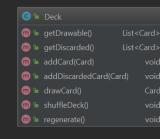




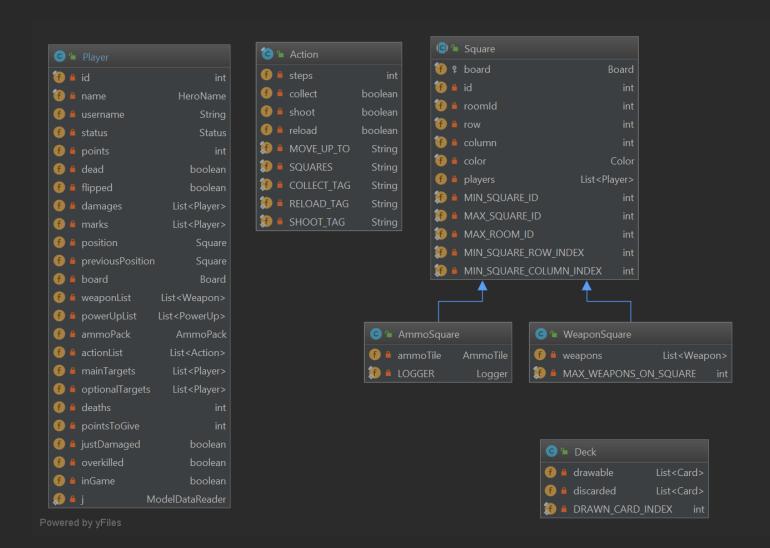
m toString()

