

# *The Jungle Game*

## Cheshire Coders

- Angélica Fallas
- Taner King
- Adam Gundem
- Alexander Hennings
- Cameron Ackerman

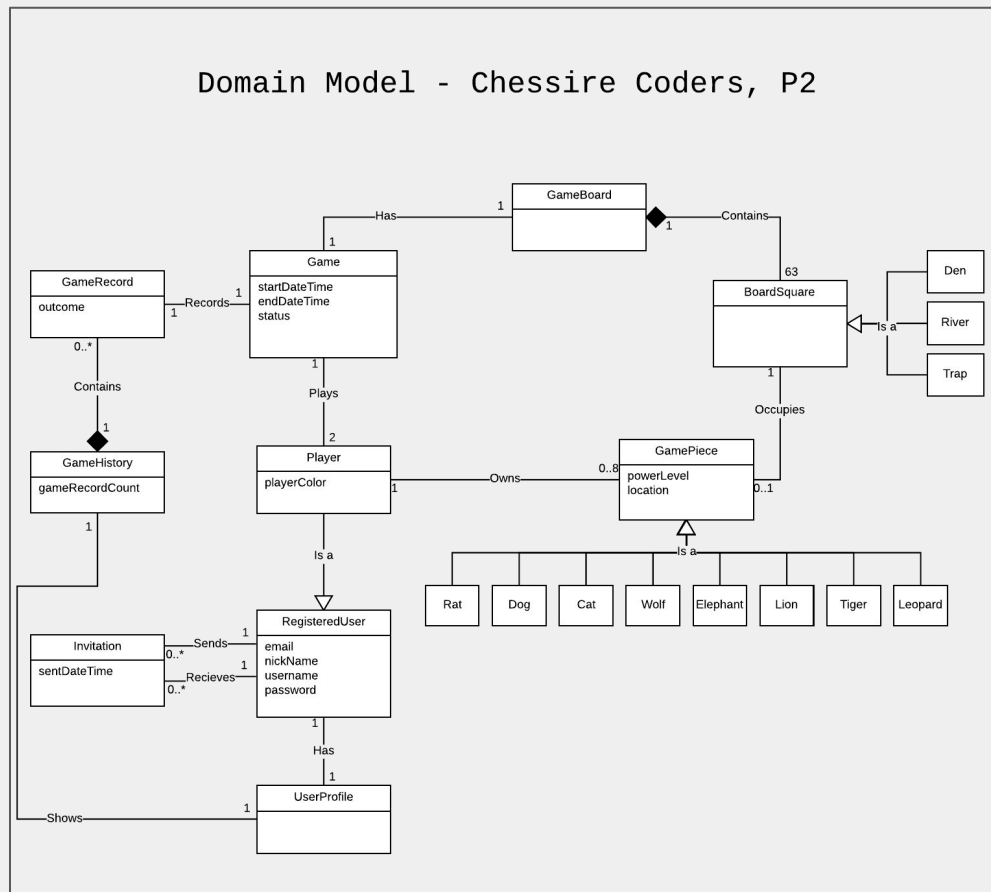


# ***Presentation Overview***

- Changes from last iteration
- Sequence diagrams
- Class diagrams
- Test Case Summary
- Project Tools
- Traceability Matrix & Use Case Progress
- Demo

# Domain Model Changes

Removed *piece* from **BoardSquare** and  
*players* from **Game**.



# Glossary Changes

- Added entries for attributes.
- Sorted items alphabetically.

## Glossary

**BoardSquare:** A representation of a single square on the Jungle board. A square has an attribute piece.

**Game:** An instance of a game of Jungle.

-**endDateTime:** Date and time when a game ended.

-**startDateTime:** Date and time when a game started.

-**status:** Status of a specific game (ongoing, completed, abandoned, etc)

**GameBoard:** A representation of the Jungle board that contains the current state of a game. The game board contains the different squares of Jungle, and any uncaptured Jungle pieces.

**GameHistory:** The game history is shown on each registered user's profiles. It includes a brief synopsis of each game played by that user.

-**gameRecordCount:** Represents the average score for a certain player.

**GamePiece:** A representation of a single Jungle piece. It is required that a game piece must be one of its eight different specialization types (i.e. if GamePiece were a Java class, it would be abstract). And there may be no more than one of each piece type per player.

-**location:** represents where a GamePiece is located withing a GameBoard.

-**powerLevel:**Represents the current level that a certain GamePiece has in a given state of the game.

**GameRecord:** A game record is the outcome of a single game of jungle.

-**outcome:** represents the final result of a certain GameRecord.

**Invitation:** An invitation is a request for another registered user to play a game with the sending user. Each invitation has one sender and one receiver.

-**sentDateTime:** specific date time value that represent when an invitation was sent.

