Web Diplomacy

Requirements Specifications



Diplomats

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Course: CptS 322 - Software Engineering Principles I

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I. Introduction

In this project we will create a web version of the classic board game Diplomacy. This will allow users to play the board game online with other players in any location.

Document Revision History

Rev 1.0 2017-09-24 Initial Version

II. Requirements Specification

1. Customer, Users, and Stakeholders

Customer: Anyone who wants to play the board game Diplomacy online

Users: Anyone attempting to use our <u>platform</u> Members: users who are signed into an account

Players: a member who is in a game

Stakeholders: The team

2. User Stories

NOTE: we will fill in variables during the first iteration when we know more about the limitations.

TODO Iteration for each Story

Name	Signup	
Actors	Users	
Triggers	User requesting an account to this site	
Preconditions	User is not a member User is at login screen	
Actions	 System takes the user to the create account page User inputs account information System shows the user that the account has been made User acknowledges creation System takes the user to the Join Game page 	
Postconditions	 User is signed in to their new account System considers User as Member User is on the Join Game page 	
Acceptance Tests	 System does not accept duplicate members System does not accept mismatched passwords 	

Iteration	3
Alt paths	 The username is already taken The user cancels Haven't provided enough information Some input is invalid

Name	Login
Actors	Users
Triggers	User requests to be logged in
Preconditions	User is not a Member
Actions	 User inputs account information System verifies account information to be a valid account System considers User a Member System takes User to the Join Game page
Postconditions	User is now a Member and on the Join Game page
Acceptance Tests	 System does not accept non-existent account information User is now a Member Member is on the Join Game page
Iteration	3
Alt Paths	User's account information is invalid

Name	Logout
Actors	Member
Triggers	Member wants to log out
Preconditions	Member is logged and in Join Game Page
Actions	 System considers Member as User System takes User to Login page

Postconditions	Member is a User User is taken back to the login page
Acceptance Tests	Member is now a User User is now on Login page
Iteration	3
Alt paths	None

Name	Join Game
Actors	Members
Triggers	Member wants to play a game
Preconditions	There are at least n members who want to play
Actions	 System generates game with x->n members System considers members as players Players are taken to game page
Postconditions	Players are at the game page with the newly created game
Acceptance Tests	Player is in new game with x->n-1 other players
Iteration	2
Alt Paths	None

Name	View Rules
Actors	Members
Triggers	Member would like to review the rules of the game
Preconditions	Member is on the Join Game page
Actions	System displays the rules to the Member
Postconditions	Member is on the rule page
Acceptance Tests	The Member can view the rules of the game

Iteration	1
Alt Paths	None

Name	Create an Order
Actors	Player
Triggers	Player selects one of their own units
Preconditions	 Player has not confirmed their orders The unit must be one that the player controls
Actions	 System prompts player for which order to give The player chooses an order The system asks further information to fulfil all of the orders requirements Player gives additional information as prompted System validates order System accepts order System places order on unit and overrides any existing order System marks unit as being ordered
Postconditions	 Unit is marked as having been ordered System accepts order
Acceptance Tests	 System cannot accept invalid orders System has order placed on the unit The unit is marked as being ordered
Iteration	1
Alt Paths	 Player cancels order Player provides invalid information for order

Name	Commit Orders
Actors	Player
Triggers	Player requests to confirm orders

Preconditions	
Actions	 System locks in players orders All of the player's units are marked as given orders Players are no longer allowed to change orders System waits for all players in the game to confirm orders System updates gameboard for all players System asks players where they would like to relocate units, add units and/or which units to lose, if applicable Players respond with necessary information. System removes all orders from units System marks units as unordered Players are now allowed to give orders again
Postconditions	 Gameboard is updated updated for all players Players are allowed to give orders No units are marked as having been given orders No units have orders assigned to them
Acceptance Tests	 Players are allowed to give orders No units are marked as having been given orders No units have orders assigned to them System waits until all players have confirmed orders The gameboard is updated for all players Players cannot give orders while system is waiting System correctly adds/removes/relocates units
Iteration	1
Alt paths	1. A player leaves the game

Name	Exit game		
Actors	Player		
Triggers	Player requests to exit game		
Preconditions			
Actions	 System confirms Player would like to leave User acknowledges that they would like to leave System removes Player from game System considers Player as Member 		

	5. System takes Member to Join Game page6. System removes all of the Player's units from the game
Postconditions	 Member is on the Join Game page Member is no longer in the game Member's units are no longer a part of the game
Acceptance Tests	 Player becomes a Member Warning about player leaving game is shown when player requests to exit the game Member is on the Join Game page Players units are removed from game board
Iteration	2
Alt Paths	Player declines leaving

