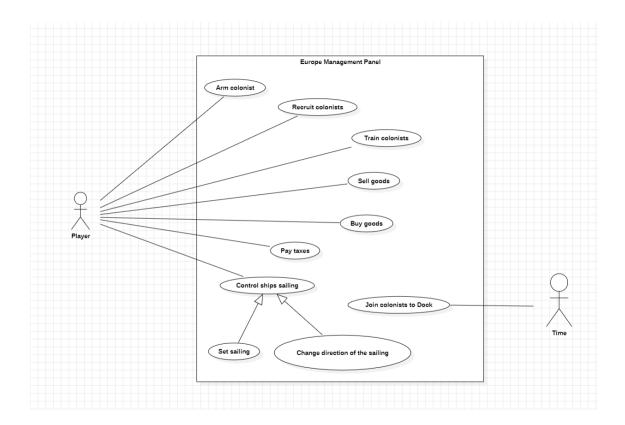
Software Engineering Project

Use Case Diagram

Since *Freecol* game is a very complex system, we decided to divide it in small sub-diagrams. In this report I will be focusing on the interaction between a player and the Europe Panel that he can access when he has a ship on a European port. In that panel, he can do some actions that are represented in the next diagram in the form of use cases. Then I'll proceed to give a small explanation for each Use Case and Actor represented on it.



1. Actors

For this Use Case diagram, I identified two different types of actors that interact with the system:

Player: represents a human or an AI that plays the game.

Time: represents a random period of time that make new colonists appear on the European panel.

2. Use Cases

Use case: Arm colonist

ID: 1

Description: The player can arm the colonist with tools but must pay for it.

Main actor: Player Secondary actors: None

Use case: Recruit colonists

ID: 2

Description: The player can recruit a colonist from the New World to then embark on his

ship.

Main actor: Player Secondary actors: None

Use case: Train colonists

ID: 3

Description: The player can train a colonist to become an expert unit to then embark on his

ship.

Main actor: Player Secondary actors: None

Use case: Sell goods

ID: 4

Description: The player can sell the goods that are on his boat to the market and make

money from it. Main actor: Player

Secondary actors: None

Use case: Buy goods

ID: 5

Description: The player can buy goods from the market with gold and load his ship with

them.

Main actor: Player Secondary actors: None

Use case: Pay taxes

ID: 6

Description: The player can pay taxes from boycotted goods allowing him to then sell his

previous boycotted goods on the market.

Main actor: Player Secondary actors: None

Use case: Control ships sailing

ID: 7

Description: The player tries to change ship sailing state on the system.

Main actor: Player Secondary actors: None

Use case: Set sailling

ID: 8

Description: The player can remove his boat from the European port to the ocean for sailing.

Main actor: Player Secondary actors: None

Use case: Change Direction of the Sailing

ID: 9

Description: The player can choose the destination of the boat on ocean between Europe or

America.

Main actor: Player Secondary actors: None

Use case: Join colonists to Dock

ID: 10

Description: The time makes colonists appear on the Dock panel.

Main actor: Time
Secondary actors: None