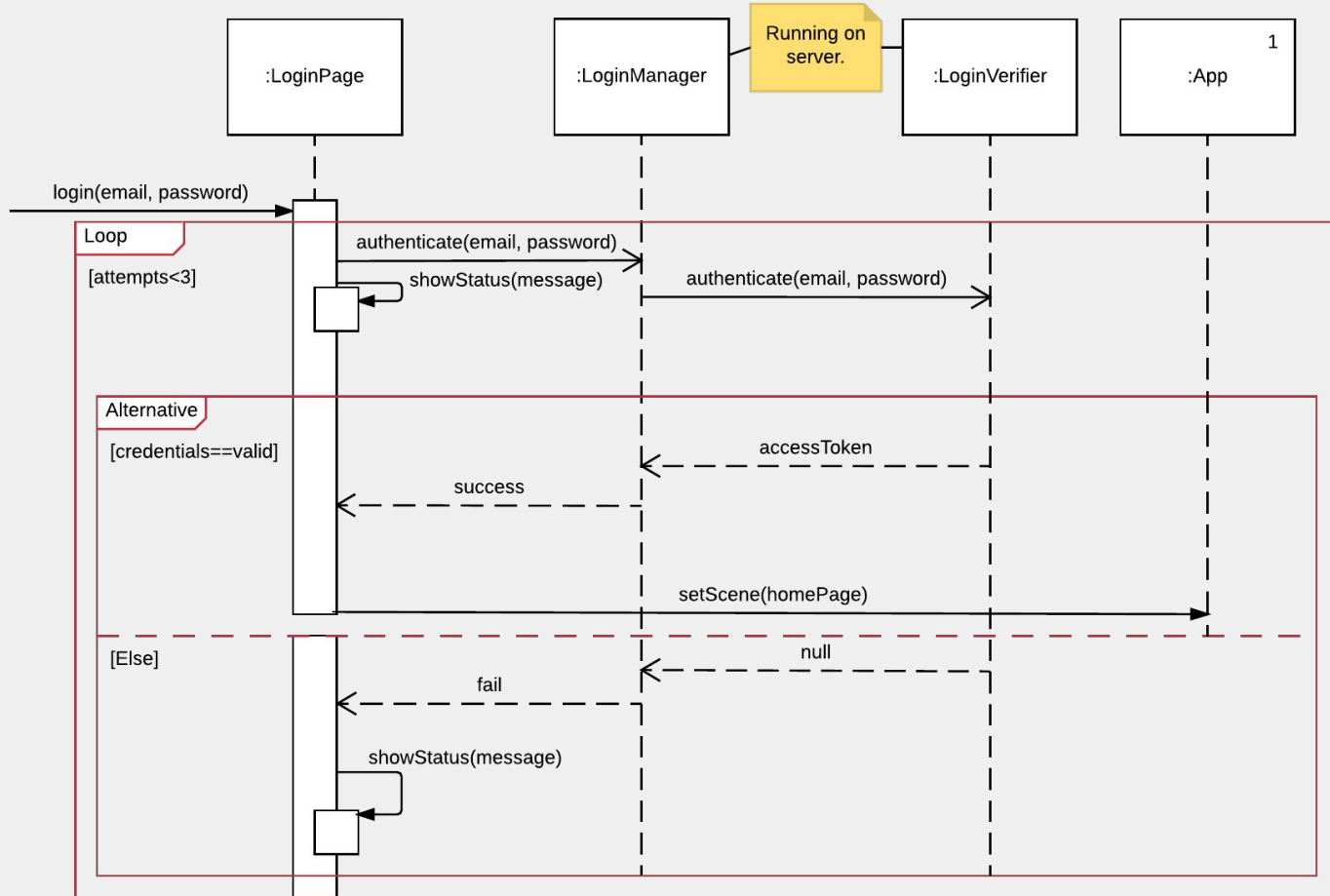
**Player:** An extension of a registered user. They may make moves, capture pieces, and perform other actions that the registered user entity cannot. Each player owns 0-8 game pieces(depending on how many have been captured by an opposing player) that they may control.

-**playerColor:** indicates what team the player is on.