Name	Timeout		
Actors	Player		
Triggers	Player has not performed any actions in the last 3 minutes		
Preconditions	Player has not confirmed orders		
Actions	 System warns Player that they will be timed out in 30 seconds System waits for 30 seconds System removes Player from game System considers Player as Member System takes Member to Join Game page System removes all of the Player's units from the game System notifies the Member that they were timed out 		
Postconditions	 Member is on the Join Game page Player is now a Member Member is on the Join Game page Players units are removed from game board 		
Acceptance Tests	 Player is warned about being timed out Player becomes a Member Warning about player leaving game is shown when player requests to exit the game Member is on the Join Game page 		

		5. Players units are removed from game board6. The Member is notified of being timed out
Iteration	2	
Alt Paths	1	. User interacts with the system before 30 seconds expires

3. Non Functional Requirements

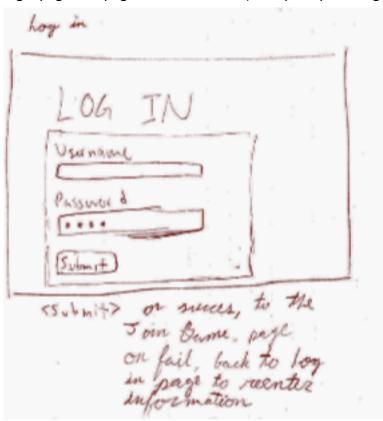
Needs to be played on desktop

Must have an internet connection for the game.

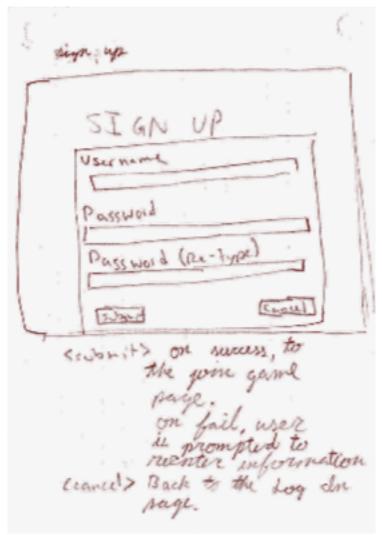
Rules (in references) will be implemented in game.

III. User Interface Requirements

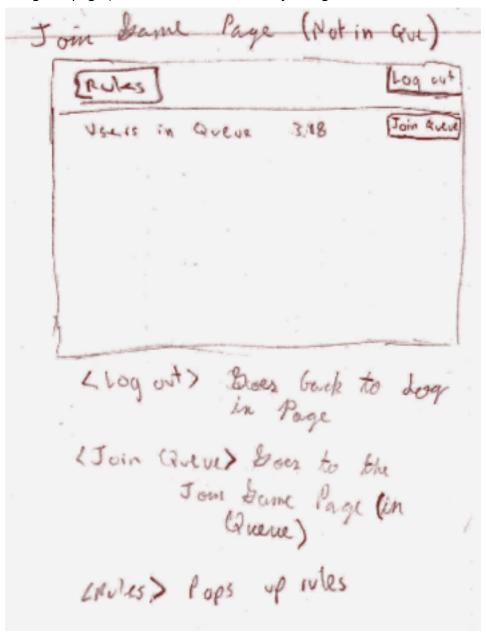
Login page first page the user will see(have prompts to login and create account)



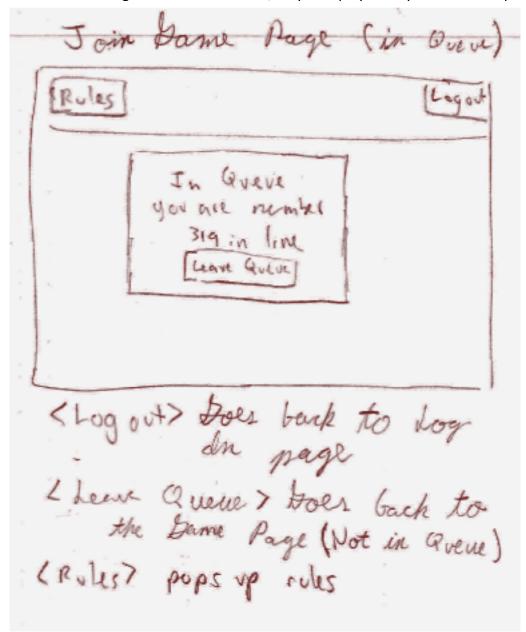
Sign up page will allow a user to sign up for an account



