Iteration 2 Correction Grid

**Integrated Networking**

Support for multiple machines demoed: **Yes**

2 players supported: **Yes**

Maximum # of players (including AIs if any): **5**

Minimum # of human players: **2**

**Integrated GUI**

All players displayed on each client: **Yes**

Cards displayed correctly for all players: **Yes**

Shield and Stunned displayed separately: **Yes**

All displays correctly updated: **Yes**

Ivanhoe handled correctly in GUI (regardless of whether or not it works correctly): **Yes**

**Game Logic (to be tested without networking)**

*Each Tournament Testing*:

1. one player draws/starts, others draw but do not participate (ie withdraw)

***Test:*** class *TestGameEngine*: testPlayerStarts

1. one player draws/starts, others draw but only one participates by playing a card or several cards

***Test*:** class *TestGameEngine*: testPlayersParticipate

1. one player draws/starts, others draw and some participate by playing a card or several cards

***Test:*** class *TestGameStart2Player*

1. one player draws/starts, other draw and all participate

***Test:*** class *TestGameStart2Player*

1. starting with a supporter or several supporters

***Test:*** class *TestGameEngine*: testStartingWithSupporters

1. a multiplayer tournament has several rounds where each player plays one and then several supports in different rounds

***Test*:** class *TestGameEngine*: testMultiplayerTournamentWithSupporters

1. trying to play cards that do not get the current player to beat the tournament originator (ie not enough to be the leader)

***Test*:** class *TestGameEngine*: testTotalValueCards

1. restriction to 1 maiden per player per tournament

***Test:*** class *TestGameEngine*: testMaiden

1. winning and getting a token

***Test:*** class *TestGameEngine*: testWinnerToken

1. winning and choose token when purple tournament

***Test:*** class *TestGameEngine*: testWonPurpleTournament

1. losing with a maiden and losing a token

***Test:*** class *TestGameEngine*: testLoseOnMaiden

Do you enforce NOT choosing a token already received winning a purple tournament: **Yes**

Do you enforce that regardless of any card, a display cannot lose its last card: **Yes, class *testScenarios***

Ivanhoe card supported: **Yes**

Do you support logs: **Yes**

Did you use logs for testing**: No**

**Action Card Testing**

1. playing this card on an unshielded player

***Test:*** class *TestActionCards*:

TestUnhorse

TestChangeWeapon

TestDropWeapon

TestBreaklance

TestRiposte

TestDodge

TestKnockDown

TestOutmaneuver

TestCharge

TestCountercharge

TestDisgrace

TestAdapt

TestAdapt

TestOutwit

TestShield

TestStunned

TestIvanhoe

1. playing this card on an shield player

***Test:*** class *TestActionCards*:

TestUnhorseShielded

TestChangeWeaponShielded

TestDropWeaponShielded

TestBreaklanceShielded

TestRiposteShielded

TestDodgeShielded

TestKnockDownShielded

TestOutmaneuverShielded

TestChargeShielded

TestCounterchargeShielded

TestDisgraceShielded

TestAdaptShielded

TestAdaptShielded

TestOutwitShielded

TestShieldShielded

TestStunnedShielded

TestIvanhoeShielded

1. undoing this card using Ivanhoe

***Test***: class *TestActionCards*:

TestActionCards:

TestIvanhoeUnhorse

TestIvanhoeChangeWeapon

TestIvanhoeDropWeapon

TestIvanhoeBreaklance

TestIvanhoeRiposte

TestIvanhoeDodge

TestIvanhoeKnockDown

TestIvanhoeOutmaneuver

TestIvanhoeCharge

TestIvanhoeCountercharge

TestIvanhoeDisgrace

TestIvanhoeAdapt

TestIvanhoeAdapt

TestIvanhoeOutwit

TestIvanhoeShield

TestIvanhoeStunned

1. checking a used action card is indeed thrown away

***Test:*** class *TestActionCards*: all tests in this class

**Scenario Testing:**

1. the player who start cannot start a tournament

***Test:*** class *TestScenarios*, testPlayerCannotStart

1. last tournament was purple, cannot be purple again

***Test:*** This is handled on client side by not offering purple as an option, and cannot be checked in the game engine. (See video at 3:18)

1. trying to play an insufficient number of cards to become the leader on my turn

***Test*:** class *TestScenarios*, testTotalValueCards

* trying to play invalid cards

***Test:*** *class TestScenarios, testInvalidCards*

* coming to end of the deck

***Test:*** *class TestScenarios,* testEndOfDeck

* using 'Charge' in a green tournament with every player with only green 1s: one card must remain

***Test:*** *class TestScenarios,* testChargeGreenOneCard

* other example of overriding rule: at least one card must remain

***Test:*** *class TestScenarios, testOneCardRemains*

* winning the game

***Test:*** class *TestScenarios*: testWinnerToken

1. the deck uses 110 cards

***Test:*** class *TestScenarios*, testNumCards

**AI Strategies**

Strategy 1: *Withdraw Strategy*

***Test***: class *TestAI*, testWithdrawStartTournament, testWithdrawPlayACard, testWthdrawWithdraws

Strategy 2: *Play All Strategy*

***Test***: class *TestAI*, testPlayAllStartTournament, testPlayAllPlaysACard, testPlayAllWithdraws

Use of strategy pattern: **Yes**

A single player can play against AIs: **Yes**

**Bells and Whistles**

Resizable Cards: **Yes**

Disabling Cards that cannot be played: **No**

Handling loss of player nicely: **Yes**

Handling duplicates names: **Yes**

Greying out player’s cards when it is not their turn: **Yes**

Displaying a logging screen when playing the game: **Yes**

Removing extra players off the screen: **Yes**

Background colour changes to the tournament colour: **Yes**

When clicked on a card, the description of the card appears: **Yes**

**Bonuses**

Did you provide a video of your game: **Yes**

<https://www.youtube.com/watch?v=xGhA-HlHu4M>

***Tests and Bells and Whistles:***

*2 Player Scenario: (0:00 - 5:00)*

- shows the waiting for players notification

- only being able to choose the tournament colour based on your hand

- background colour changes to the current tournament colour

- shows the action logging

- inactive player gets their cards greyed out

- cards description appears when you select a card

- shows testing for *Adapt* action card and how it does not apply for a shielded player

- shows testing for *Outwit*

- player picking a colour token after winning a purple tournament

- shows testing for *Riposte*

*3 Player Scenario (5:00 – 6:42)*

- testing *Outwit* and being able to choose what player to use outwit on

- shows player is prompted to use Ivanhoe when an action card is played against them

- player loses with a maiden in their display and a token

*Action Card Testing* *(6:42 – 10:37)*

- Disgrace

- click on player’s to view their display

- Adapt

- only one maiden allowed in your display

- Outwit

- Riposte

- Stunned

- Knockdown

- Shield

- Outmaneuver

*AI* *(10: 37 – 11:30)*

-demonstrates the *Withdraw* AI strategy

 Message sent to other players when one player quits the game