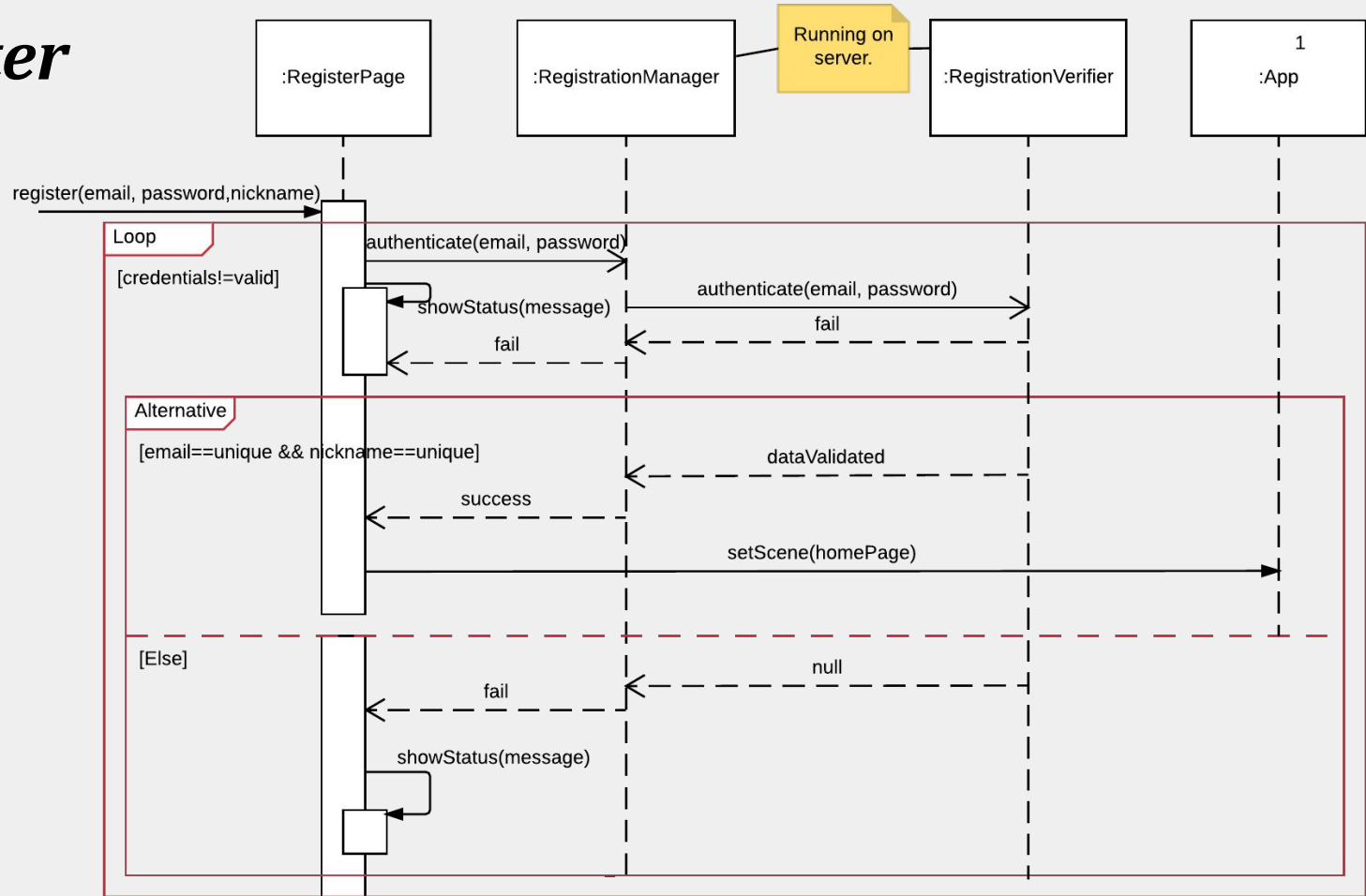
# *Sequence diagrams*

- Login
- Game Invite
- Game Create
- Register

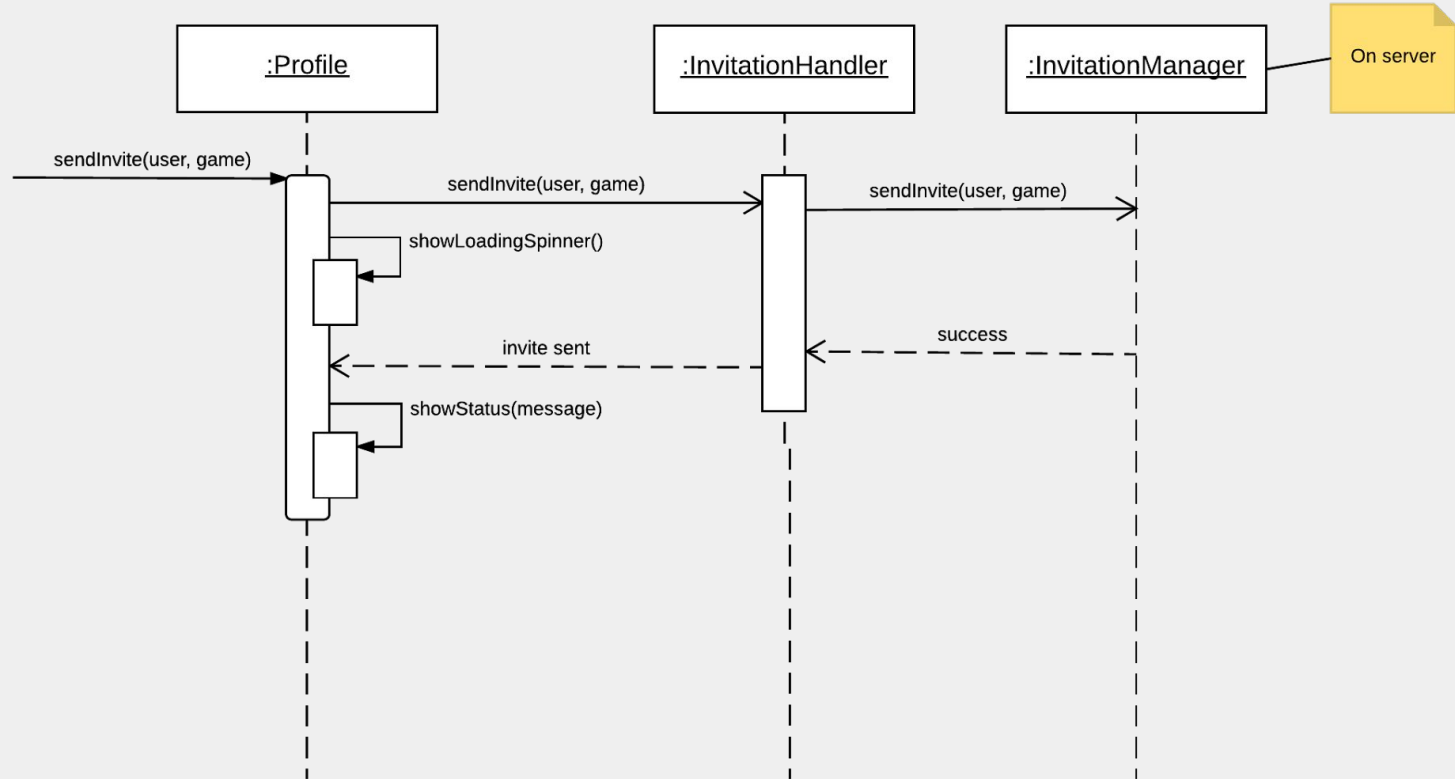