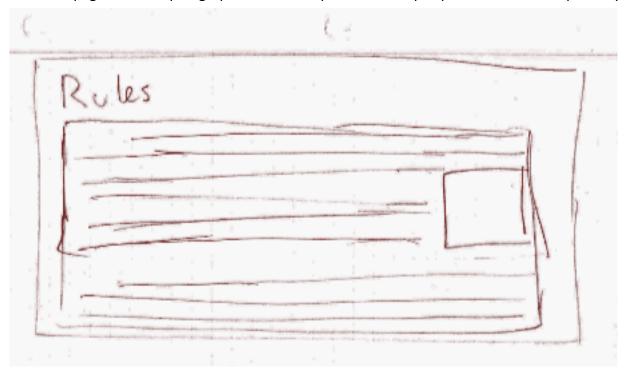
Join game page (where the user will ask to join a game



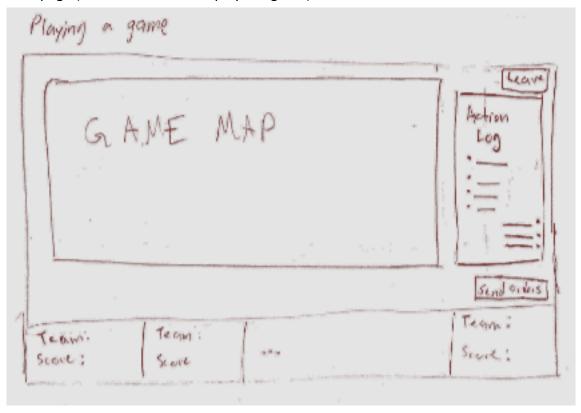
The Join Game Page. The same as above, only it displays that you are in the queue



The Rules page will have paragraphs of text and pictures to help explain the rules of diplomacy

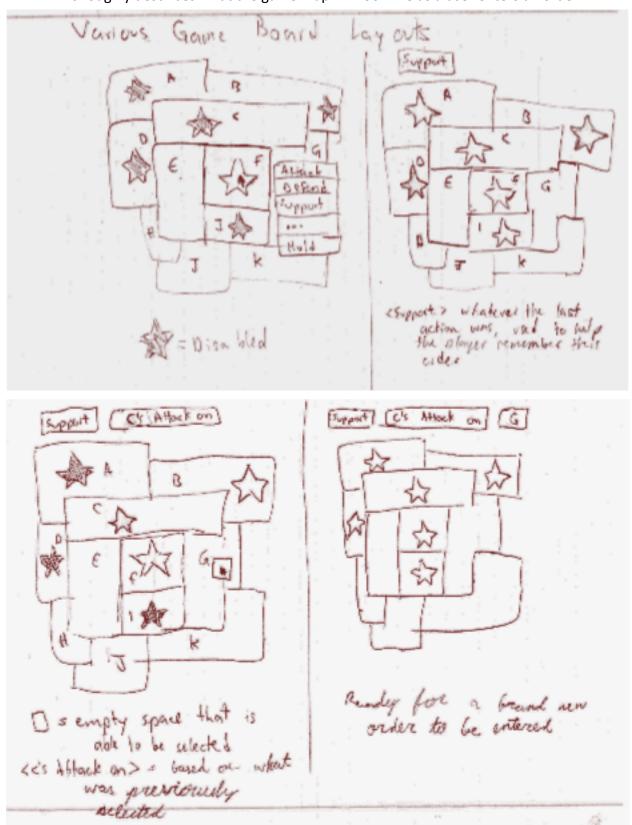


Game page (where the users will play the game)



- <Send Orders> will allow the user to confirm sending its moves to the server
- <Leave> will allow the user to disconnect from the game
- <Action Log> Will list of actions that have occurred in the game.
- <Game Map> Will display the map of the game with the pieces in it.
- <Team> Will display a team name
- <Score> Will display the corresponding team's score

This roughly describes what the game map will look like as a user enters an order



IV. References

1.

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In-text: (Majeski, 2017)

Your Bibliography: Majeski, S. (2017). The Rules of Diplomacy. [online]

Faculty.washington.edu. Available at:

http://faculty.washington.edu/majeski/426/sim1.html [Accessed 28 Sep. 2017].

2. Example Game Board from http://www.ultradiplomacy.com/bigmap.gif

