CS449 Sprint 1 Report

Michael Cu, Elias Julian Marko Garcia, Samual Lim

October 6, 2019

Contents

1	Mic	ro Charter	2
	1.1	A Rustic Nine Men's Morris for the Web	2
2	Use	r Stories	2
	2.1	Mills Board	3
	2.2	User Input and Selection	3
	2.3	Starting a Game	3
	2.4	Assigning Players	4
	2.5	Piece Placement	4
	2.6	Piece Movement	4
	2.7	Mill Formation	4
	2.8	Piece Elimination	4
	2.9	Flying Pieces	5
	2.10	Defining End Game	5
	2.11	Restarting and Replaying a Game	5
3	Acc	eptance Criteria	5
	3.1	Criterion 1	6
4	Imp	lementation Tasks	6
	4.1	Summary of Production Code	6
		4.1.1 Class QUX	6
	4.2	Automated Test Code	7
	4.3	Manual Test Code	7
	4.4	Other Manual Test Code	7
5	Mee	eting Minutes	8

1 Micro Charter

1.1 A Rustic Nine Men's Morris for the Web

Vision Statement

Mission Statement

Elevator Pitch

Business Value

Customer and Users

Metrics

Milestones

Risks

Authors

2 User Stories

Below you will find a table that makes up our "User Story Board", with some simplifications taken with respect to the total contents of the board. With respect to the final formal documentation, i.e. this paper, we only keep the basic qualitative and quantitative values for each story in the table while giving each user story proper its own section. This makes documenting each story less unruly while also easier to read. Each Story I.D. (SID) value is internally linked to its respective story, which also helps with navigating this section.

			Time Est.	Actual		
SID	Story Name	Priority	(hr)	(hr)	Status	Developer(s)
S1	Mills Board	high	10hr			
S2	User Input and	high	$10\mathrm{hr}$			
	Selection					
S3	Starting a Game					
S4	Assigning Players					
S5	Piece Placement					
S6	Piece Movement					
S7	Mill Formation					
S8	Piece Elimination					
S9	Flying Pieces					
S10	Defining End Game					
S11	Restarting/Replaying					
1 211	Game					

2.1 Mills Board

Description

As a user, I need an empty board consisting of 4 expanded squares with 8 equidistant positions each to play a game of Nine Men's Morris.

2.2 User Input and Selection

Description

As a user, I need to be able to select and choose input from the web GUI of the application to be able to play and take turns at Nine Men's Morris.

2.3 Starting a Game

Description

As a user, I need a GUI to prompt me with the options to start a game with either another human or against the computer for Nine Men's Morris in order to play the game.

2.4 Assigning Players

Description

As a user, I need to be assigned the role as either the first or second player, whether against another human or the computer, in order to know my player turn (either first or second) in the game.

2.5 Piece Placement

Description

As a user, I need to place nine pieces on unoccupied positions in turn with another player to start off a game of Nine Men's Morris.

2.6 Piece Movement

Description

As a user, I need to be able to move my pieces into adjacent positions that are not occupied by the other player or adjacent to their mill in order to take a turn.

2.7 Mill Formation

Description

As a user, I need the game to recognize that I have formed a mill upon moving three of my own pieces into adjacent positions so that I may gain the future ability to attack and defend my mill pieces from being eliminated.

2.8 Piece Elimination

Description

As a user, after forming a mill, I need the ability to remove an opponent's piece of my choosing so long as either it is not in a mill or any piece given all available pieces are in a mill, so that I may appropriately attack my opponent.

2.9 Flying Pieces

Description

As a user, upon reaching three remaining pieces, I need the ability to fly (jump) my pieces across the board to any un-occupied point in order to play Nine Men's Morris according to the rules. Whether the position is guarded is a variant of the game, implementation decision TBD.

2.10 Defining End Game

Description

As a user, when either myself or the opponent reaches less than three pieces, i.e. two pieces, I need the game and to declare the respective winner in order to successfully finish a game of Nine Men's Morris.

2.11 Restarting and Replaying a Game

Description

As a user, after having completed a game of Nine Men's Morris, I need the GUI to prompt me to either play again or to end the game software so that I can accordingly choose whether to keep playing or to end my game session.

[Template User Story]

Description

Priority

Estimate

Actual

Status

Developer

3 Acceptance Criteria

The following section covers the acceptance criteria enumerated in response to the User Stories discovered and documented in §2. In a similar fashion to §2, the table documenting these acceptance criteria is in a simplified form. Every Acceptance Criterion has an Acceptance Criterion ID (ACID), which

is associated in the table below with its respective SID, development status, and the developers responsible for implementing it. Each ACID is linked to its respective subsection below for viewing the description of each criterion.

SID & Name	ACID	Status	Developer(s)
1	1	Qux	Bizz
2			

3.1 Criterion 1

ACID	Description
1	
1.0	

Further Notes

[TEMPLATE, Remove UNNUMBERED prop] Criterion N

ACID	Description
1	_
1.0	

Further Notes

4 Implementation Tasks

This section summarizes the details of implementation tasks for the project. You will find in each subsection a table similar to those found in §2 and §3.

4.1 Summary of Production Code

SID & Name	ACID	Class Name(s)	Developer(s)	Status	Notes
1	2	Qux	Daz	Qud	Foo

4.1.1 Class QUX

Class summary goes here.

Method	Notes
Bizz	blah blah blah

[TEMPLATE] Class FOOBAR

Class summary goes here.

Method	Notes
Qud	blah blah blah

4.2 Automated Test Code

SID & Name	ACID	Class Name(s)	Method Name(s)	Description	Status	Developer
1	2	Foo	Bar	Fizz	Buzz	Quz
						ļ

4.3 Manual Test Code

			Test	Test			
ĺ	SID & Name	ACID	Input	Oracle	Status	Notes	Developer(s)
ĺ	1	2	Fizz	Fuzz	Quz	Bar	Qud

4.4 Other Manual Test Code

	ID	Test Input	Expected Result	Class Name	Method Name of Test	Status	Developer
ĺ	1	Foo	Bar	Fuzz	Quz	Fizz	Bazz
					-		

5 Meeting Minutes