# Login



# Register

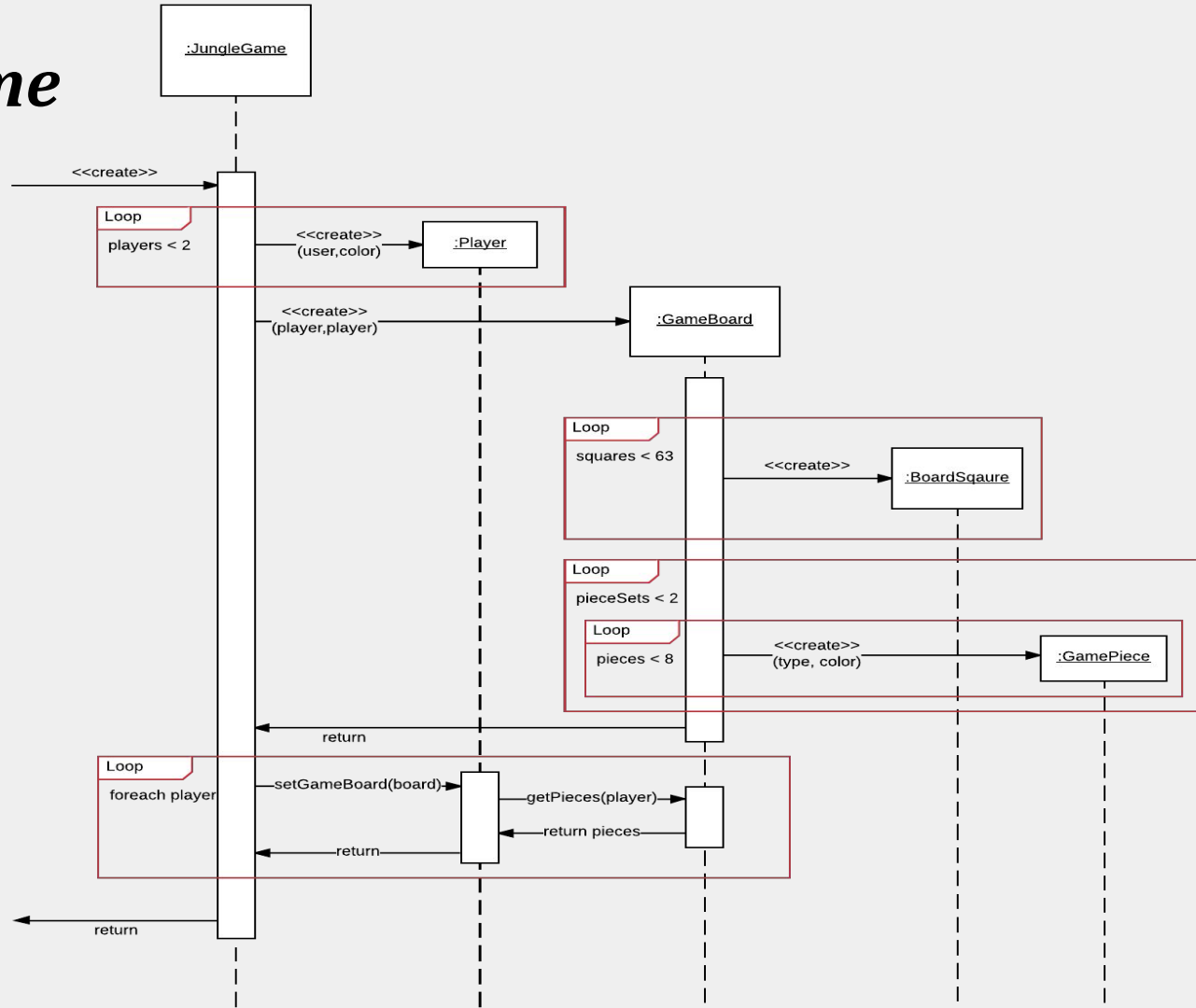


# Game Invite



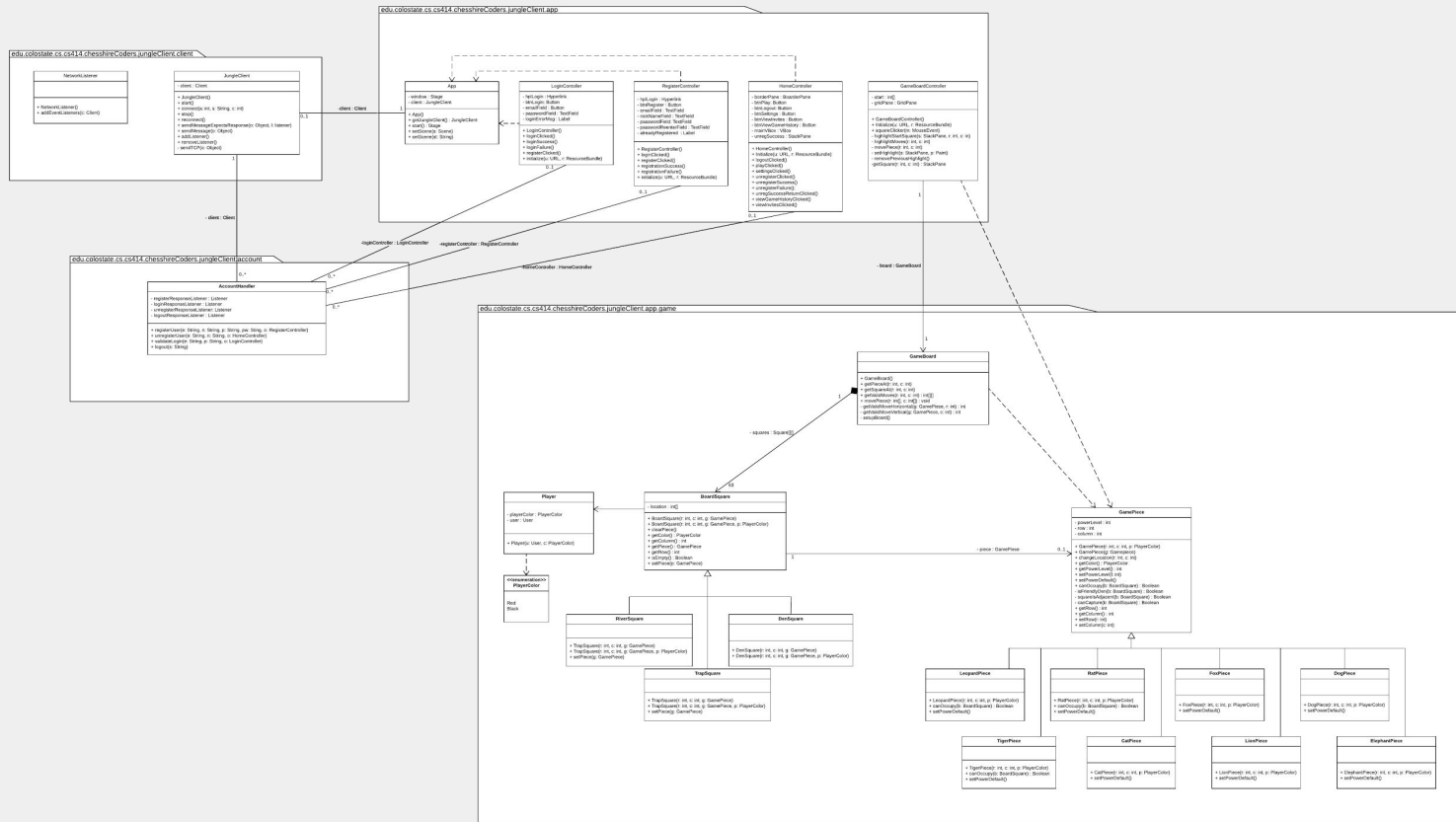