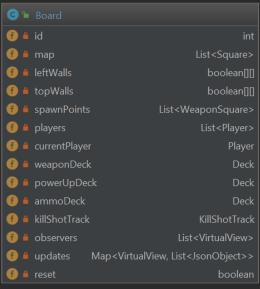


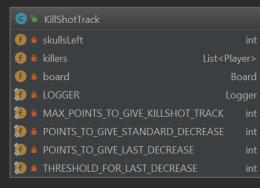




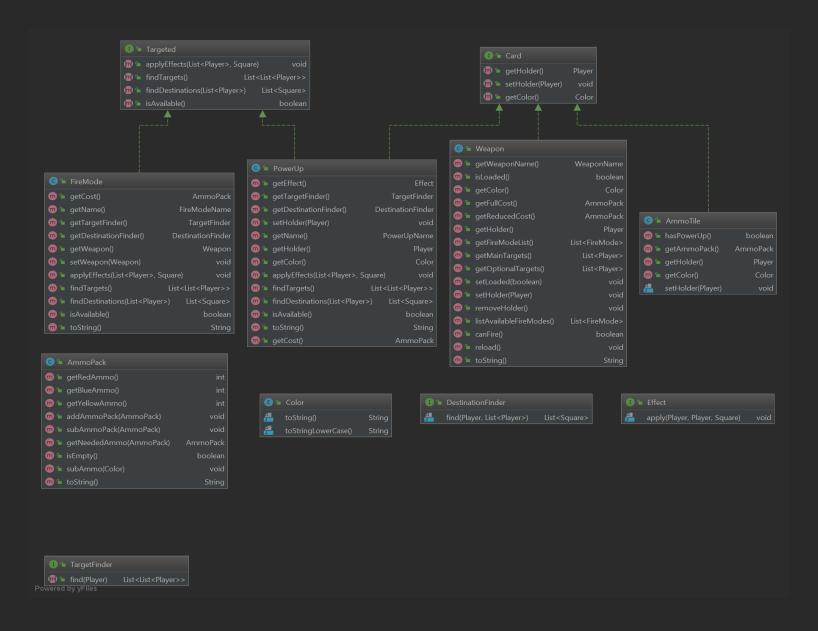
Attributes summary: model.board



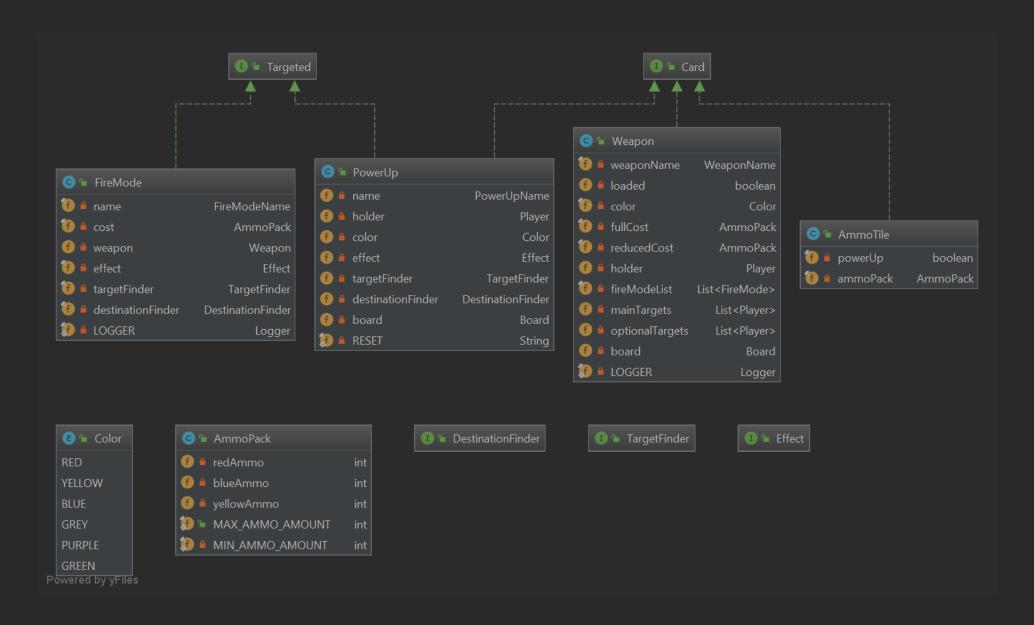




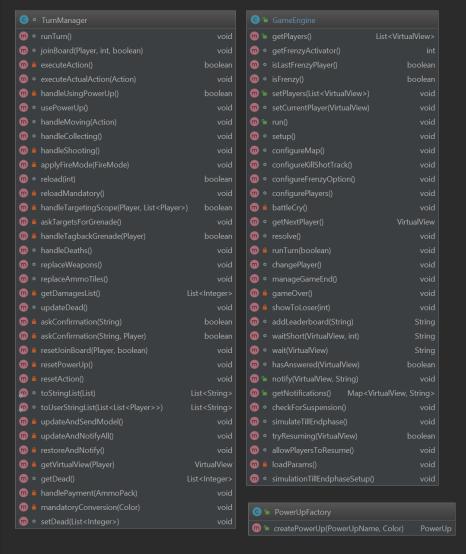
Methods summary: model.cards



Attributes summary: model.cards



Methods summary: controller



	1		
(III	1		ServerMain
€	1	main(String[])	
•	•		
•	•	untrackGame(GameEngin	
•	•	addPlayer(VirtualView)	
•	1	login(VirtualView)	
•	<u>-</u>	canResume(String)	
•	<u>-</u>	resume(VirtualView)	
•	•	removeSuspendedPlayer	
•	<u>-</u>	getPlayers() List <v< th=""><th>irtualView></th></v<>	irtualView>
•	•	initializeLogger()	
•		loadConfig()	
•	•		
•	•	refreshConnections()	
•	•		
•	<u> </u>	getAlreadyConnected()	String
	6	• updateCheckpoint()	
	6	• updatePowerups()	

restoreCheckpoint() void

m • restorePowerUps()

m = createWeapon(WeaponName)

m a getWeaponTree(WeaponName)

m = getReducedCost(AmmoPack, Color)

© № WeaponFactory

m = getColor(JsonObject)

m a getFullCost(JsonObject)

getFireModeName(String)

m = getFireModeCost(JsonObject)

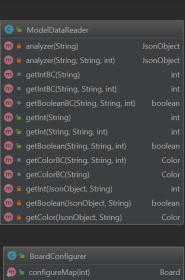
m a getTargetFinder(JsonObject)

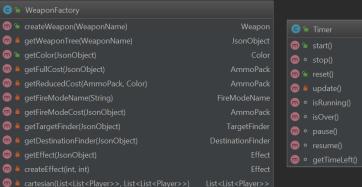
m a getEffect(JsonObject)

createEffect(int, int)

