Team 15

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Product Backlog

Cardglomerate

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**Problem Statement:**

We intend to build a web-based application for one or more users to play a variety of card-based games with each other or computer AI. Within this application will also be metagame features such as statistics, achievements, and inter-user chat.

**Background Information:**

Web based card games are very popular, and this is reflected in the number of websites and applications with this purpose. A simple search finds sites such as games.com and pogo.com with an abundance of digital card games. However, they are often made quickly and for the purpose of ad or microtransaction revenue. Others have existed for a long time with no update to infrastructure. We intend to build a system with both user experience and infrastructure in mind. To the end of user experience, we will create modern metagame structures such as leaderboards, achievements, and player stats and profiles, which are popular with today’s gamers. To the end of infrastructure, we will build a card game framework that maximizes code reuse between games. Our targeted user base is anyone with a computer, internet access, and that plays card games.

**Functional Requirements**:

|  |  |
| --- | --- |
| Must be Done | Will be Done (if time) |
| 1 functional playable card game | A variety of different card games |
| Browser / web based system for multiplayer | Statistics / achievements / leaderboards |
| User account system | Password recovery system |
|  | Friends/contacts list |
|  | Chat |
|  | Matchmaking |
|  | AI for each card game |

As a user, I would like to be able to log into my account.

As a user, I would like to be able to play at least one type card game.

As a user, I would like to be able to play at least one type card game with my friends.

As a user, I would like to be able to play multiple types of card games. (if time allows)

As a user, I would like to be able to compete with my friends through statistics/achievements/leaderboards. (if time allows)

As a user, I would like to be able to recover my password if I forget it. (if time allows)

As a user, I would like to be able to have a friends list. (if time allows)

As a user, I would like to be able to chat with my friends. (if time allows)

As a user, I would like to play against random players in a matchmaking. (if time allows)

As a user, I would like to be able to play against AI. (if time allows)

**Non-Functional Requirements Priority**:

Response Time: High, nobody likes a laggy game

Scalability: Moderate, would like to add more card games in the future

Usability: High, website and UI need to be clear and non confusing

Availability: High, website needs to be available and not crash often

Performance: Moderate, card game logic is not intense but we still don’t want lag

**Use Cases**:

I did not create any use cases for actual in game stuff since we do not know which card games we will have on the platform yet. Once we know what games we will offer I can make new use cases for each specific game (if required).

Log In

|  |  |
| --- | --- |
| User | System |
| 1. Enter in Site URL | 1. Display login page |
| 1. Enter username and password | 1. Display main page (list of games etc) |

Attempt to log in with incorrect username and password

Related Use Case: Log In

|  |  |
| --- | --- |
| User | System |
| 1. Enter in Site URL | 1. Display login page |
| 1. Enter username and password | 1. Display incorrect username or password dialog |
| 1. Click ok | 1. Dialog disappears |

Create an Account

|  |  |
| --- | --- |
| User | System |
| 1. Enter in Site URL | 1. Display login page |
| 1. Click create an account | 1. Display create account page |
| 1. Enter in a username 2. Enter in a password 3. Confirm password | 1. Display confirmation 2. Return to log in page |

Create an account with already in use username or non-matching passwords

Related Use Case: Create an Account

|  |  |
| --- | --- |
| User | System |
| 1. Enter in Site URL | 1. Display login page |
| 1. Click create an account | 1. Display create account page |
| 1. Enter in a username 2. Enter in a password 3. Confirm password | 1. Display error message |
| 1. Reenter username / password | 1. Display confirmation 2. Return to log in page |

Recover forgotten password

(there is a lot of stuff that could go wrong here like incorrect email, incorrect code, etc, will make those if needed)

|  |  |
| --- | --- |
| User | System |
| 1. Enter in Site URL | 1. Display login page |
| 1. Click forgot password | 1. Display enter email address dialog 2. Send password recovery email with code 3. Display enter code dialog |
| 1. Enter in code given in email address | 1. Display change password page |
| 1. Enter new password 2. Confirm new password | 1. Display confirmation of page 2. Display log in Page |

Change Password

(Not making a change username use case, it’s basically the same as password)

|  |  |
| --- | --- |
| User | System |
| 1. Click account settings button (from main page?) | 1. Display account Settings page |
| 1. Click change password | 1. Display change password page |
| 1. Enter old password 2. Enter new password 3. Confirm new password (enter again) | 1. Display confirmation of change |

Attempt to change password with invalid old password or non-matching new passwords

Related Use Case: Change Password

(Not making one for attempt to change username to one already in use, same as this)

|  |  |
| --- | --- |
| User | System |
| 1. Click account settings button (from main page?) | 1. Display account Settings page |
| 1. Click change password | 1. Display change password page |
| 1. Enter old password 2. Enter new password 3. Confirm new password (enter again) | 1. Display error dialog asking user to reenter information |
| 1. Enter correct information | 1. Display confirmation, error dialog disappears |