# Create Game



# Class Diagram

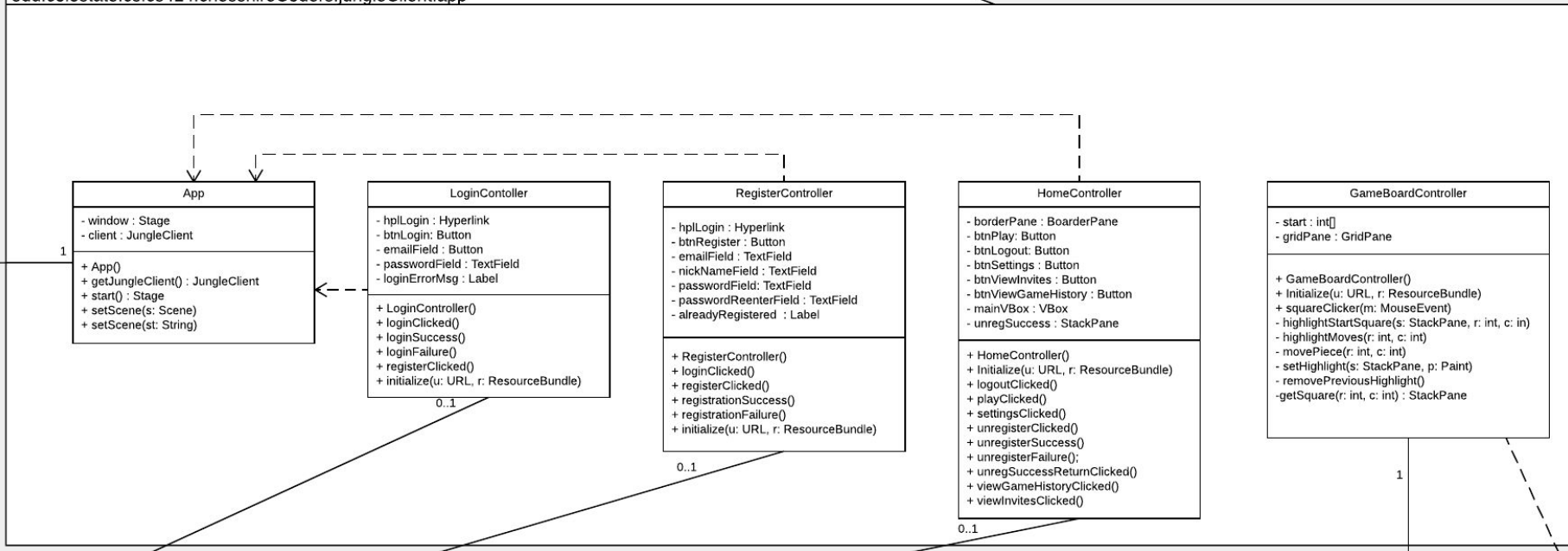
## Client Logic - Overview



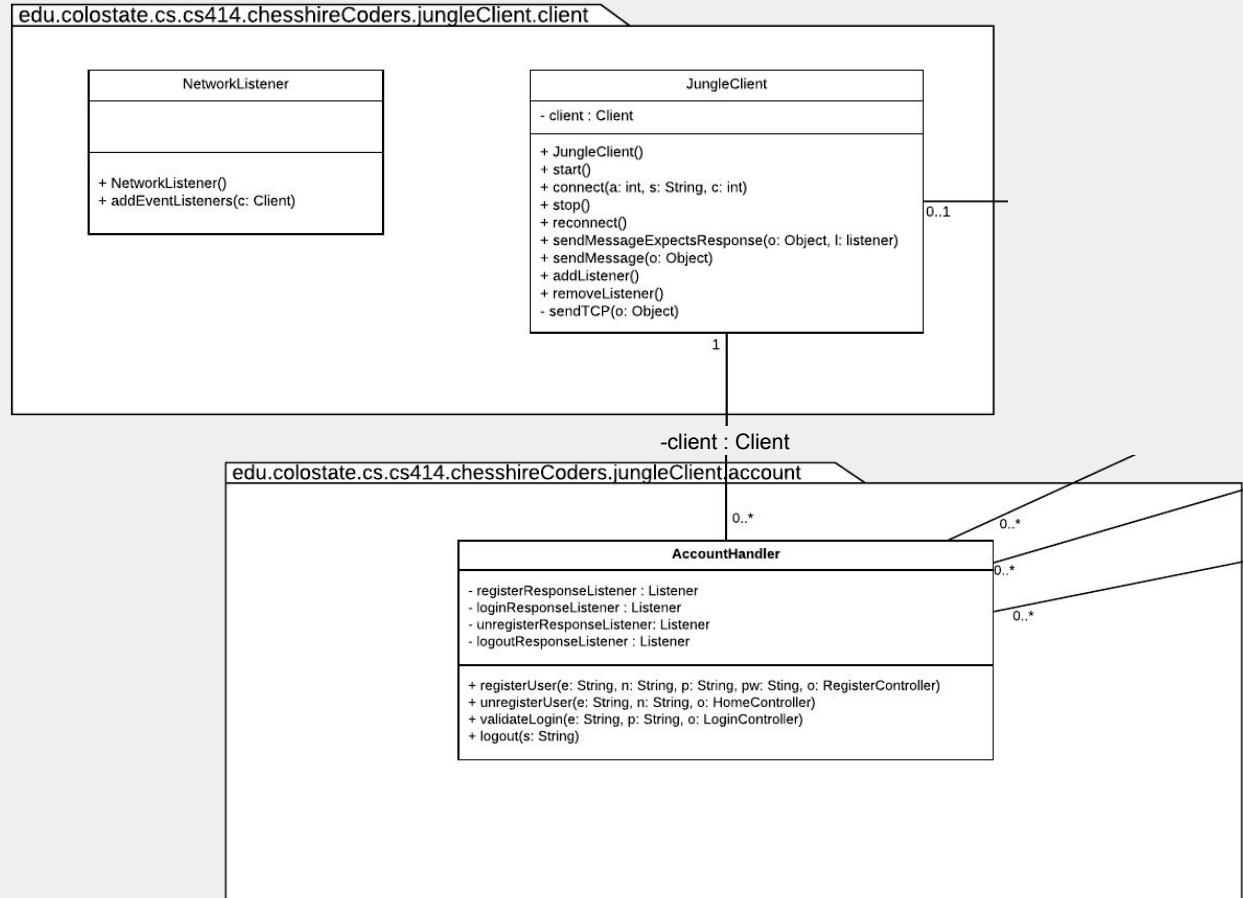
