

Term Project 667 - Scrabble

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Team Information

Team Name: term-project-667-project-alavi-chalke-mazumdar

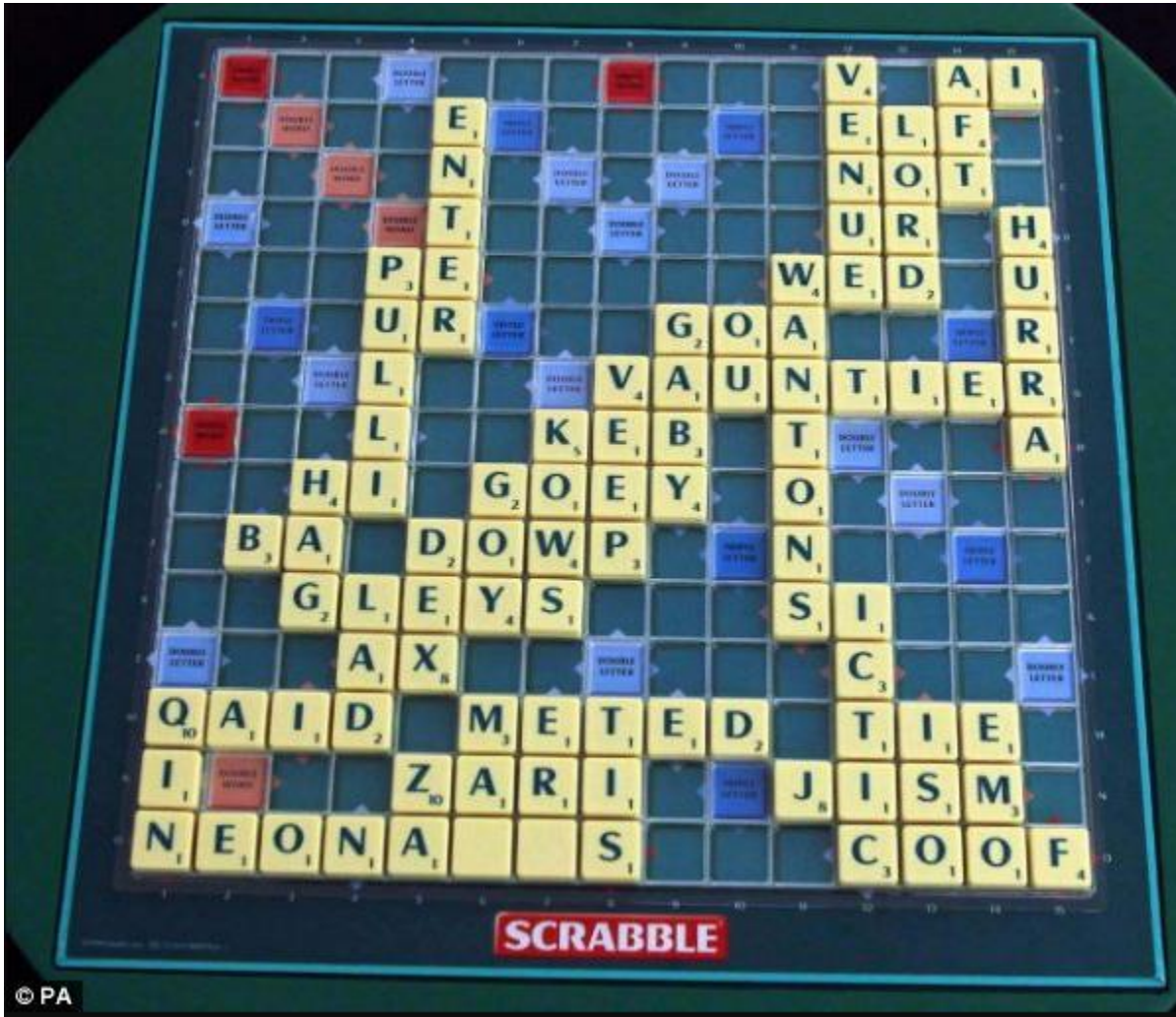
Team Members: Ali Alavi
Ajinkya Chalke
Neharika Mazumdar

