11/3/2019	CRC Maker		
Application			
<ul><li>Handle login</li><li>Render Welcome and Main Page</li></ul>	<ul><li>Welcome</li><li>Main</li></ul>		
Login			
<ul><li>Validates user credentials</li><li>Sends user to main page upon successful login</li></ul>	<ul><li>Application</li><li>Welcome</li></ul>		
	ister		
<ul><li>Inserts new users into database and creates profile</li><li>Validates new credentials are correct format and unu</li></ul>	<ul><li>Application</li><li>welcome</li></ul>		

GamePag	je
<ul> <li>Display current state of the board</li> <li>Show selected piece</li> <li>Send move made to back end</li> </ul>	<ul><li>Main</li><li>Match</li></ul>

Sends user to login page after successful registration

Main	
<ul> <li>Display current and past games from back end</li> <li>Display current user logged in</li> </ul>	<ul><li>Match</li><li>Login</li></ul>

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Welcome	
<ul> <li>Initial page user sees upon visiting website</li> <li>Allows user to go to login or register page</li> <li>Displays info about Jungle game and devs</li> </ul>	

HTTPRestful	
Handle register and login requests	• Login
Start server	Register
Creates match objects	

InitServer	
Initialize the server using an HTTPRestful object	• HTTPRestful

	JungleBoard	
	Create a new board	• Piece
•	Initialize the starting pieces	
•	Place pieces	
•	• Get piece at certain position	
•	Make moves by updating piece locations	
•	Hold current game state variables for front end communication	

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bstract <b>Piece</b> Rat, Cat, Wolf, Dog, Leopard, BigCat, Lion, Tiger, Elepha	
<ul> <li>Hold information for each piece like rank, color, row and column</li> <li>Get and set piece positions</li> <li>Check and return legal moves for each piece</li> <li>Check if a move will trap the piece</li> <li>Check if a move will win the game</li> <li>Set winner and state of game for front end use</li> </ul>	<ul><li>JungleBoard</li><li>Child classes</li></ul>
Rat	Piece
<ul> <li>Create Rat pieces</li> <li>Set Rat rank</li> <li>Check legal positions as Rat has special moves</li> </ul>	• Piece
Cat	Piece
<ul><li>Create Cat pieces</li><li>Set Cat rank</li></ul>	• Piece
Wolf	Piece
<ul><li>Create Wolf pieces</li><li>Set Wolf rank</li></ul>	• Piece
Dog	Piece
<ul><li>Create Dog pieces</li><li>Set Dog rank</li></ul>	• Piece

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	Leopard		Piece
1	Create Leopard pieces Set Leopard rank	• Piece	
	Piece <b>BigCat</b> Lion, Tiger		
•	Check legal moves for Lion and Tiger child classes as they have special moves	<ul><li>Piece</li><li>Lion</li><li>Tiger</li></ul>	
	BigCat, Piece <b>Lion</b>		
1	Create Lion pieces Set Lion rank	<ul><li>BigCat</li><li>Piece</li></ul>	
	Tiger		BigCat, Piece
1	Create Tiger pieces Set Tiger rank	<ul><li>BigCat</li><li>Piece</li></ul>	
	Piece <b>Elephant</b>		
1	Create Elephant pieces Set Elephant rank	• Piece	

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RetrieveMatches		
Communicate with database to pull all active and past matches for a user	• Match	
RetrieveProfile		
Communicate with database to pull user profiles	• Profile	
Profile		
Hold information about each user		
Match		
Move data between JungleBoard and GamePage	JungleBoard	
Communicate with database to pull current state of games	GamePage	
Set game state variables	HTTPRestful	