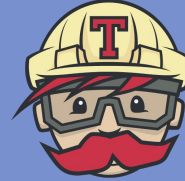


Byte Mechanics



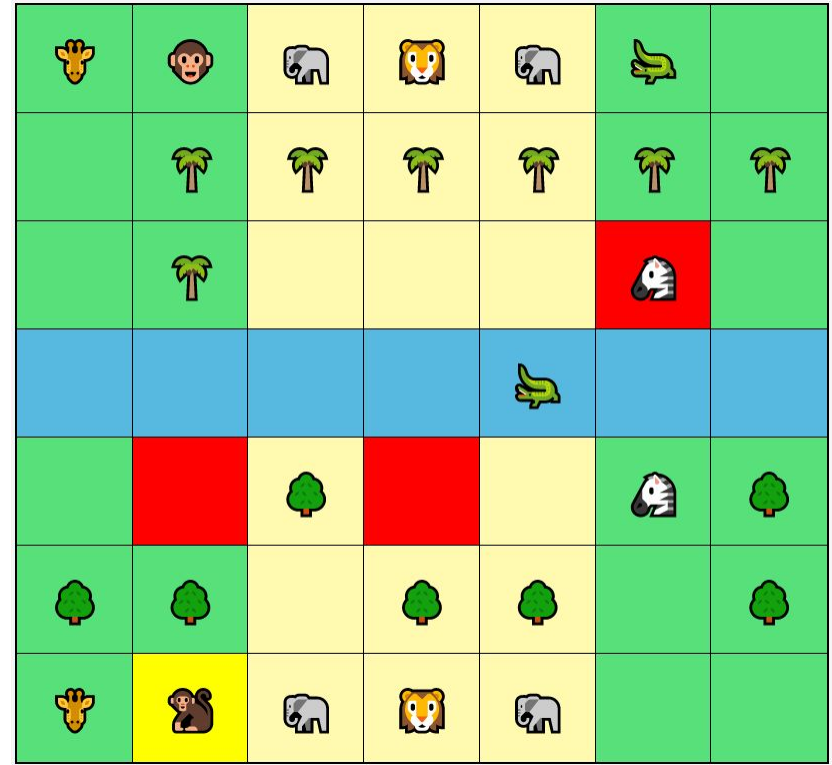
Sprint 2 Presentation

Abby Rictor, Aislinn Jeske (Scrum Master), Farzaneh Elyaderani, Marylou Nash, Zachary Klausner

Congo

High-Priority User Stories (Sprint 2)

- Register an account
- Login/ logout from an account
- Invite a User(s) to Play Game
- Perform a Move on Current Game
 - Retrieve existing game from database
 - Update board after performing valid move
- Create a New Game (In progress)
 - Store game and player info in database
- Accept an Invitation (In progress)



User Stories

High Priority Stories and Tasks (Must have)

User can register/create an account

- User enters an email, username, and password
- Check if username and email are unique
- A profile will be created for user
- User info added/stored in the database

User can login/logout to profile

- User log into profile and see information (opponent, start/end times, state) of current, finished, and abandoned games
- User can see other player's profile
- user can log out from an account anytime

User can create a new match

- User choose a partner to play by sending invitation
- If invitation is accepted, a new match is created
- Game starts with having at least 2 players

User can invite a friend to play

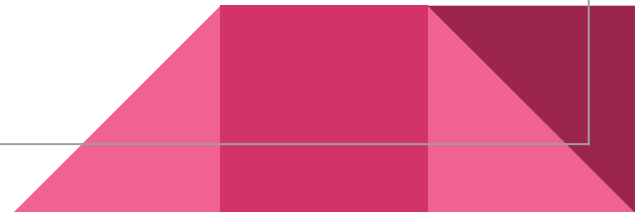
- User can invite a friend to play a game
- User sends email/ notification for invitation

User can accept the game invitation

- User accept the invitation by clicking the accept button
- User logs into their profile to view newly started game

User can make a move on current game

- User can make a valid move on his ongoing game



CRC Cards

Game	
Responsibilities	Collaborators
<ul style="list-style-type: none">Create new game sessionLoad game session from database	GameBoard DatabaseHandler

GameBoard	
Responsibilities	Collaborators
<ul style="list-style-type: none">Setup new board and place piecesMove a pieceDetermine if a piece has drowned	Lion Monkey Giraffe Crocodile Pawn Zebra Elephant GamePiece