Github Repository Link:

<https://github.com/sfsu-csc-667-fall-2017/term-project-667-project-alavi-chalke-mazumdar>

Game Overview

Scrabble is a word game in which two to four players score points by placing tiles bearing a single letter onto a board divided into a 15×15 grid of squares. The tiles must form words which, in crossword fashion, read left to right in rows or downwards in columns, and be defined in a standard dictionary or lexicon. A sample board is shown below.



A standard game contains 100 letters and each player starts with 7 letters on their rack which are distributed randomly. Each letter has a score associated with it and the total score for a word depends on the sum of all individual letters. The board has premium squares, identified by unique colors, which multiply the letter or word points based on the square.

The game finishes when one player plays every tile on his or her rack, and there are no tiles remaining in the bag (regardless of the tiles on his or her opponent's rack). The player with the highest score at that point wins.

More information: <https://en.wikipedia.org/wiki/Scrabble>

Wireframes

Login page

1. Basic information about the game and a link to the rules
2. Login form for returning users along with a link to the forgot password page
3. Signup form for new users

Login Page

This will expand to incorporate login error

Logo

User Name

Password

Forgot Pass → Forgot Password Page

→ Lobby Page

Image of our Scrabble board at some state

Let's Scrabble!

Sign up

Username

Email

Password

Confirm Password

Accept our T&C ☐

→ Lobby Page

*Error Message Text

Terms & Conditions → T&C Page

Help → Help page which has rules & how to play

About Us → About us page

Forgot Password Page

1. For sending password reset instructions to the email address provided in the form

Forgot Password / Reset Password

Logo	User Name <input type="text"/>	Password <input type="password"/>	<u>Forgot Pass</u> <input type="button" value="Login"/>
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E-mail Address:

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* Will display success/error message depending on validity of e-mail address entered

Lobby Page

1. A chat window to chat with all active users in the lobby
2. Create game option to start a game with the minimum number of players you want
3. A table displaying the current games in progress and an option to either join or spectate based on the game status. This table is searchable and sortable.
4. A view of the leaderboard.

Lobby Page

Logo

Lobby

Create new game:

No. of players:

Join Game:

Created By	No. of players	Status	
X Y Z	2 / 4	Waiting for Players	Join Spectate
A B C	4 / 4	In progress	Join Spectate

Game Page → Account Page

Lobby My Account Logout → Login Page

Leadership board

Name	Win %	Score
1)		
2)		
3)		
4)		
5)		

Your Stats

Chat

X: Hi Whatsup? :Me
Yo!!

Y: Hey guys!