# Class Diagram

## Client Logic

edu.colostate.cs.cs414.cheshireCoders.jungleClient.app



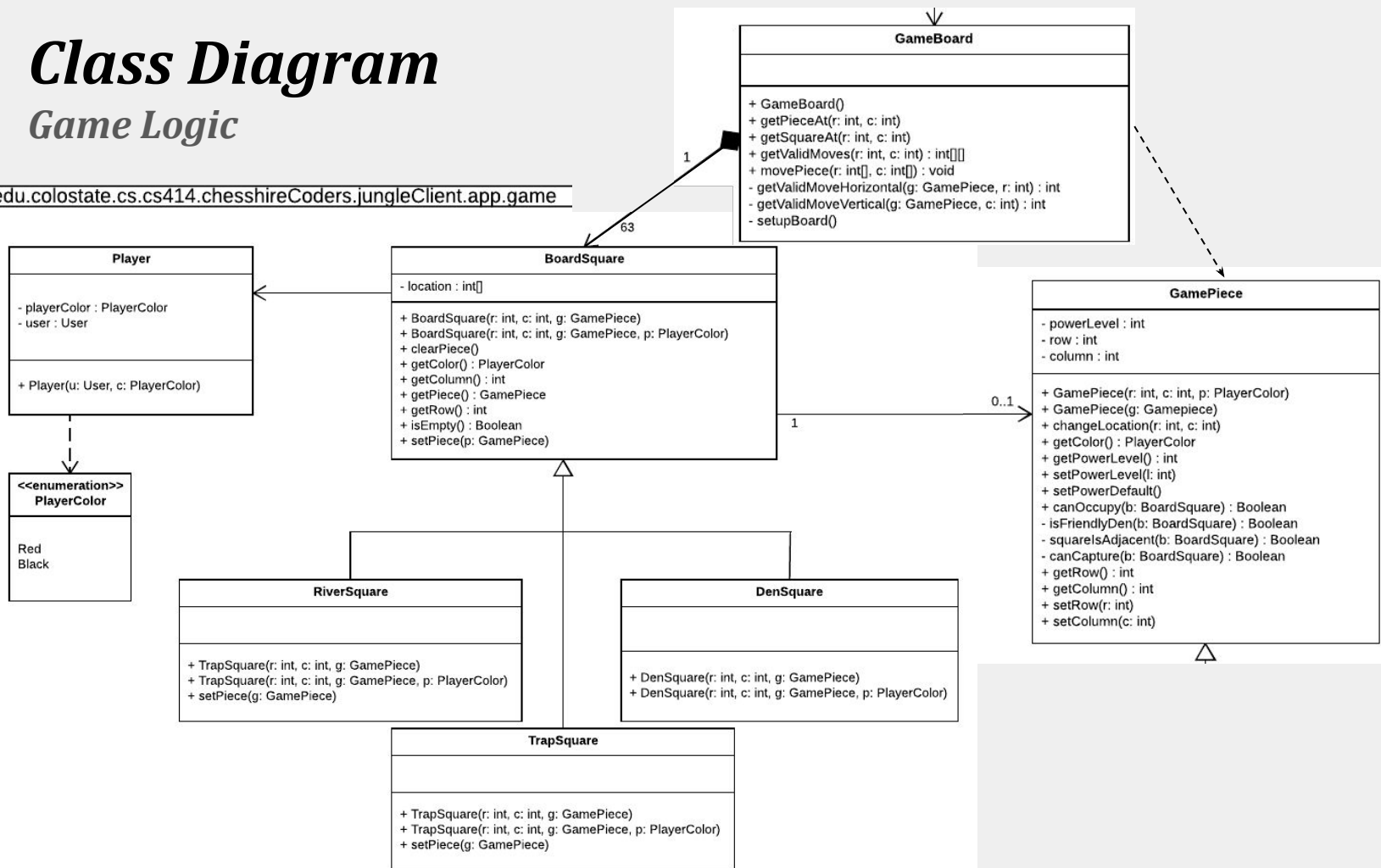
# Class Diagrams - Client cont.