Query	
Responsibilities	Collaborators
<ul style="list-style-type: none">Create queries to add, update, and get information from the database	

GamePiece	
Responsibilities	Collaborators
<ul style="list-style-type: none">Determine if piece is in riverValidate that a move is legalDetermine if path is clear for a piece to moveHelper methods for valid moves	Lion Monkey Giraffe Crocodile Pawn Zebra Elephant GameBoard

DatabaseHandler	
Responsibilities	Collaborators
<ul style="list-style-type: none">Register user and store info in databaseCheck username and password in database so user can log inUnregister user and remove info from databaseAdd new game to databaseGet game from databaseSave game changes to database	Action Query

Crocodile	
Responsibilities	Collaborators
<ul style="list-style-type: none"> Validate legality of a move made by a crocodile piece based on the current state of the board 	

Elephant	
Responsibilities	Collaborators
<ul style="list-style-type: none"> Validate legality of a move made by an elephant piece based on the current state of the board 	

Giraffe	
Responsibilities	Collaborators
<ul style="list-style-type: none"> Validate legality of a move made by a giraffe piece based on the current state of the board 	

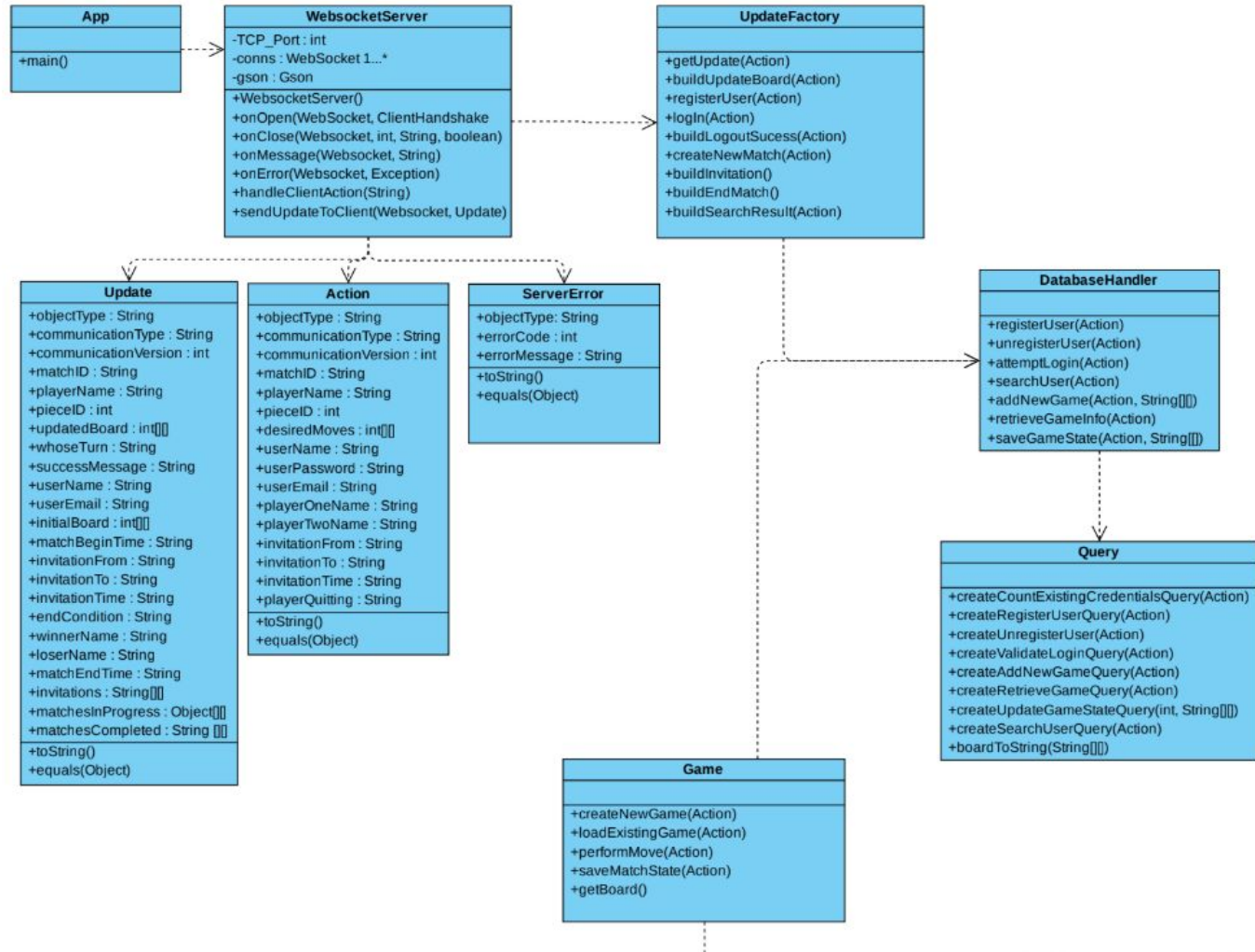
Zebra	
Responsibilities	Collaborators
<ul style="list-style-type: none"> Validate legality of a move made by a zebra piece based on the current state of the board 	