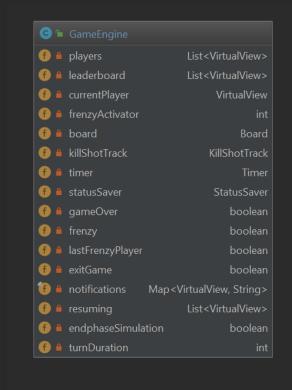
m = getDestinationFinder(JsonObject)

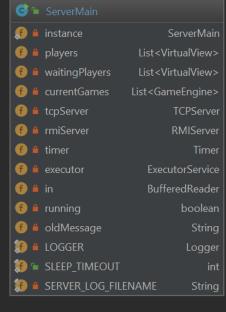
6	getColo	r(JsonObje	ct, St
	BoardC		
(m) 1		reMap(int)	
500 %		rePlayerOp	
@ 1		reDecks(Bo	
50 4	setAmr	noTilesAnd	lWea
(10)		ıreKillShotT	rack(
50 1	simulat	eScenario(
	Weapon		
Jsc	nObject		
		m •	
	Color		

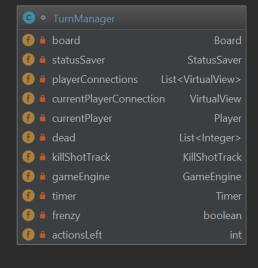


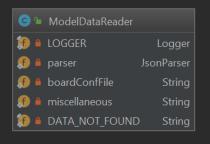


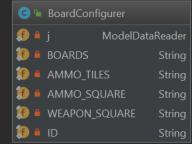
