Settle And Destroy (SAD)
Group 13
Jonas Wikberg
Christofer Hjalmarsson
Daniel Westerberg
Saul Amram
André Sikborn Erixon

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5. Design Details	
5.1. Class Responsibility Collaborator	(CRC) Cards
Class Team	
Responsabilities:	Collaborators:
Keeps track of team information such as	Race
team name, team race etc.	
Keeps track of team resources	
Class Village	
Responsabilities:	Collaborators:
Keeps track of the village owner	Army
Keeps track of the village current army	Team
Host buildings	
Class Army	
Responsabilities:	Collaborators:
Know the home village of the army	Village
Keeping troops together as one unit	Troop
Knowing the army troop amounts	TroopType
To merge different armies from the same	
team	
Class Combat	
Responsabilities:	Collaborators:
Calculates which army wins a battle	Army
Calculated Which army While a battle	, and
Class Troop	
Responsabilities:	Collaborators:
Keeping track of troop characteristics such	TroopInfo
as amount, attack points and defence	
as amount, attack points and acronics	
points	
· · · · · · · · · · · · · · · · · · ·	TroopType
points	ТгоорТуре
points Class Map	
Class Map Responsabilities:	TroopType Collaborators:
Class Map Responsabilities: Keeps track of and displays the game	
Class Map Responsabilities: Keeps track of and displays the game terrain, villages and armies	
Class Map Responsabilities: Keeps track of and displays the game	
Class Map Responsabilities: Keeps track of and displays the game terrain, villages and armies	

Responsabilities:	Collaborators:
Keeps track of building name, level, costs of upgrading	Village
Keeps track of its own building panel where the buildings actions are display such as different building options	BuildableItem
Decides which buildable items that are available	
Interface BuildableItem	
Responsabilities:	Collaborators:

Interface BuildableItem	
Responsabilities:	Collaborators:
Describes an item that can be built in a arbitrary building	
Checks required building level to build building	
Building cost, name and building time	

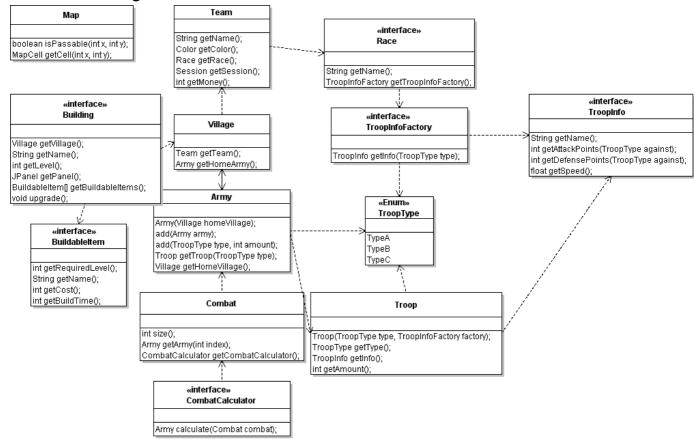
Interface TroopInfoFactory	
Responsabilities:	Collaborators:
Defines different attributes for different	TroopInfo
types of troops	

Interface TroopInfo	
Responsabilities:	Collaborators:
Keeps track of attributes for a specific kind	
of troop	

Interface CombatCalculator	
Responsabilities:	Collaborators:
Calculates the outcome of a combat	Combat

Interface Race	
Responsabilities:	Collaborators:
Creates and stores a Troopinfofactory that	TroopInfoFactory
be used by the team	
Race name	

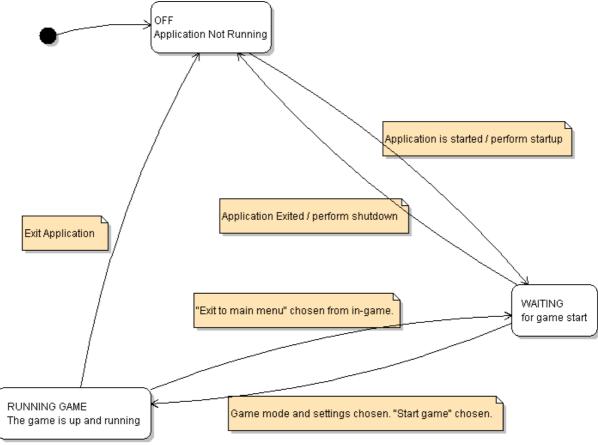
5.2. Class Diagram



Figur 1. Class Diagram

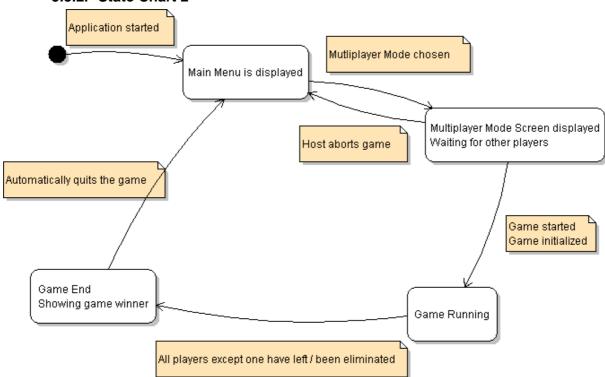
5.3. State Charts

5.3.1. State Chart 1



Figur 2. State Chart 1 - Overview

5.3.2. State Chart 2

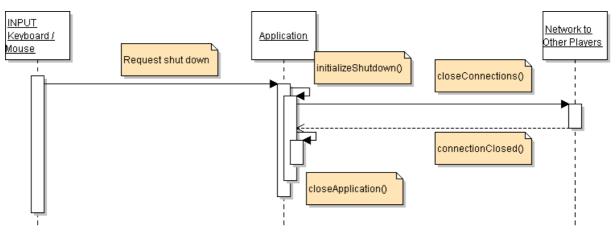


Figur 3. State Chart 2 – Staring, running and ending a game

5.4. Interaction Diagrams <u>INPUT</u> Network to Keyboard / <u>Application</u> Other Players <u>Mouse</u> performStartup() application started openMultiplayerGame() openConnections() mutliplayer mode chosen playerConnected() startGame() start game sendCommands() game input

Figur 4. Application start and game running

receiveCommands()



Figur 5. Game shutdown