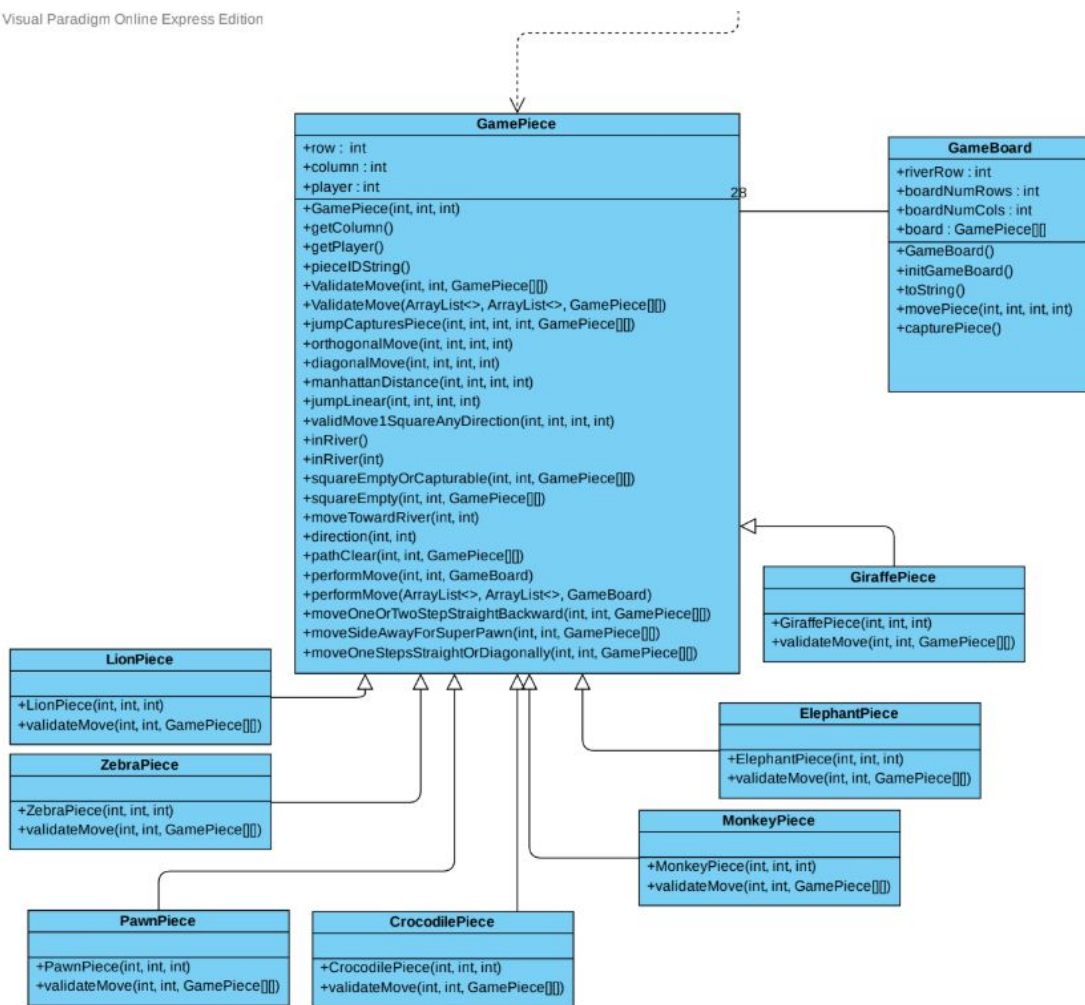
Lion	
Responsibilities	Collaborators
<ul style="list-style-type: none"> Validate legality of a move made by a lion piece based on the current state of the board 	