# Class Diagram

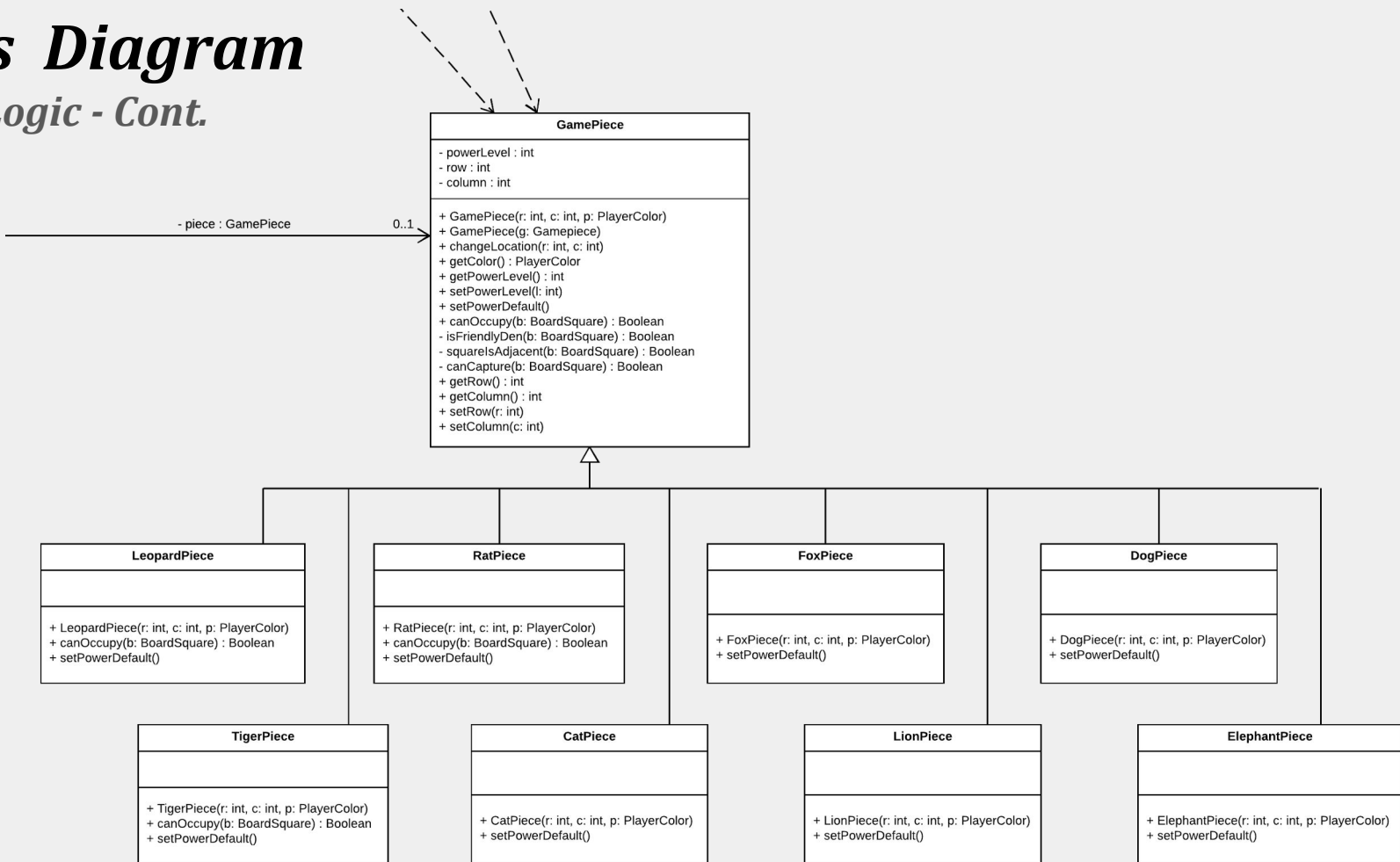
## Game Logic

edu.colostate.cs.cs414.cheshireCoders.jungleClient.app.game

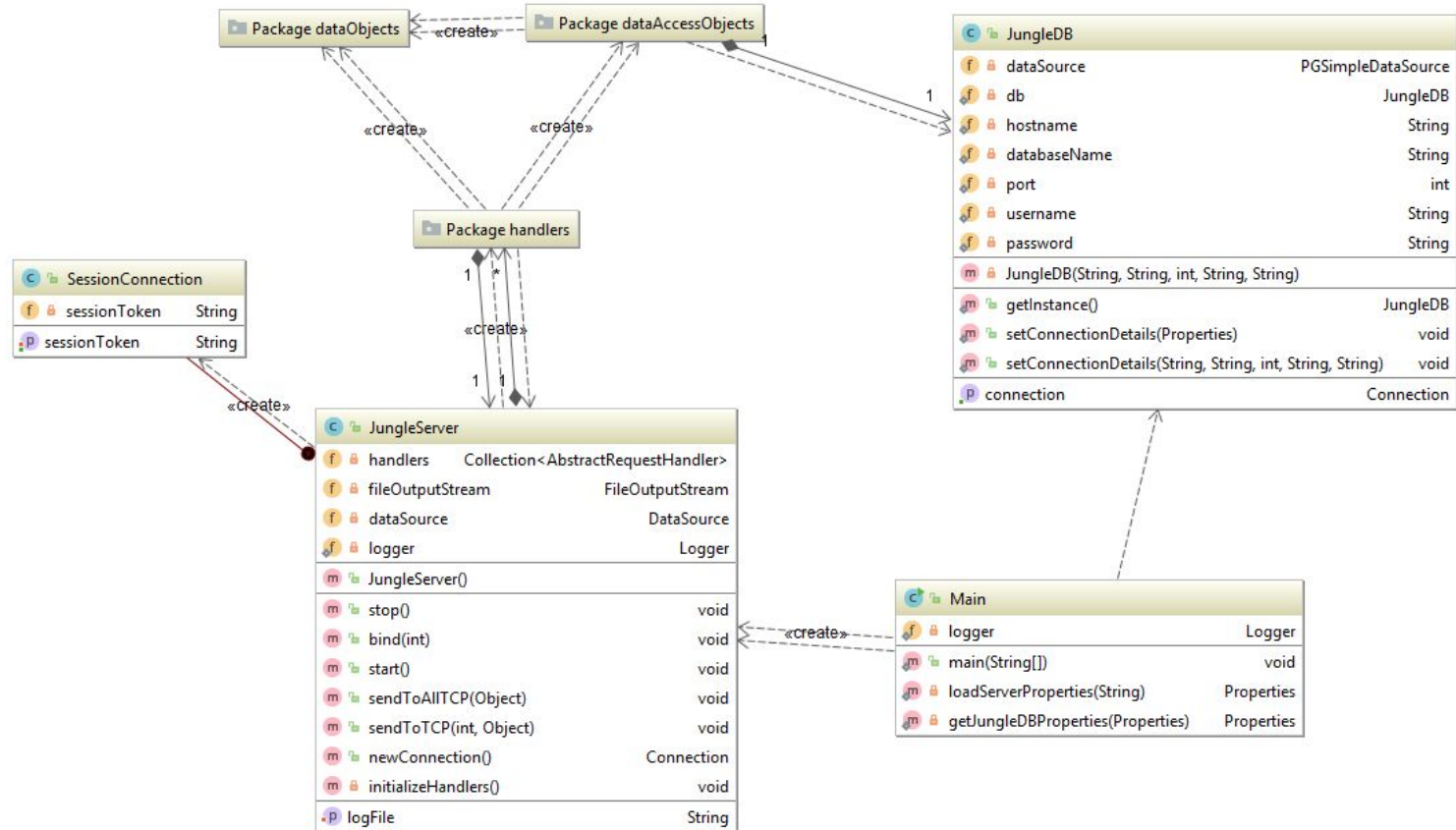


# Class Diagram

## Game Logic - Cont.

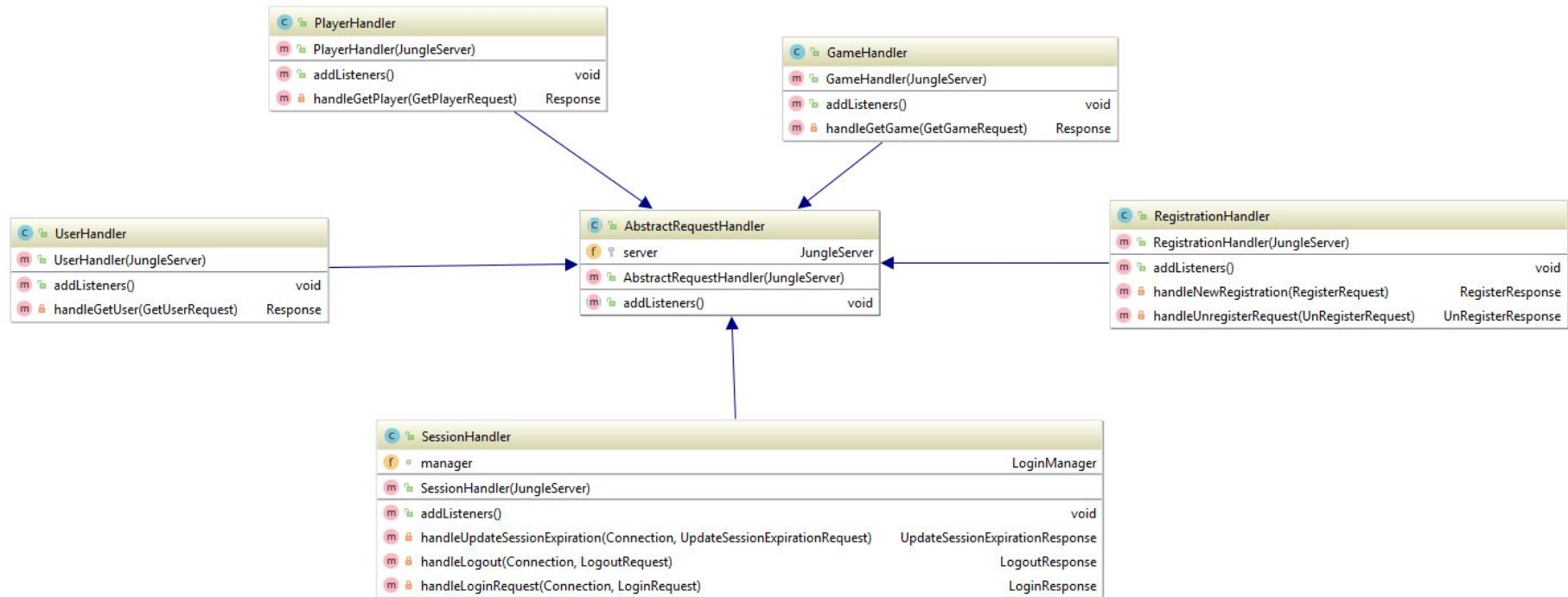


# Class Diagrams - Server



# Class Diagrams - Server cont.

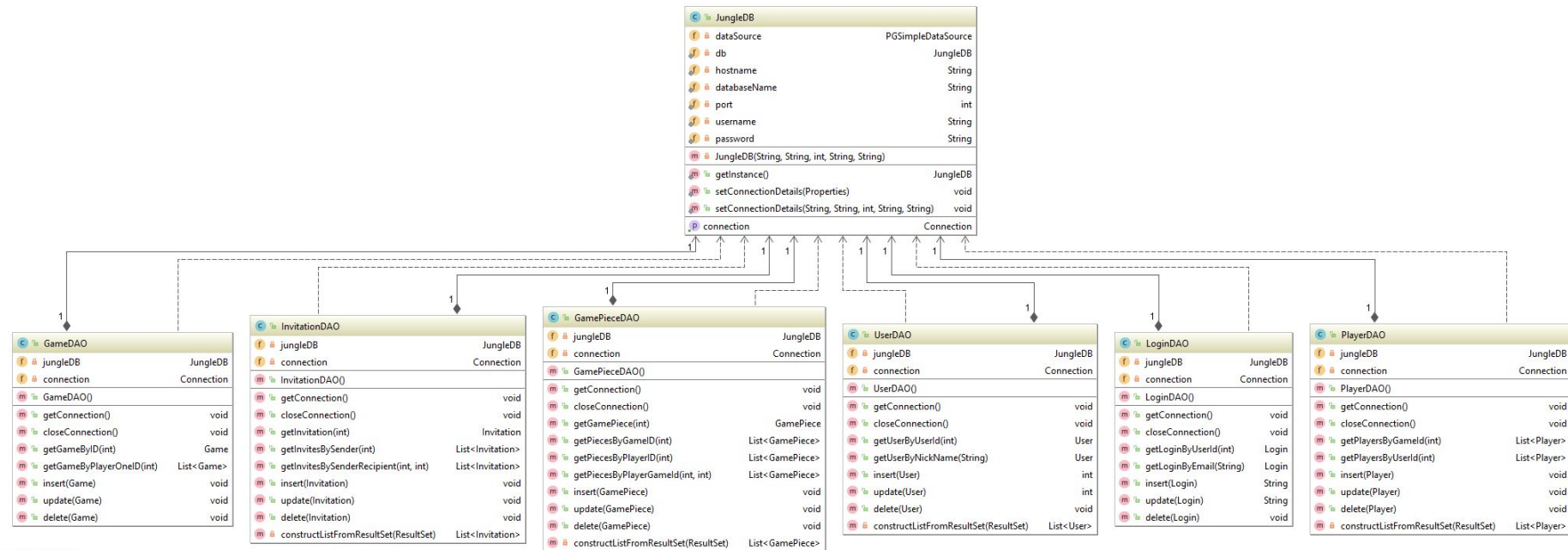
## Handlers





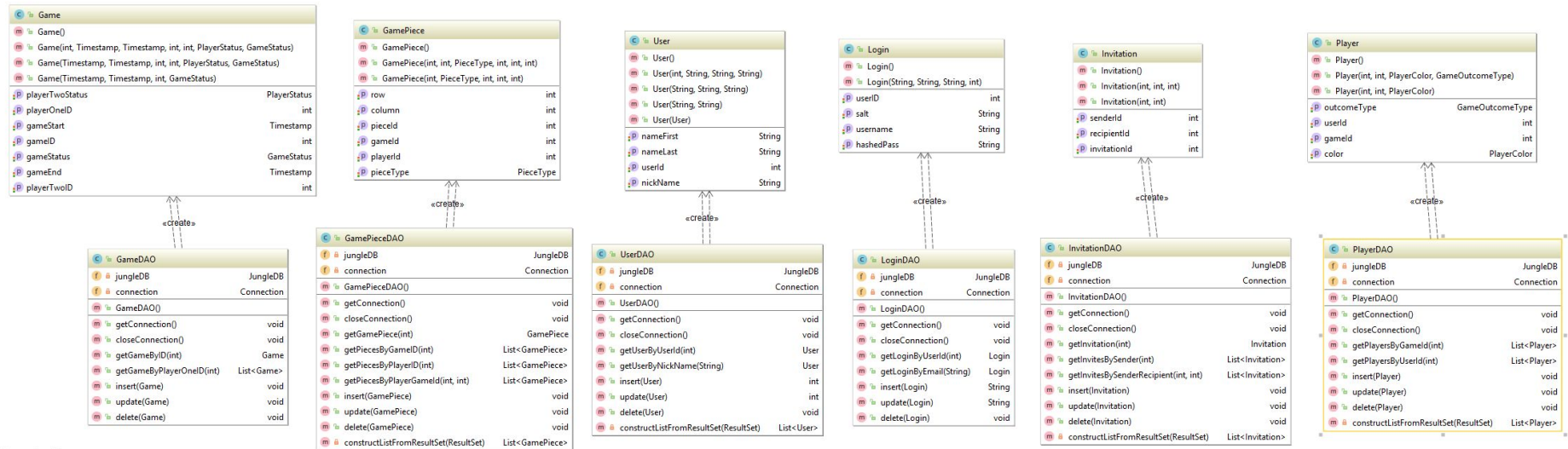
# Class Diagrams - Server cont.

## Data Access Objects



# Class Diagrams - Server cont.

## Data Objects/Data Access Objects



# *Test Case Summary*

- **TestBoardSquare:** 16 tests
- **TestGameBoard:** 15 tests
- **TestAccountHandler:** 6 tests
- **TestBoardSquare:** 6 tests

# ***Project Tools***

## **Development Tools**

- Eclipse
- IntelliJ IDEA
- Gluon Scene Builder
- Maven
- Git & Github
- Lucidchart

## **Libraries & Frameworks**

- JavaFX
- Mockito
- JUnit
- Kryonet

## **Other**

- DigitalOcean Cloud Hosting
- PostgreSQL
- Docker
- Slack
- Waffle.io
- Travis CI

# Traceability Link Matrix

	Game	Game Piece	Invitation	Login	Player	User	Jungle Game	Board Square	Game Board
<a href="#">#1: Register to the system</a>			X	X		X			
<a href="#">#2: Create a new game</a>	X		X	X					X
<a href="#">#3: Invite other users to a game</a>	X		X	X					
<a href="#">#4: Respond to Game Invitation</a>	X		X	X	X				X