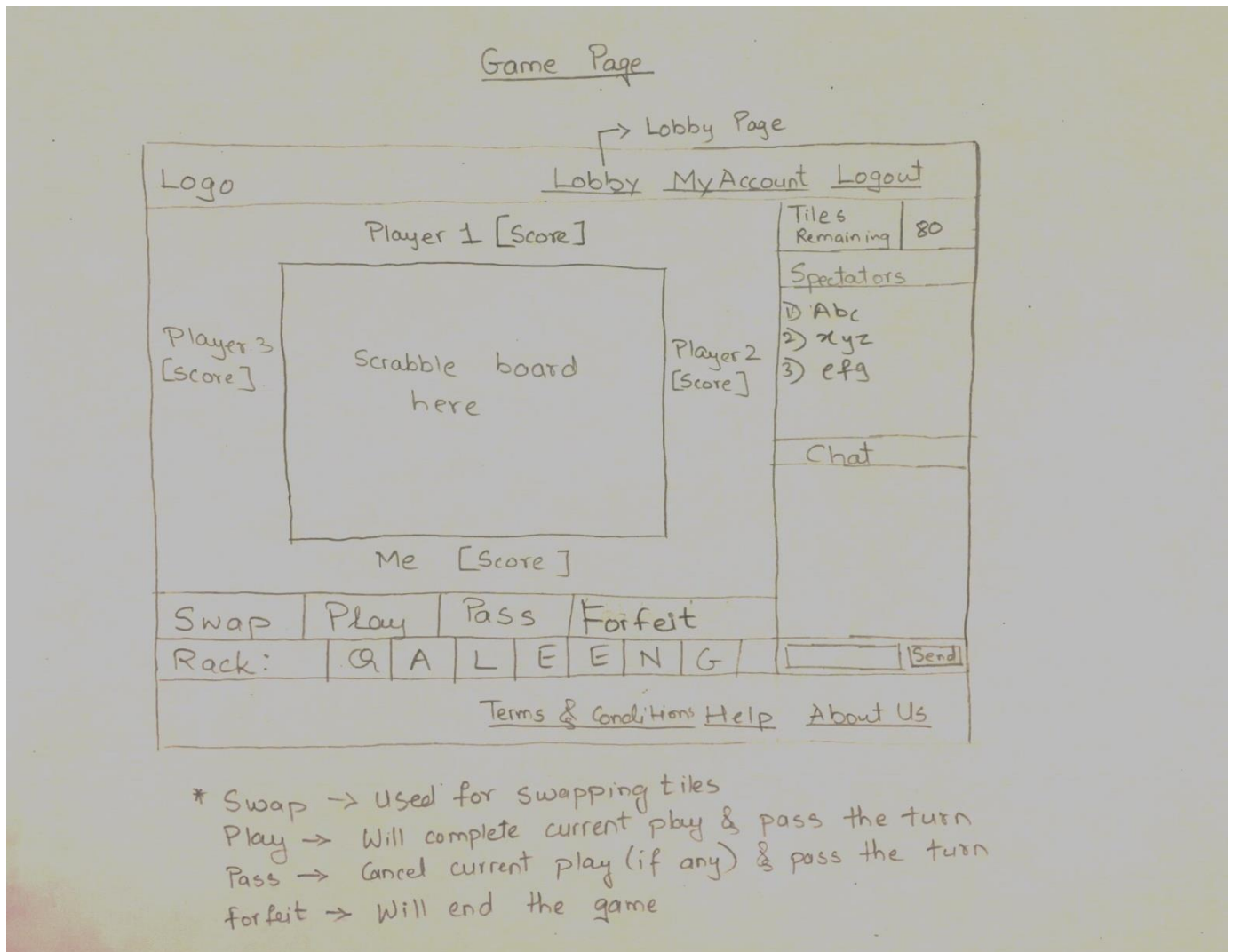
→ Sends message

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* Join & Spectate both lead to Game page.

Game Page

1. Displays the game board, a 15 X 15 grid which shows the current game state.
2. An alphabet rack which displays the current letters the user can play with on their turn
3. The possible actions the user can take on their turn
 - a. Play - Place letters on the board and make their move if the word is a legitimate one. This will be checked by making a call to the API.
 - b. Pass - Forfeit their turn.
 - c. Swap - Replace upto 7 tiles in the rack with remaining alphabets in the tile bag. This counts as a turn.
4. Displays the other users' names and their current score.
5. A chat window to interact with the users in the game.
6. Displays the number of remaining tiles in the bag.
7. The user can forfeit the game at any point in time.
8. User will be given options for continuing or forfeiting the game on navigation to another URL.



Account Page

1. Displays the user's details along with the reset password functionality.
2. Displays basic stats such as average score per game, percentage of games won, e.t.c
3. Lists the user's history of games in a table which is sortable and searchable.

My Account Page

Logo

[Lobby](#) [My Account](#) [Logout](#)

My Account

Username: _____

Password: _____

Email ID: _____

Average Score: _____ Rank: _____

Win percentage: _____ Total games: _____

Games Played:

Created By	Score	Result	Date

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