Monkey	
Responsibilities	Collaborators
<ul style="list-style-type: none"> Validate legality of a move made by a monkey piece based on the current state of the board 	

Pawn	
Responsibilities	Collaborators
<ul style="list-style-type: none"> Validate legality of a move made by a pawn based on the current state of the board 	

Class Diagram





Traceability Link Matrix

A	V	W	X	Y	Z	AA	AB
	/pom.xml	Client-ServerCommFormats.md	DatabaseHandler.java	Query.java	Update.java	Action.java	UpdateFactory.java
User Story #28: User Accepts Game Invitation							
User Story #29: User Rejects Game Invitation							
User Story #30: User Abandons Game							
User Story #31: User Makes Move on Current Game							
User Story #32: User Unregisters Account							
User Story #44: Implement Drowning							
User Story #45: Implement Game Board UI							
User Story #60: User Views Games			X	X			
User Story #61: User Searches Games			X	X			
User Story #69: Create and Organize a Tournament			X				
User Story #70: Distribute Awards for Tournament Results			X				
User Story #71: Users can Message Other Users							
User Story #72: Users can Play Against an AI Opponent					X		X
User Story #73: Keep Track of Player's Ranking and Badges			X				
User Story #74: User Can Play Multiple Games at Same Time							
User Story #75: Keep Track of Player's Game History			X	X			
User Story #76: User Can Log into their Account							
User Story #77: User Can View All Pending Invitations				X			X
User Story #78: User Can Select a Game to Play			X	X	X		X
User Story #79: User Can Close (& Save) Game & Select AI Opponent			X	X	X		X
User Story #80: User Can Log Out of their Account							
User Story #81: User Can View & Search Profile of other Players			X	X			X

Kanban Board

1 Sprint Backlog

1

User can select a game to play

#78 opened by zachklau

Story

8 In progress

1

User Rejects a Game Invitation

#29 opened by aislinnjeske

Story

1

User Accepts a Game Invitation

#28 opened by aislinnjeske

Story

1

User can view all pending invitations

#77 opened by zachklau

Story

1

Add ability to view pending game invitations

#133 opened by zachklau

Task

1

User Starts a New Game

#27 opened by aislinnjeske

Story

1

User can log into their account

#76 opened by zachklau

Story

1 Review in progress

1

Users can view and search the profiles of other users

#81 opened by zachklau

Story

39 Done

1

Add ability to invite a user to a game after finding them in the database

#132 opened by zachklau

Task

1

Save Game Info in DB

#91 opened by aislinnjeske

Task

1

User Makes a Move on a Current Game

#31 opened by aislinnjeske

Story

1

Handle Updated Board response for valid move from server to client

#118 opened by farikdk

Task

1

Add search box to Invitations page for searching users to invite.

#124 opened by zachklau

Task

1

Add Invitations page to client

Automated as In progress

Manage

Automated as Done

Review and Retrospective

- What work did we commit to being delivered?

- Storing a game in database
- Search for players to invite, Send game invitations, Accept/Decline Invitations, View invitations
- Making a move on the board
- User login/logout, User registration, User unregisters

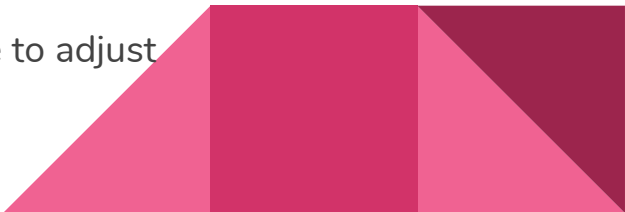
- What work did we complete?

- Storing a game in database
- Searching for players to invite, Sending game invitations
- Making a move on the board
- User login/logout, User registration

- What did we do well?

- Refactoring, working on other parts of the code base, communication, changing implementation according to design needs, flexibility, understanding full project stack

- What should be focus more on to improve?

- Tackle bigger more extensive changes early in sprint to allow time to adjust
 - Smaller and incremental changes, merging earlier and more often
 - Anticipating structural needs for future features
- 



Questions/Demo