Application	
Handle login	Welcome
Render Welcome and Main Page	• Main
Login	
Validates user credentials	Application
Sends user to main page upon successful login	• Welcome
Register	
Inserts new users into database and creates profile	Application
Validates new credentials are correct format and unused	• Welcome
Sends user to login page after successful registration	
GamePage	
Display current state of the board	• Main
Show selected piece	• Match
Send move made to back end	
Main	
IVICITI	
Display current and past games from back end	• Match
Display current user logged in	• Login

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> HTTPRes	stful		
Handle all different request types	<ul><li>Login</li><li>Register</li><li>RetrieveMatches</li><li>RetrieveProfile</li></ul>		

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	
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Abstract Piece Rat, Cat, Wolf, Dog,	Leopard, BigCat, Lion, Tiger, Elephant
<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

Leopard		Piece
<ul><li>Create Leopard pieces</li><li>Set Leopard rank</li></ul>	• Piece	
BigCat	<u>'</u>	Piece 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>	<u> </u>
Lion		BigCat, Piece
<ul><li>Create Lion pieces</li><li>Set Lion rank</li></ul>	<ul><li>BigCat</li><li>Piece</li></ul>	
Tiger		BigCat, Piece
<ul><li>Create Tiger pieces</li><li>Set Tiger rank</li></ul>	<ul><li>BigCat</li><li>Piece</li></ul>	
Elephant		Piece
<ul><li>Create Elephant pieces</li><li>Set Elephant rank</li></ul>	• Piece	

RetrieveMatches	
• Communicate with database to pull all active and past matches for a user	<ul><li>Match</li><li>HTTPRestful</li></ul>
RetrieveProfile	
Communicate with database to pull user profiles	<ul><li>Profile</li><li>HTTPRestful</li></ul>
Profile	
Hold information about each user	
Match	
<ul> <li>Move data between Jungleboard and Gamepage</li> <li>Communicate with RetrieveMatches to pull current state of games, save games</li> <li>Set game state variables</li> </ul>	<ul><li>RetrieveMatches</li><li>JungleBoard</li><li>Gamepage</li></ul>