Attributes summary: controller

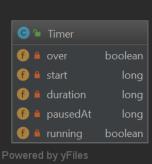


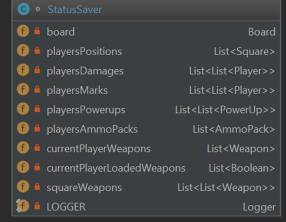


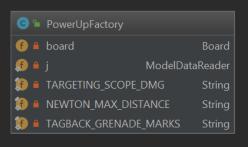


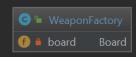




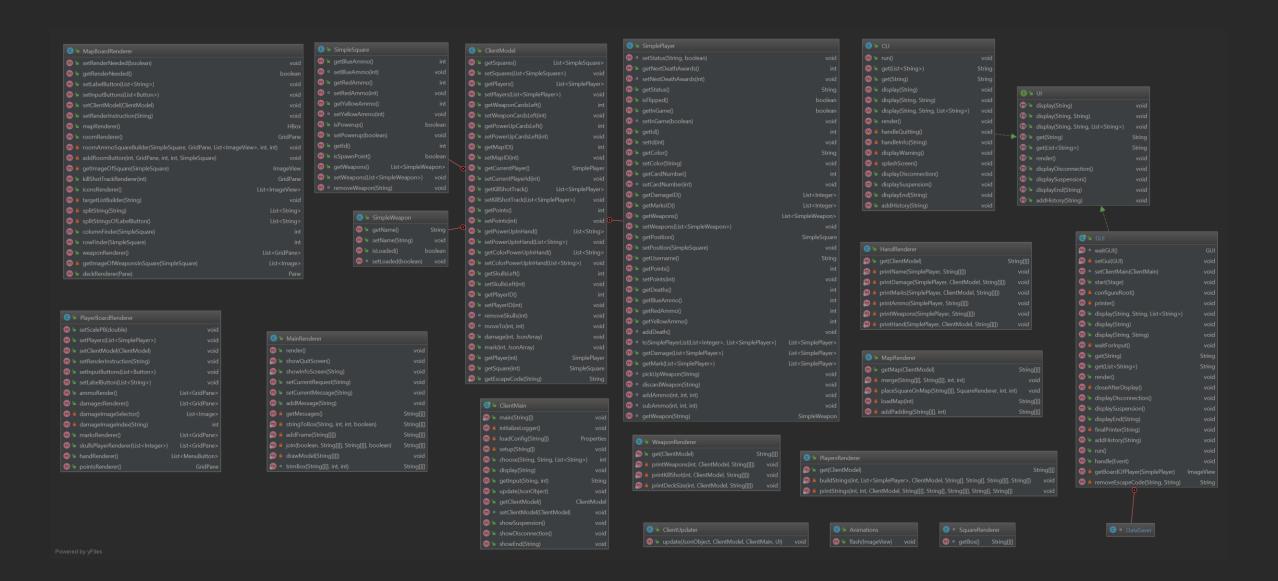




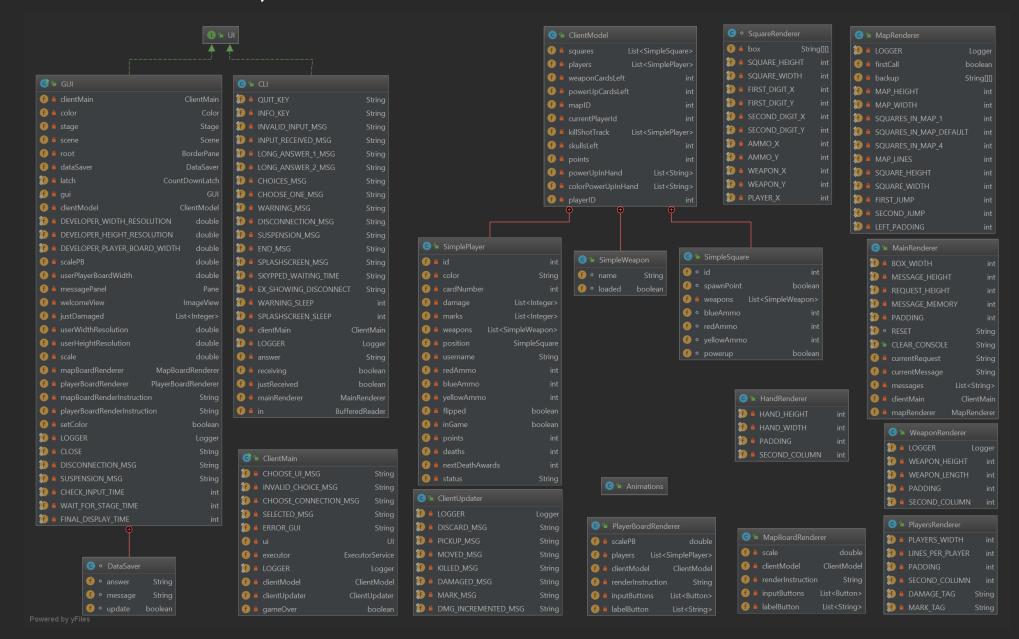




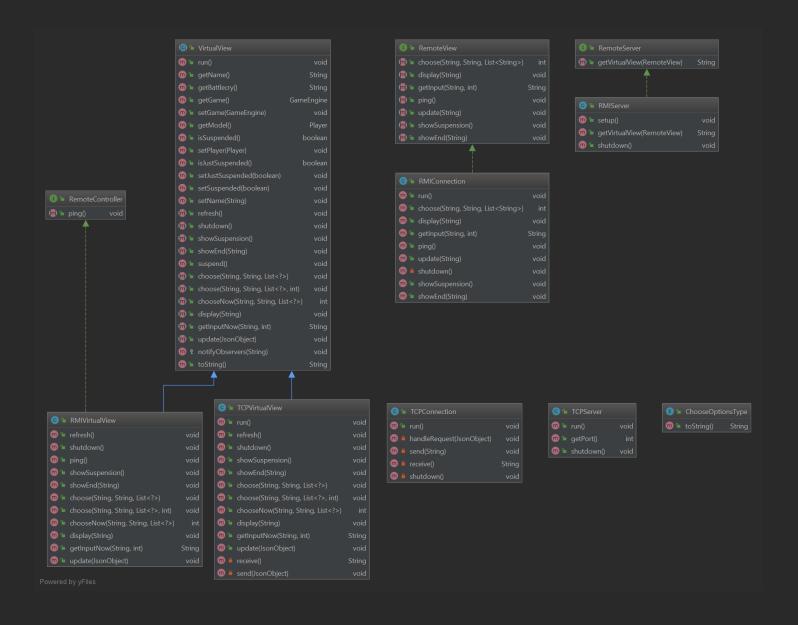
Methods summary: view



Attributes summary: view



Methods summary: network



Attributes summary: network