<a href="#">#5: Quit Game</a>	X			X	X				X
<a href="#">#6: Unregister from System</a>				X		X			
<a href="#">#7: View Player Profile</a>				X	X				
<a href="#">#8: Log in to System</a>				X		X			
<a href="#">#9: Log out of System</a>				X		X			
<a href="#">#10: Move Game Piece</a>		X		X	X			X	X
<a href="#">#11: Switch Game</a>	X			X	X				X

# Use Case Completion

Use Case	Progress Notes
<a href="#">#1: Register to the system</a>	Most server-side logic in place, validation, redirection to new page
<a href="#">#2: Create a new game</a>	Client and GUI logic completed.
<a href="#">#3: Invite other users to a game</a>	Data objects and network handlers in place.
<a href="#">#4: Respond to Game Invitation</a>	Server configuration ready to handle invite send/receive events
<a href="#">#5: Quit Game</a>	Game logic functional, working on server implementation.
<a href="#">#6: Unregister from System</a>	GUI elements done, some server side logic in place
<a href="#">#7: View Player Profile</a>	
<a href="#">#8: Log in to System</a>	GUI elements done, server logic in place
<a href="#">#9: Log out of System</a>	GUI elements done, server logic in place
<a href="#">#10: Move Game Piece</a>	GUI and client logic done, some server logic in place
<a href="#">#11: Switch Game</a>	Basic logic in place, working on server side information

***Demo***

***Questions  
And  
Discussion***