Set up password recovery option (tie an email to the account)

|  |  |
| --- | --- |
| User | System |
| 1. Click account settings button (from main page?) | 1. Display account Settings page |
| 1. Click set up password recovery | 1. Display password recovery setup page |
| 1. Enter an email address | 1. Display confirmation |

Set up password recovery option with an invalid email address

Related Use Case: Set up password recovery option

|  |  |
| --- | --- |
| User | System |
| 1. Click account settings button (from main page?) | 1. Display account Settings page |
| 1. Click set up password recovery | 1. Display password recovery setup page |
| 1. Enter an email address | 1. Display invalid email address error dialog |
| 1. Enter a valid email address | 1. Display confirmation, error dialog disappears |

Message a Friend

|  |  |
| --- | --- |
| User | System |
| 1. Click friends list button (from main page?) | 1. Display friends list |
| 1. Scroll to desired friend 2. Right click on name of friend | 1. Display list of actions |
| 1. Select send message 2. Type message and send | 1. Display sent message in chatbox   (either open new chatbox for that conversation or just put into main chat) |

Add a friend

|  |  |
| --- | --- |
| User | System |
| 1. Click friends list button (from main page?) | 1. Display friends list |
| 1. Click add a friend button (bottom of friends list) | 1. Display add a friend dialog |
| 1. Enter friends username | 1. Display confirmation 2. Add a friend dialog disappears 3. Re-display friends list |

Attempt to add a friend but enter invalid username

Related Use Case: Add a friend

|  |  |
| --- | --- |
| User | System |
| 1. Click friends list button (from main page?) | 1. Display friends list |
| 1. Click add a friend button (bottom of friends list) | 1. Display add a friend dialog |
| 1. Enter incorrect username | 1. Display incorrect username error |
| 1. Click ok | 1. Re-display add a friend dialog |
| 1. Enter correct username | 1. Display confirmation 2. Add a friend dialog disappears 3. Re-display friends list |

Remove a friend =(

|  |  |
| --- | --- |
| User | System |
| 1. Click friends list button (from main page?) | 1. Display friends list |
| 1. Scroll to desired friend 2. Right click on name of friend | 1. Display list of actions |
| 1. Select remove friend | 1. Display confirmation dialog |
| 1. Click ok | 1. Display confirmation |

Launch a game against AI

|  |  |
| --- | --- |
| User | System |
| 1. Select game to play from main page | 1. Display game options dialog |
| 1. Select play against AI | 1. Display list of difficulties |
| 1. Select a difficulty | 1. Launch game |

Launch a game against AI (alternate)

Related Use Case: Launch game against AI

|  |  |
| --- | --- |
| User | System |
| 1. Select play a game from main page | 1. Display list of games |
| 1. Select game to play | 1. Display game options dialog |
| 1. Select play against AI | 1. Display list of difficulties |
| 1. Select a difficulty | 1. Launch game |

Launch a game against a friend

|  |  |
| --- | --- |
| User | System |
| 1. Select game to play from main page | 1. Display game options dialog |
| 1. Select play versus a friend | 1. Display friends list |
| 1. Select a friend (or multiple friends if necessary) | 1. Send game invite dialog to friend(s) 2. Display game invite dialog for friend(s) |
| 1. Friend(s) click(s) accept | 1. Game Launches |

Launch a game against a friend (friend declines =( )

Related Use Case: Launch a game against a friend.

|  |  |
| --- | --- |
| User | System |
| 1. Select game to play from main page | 1. Display game options dialog |
| 1. Select play versus a friend | 1. Display friends list |
| 1. Select a friend (or multiple friends if necessary) | 1. Send game invite dialog to friend(s) 2. Display game invite dialog for friend(s) |
| 1. Friend(s) click(s) decline | 1. Display “Friend X declined game invite” dialog to original user |
| 1. Clicks ok | 1. Decline dialog disappears 2. Re-displays friends list |

Launch a game against matchmade opponent(s)

|  |  |
| --- | --- |
| User | System |
| 1. Select game to play from main page | 1. Display game options dialog |
| 1. Select play against players | 1. Display please wait to find players dialog 2. Display players found dialog 3. Launch game |

Launch a game against matchmade opponent(s) then cancel

Related Use Case: Launch a game against matchmade opponent(s)

|  |  |
| --- | --- |
| User | System |
| 1. Select game to play from main page | 1. Display game options dialog |
| 1. Select play against players | 1. Display please wait to find players dialog |
| 1. Click cancel search | 1. Please wait to find players dialog disappears 2. Display game options dialog |