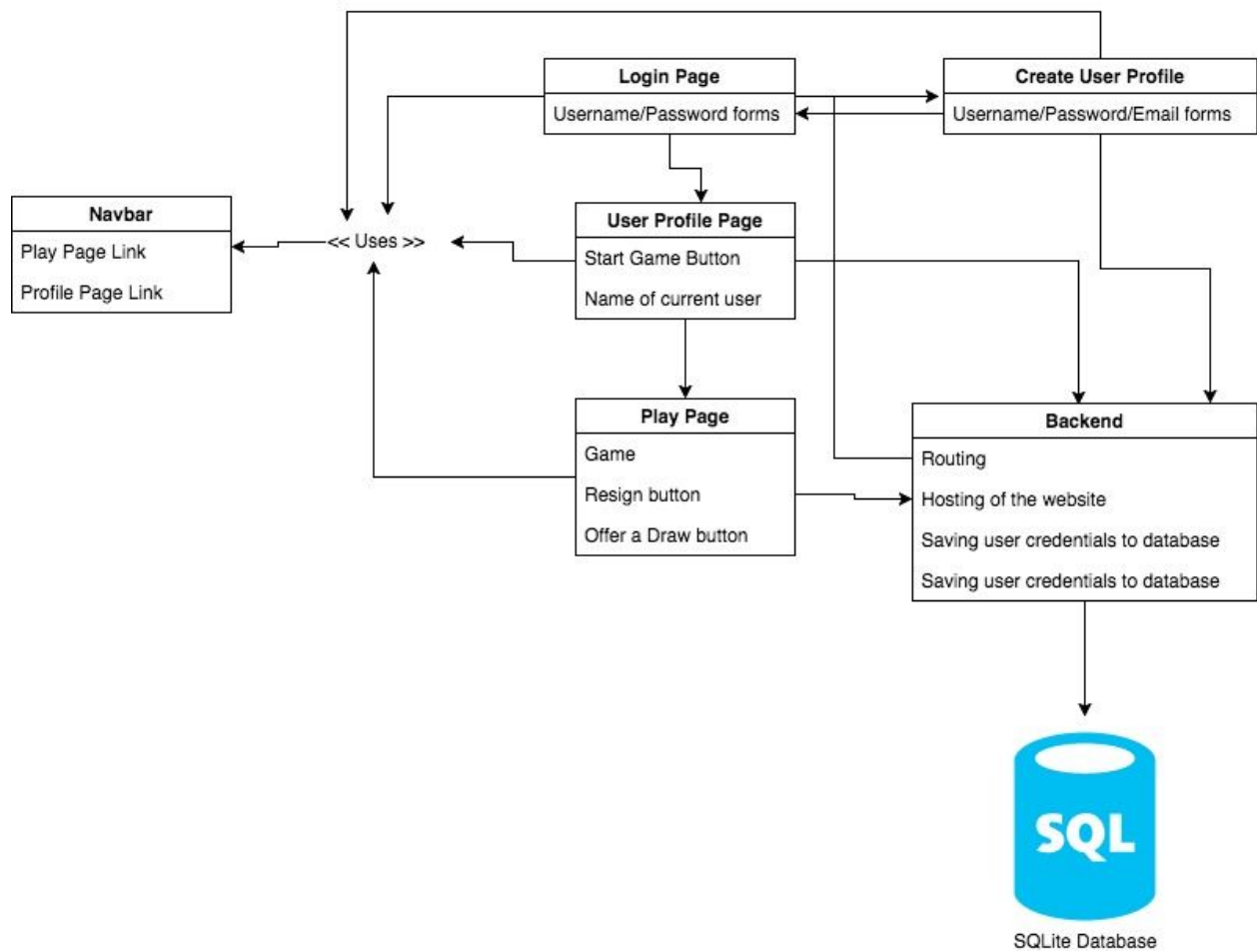


# BoilerChess

## Team 18 - Product Test Plan

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### 1. Classification of Components



## 2. Incremental and Regression Testing

### Chess.js

#### Incremental Testing

Num	Description	Severity	How Corrected
1	Certain move sets weren't very suited for testing	Medium	Refactored Chess.js code better suit
2	Move validation done client side may ignore attempted moves by other player	High	Have final illegal move checking on server side before sending to other player
3	No check for stalemate	Medium	If only to pieces left are kings, declare stalemate
4	Queening doesn't check if choice is valid, dead unit	Low	Instead of sampling deleting dead units, store them and remove if necessary.
5	Game was difficult to manage and maintain due to not have central location for all information	High	Created Game class which owns 2 player classes who own all of their pieces
6	Dead Pieces have nowhere to go and can occupy same space as other pieces	High	Added "alive" variable to piece to determine whether or not piece is displayed

#### Regression Testing

Num	Description	Severity	How Corrected
1	SQL server had mixed performance for team members	High	Switch to SQLite server for ease

2	It can be hard to tell which piece is selected	Low	Highlight selected piece with a different color
3	String sent to server was far too long and didn't follow clear format	Low	Change text to more readable size and color

## Front-End Elements

### Incremental Testing

Num	Description	Severity	How Corrected
1	No sanitization on input	High	Added sanitization
2			

### Regression Testing

Num	Description	Severity	How Corrected
1	Failure to load ELO from backend crashes user badge in User Profile	High	Used JS "mustaches" to input variable and replaced w/ dummy for now

### 3. Product Backlog Update

#### Functional Requirements:

Backlog ID	Functional Requirement	Hours	Status
1	As a user, I would like to be able to create a profile which contains my email, username, password.	40	Complete
2	As a user, I would like to see my profile which will show the email, username.	10	Complete
3	As a user I would like to be able to play on my own without an opponent.	20	Complete
4	As a user, I would like a display showing all the past moves of the current game.	6	In Progress
5	As a user I would like to log in with my username and password.	10	Complete
6	As a user, I would like squares to be highlighted that are valid moves for the currently selected piece when it is my turn	6	Complete
7	As a user I would like my username and password to be saved for the next time I attempt to log in	10	Complete
8	As a user I would like to know if my password or username is incorrect	10	Complete
9	As a user I would like to know if the game has ended due to checkmate	20	Complete
10	As a user I would like to make sure all moves are final with no redo's	15	Complete