CS414 - P2 Presentation

Team 'We Them Boys' - Legan Chess



Alex Guentchev

Lance McMullin

Westin Musser

Jesse Schmidt

Joseph Tonski

The XGame



- Legan Chess
- Invented by L. Legan in 1913.
- Pieces start in the corners, as illustrated
- Pawn movement changes
- No castling, and no en passant

Development Progress: Login & Registration







Email Address

- Password

newUser@email.com

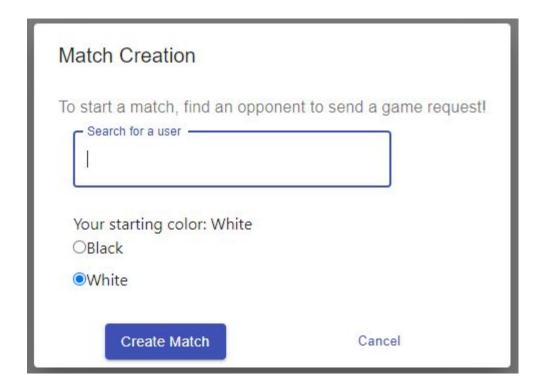
Sign Up

Already have an account? Log In

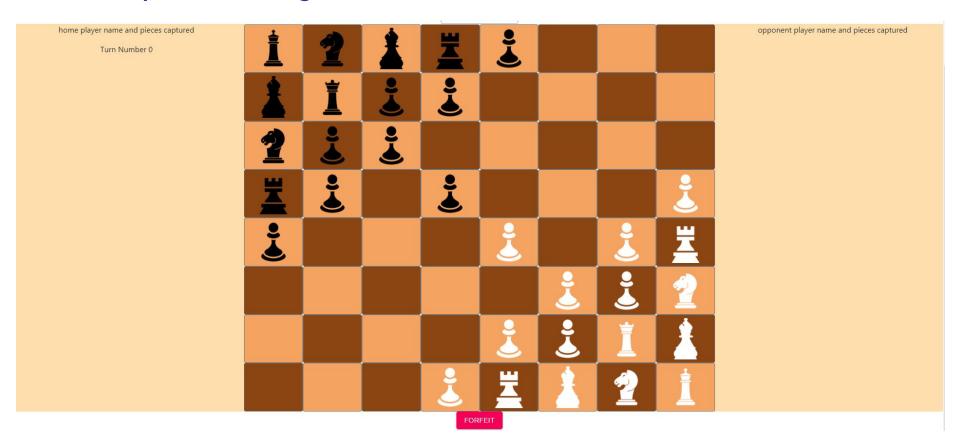


Already have an account? Log In

Development Progress: Match creation



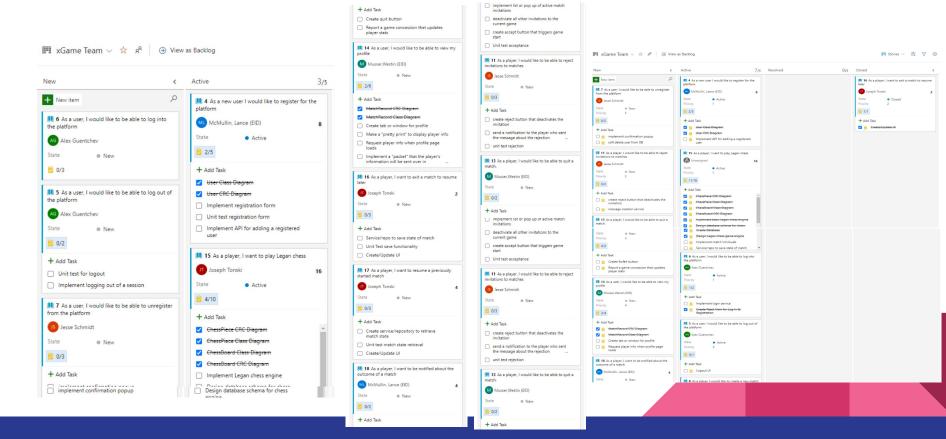
Development Progress: Match UI



User Stories and Tasks

ID	Work Item Type	Title	Assigned To	State	Priority
4	User Story	As a new user I would like to register for the platform	McMullin, Lance (EID) <lancemc@colostate.edu></lancemc@colostate.edu>	Active	1
5	User Story	As a user, I would like to be able to log out of the platform	Alex Guentchev <agenchev@colostate.edu></agenchev@colostate.edu>	Active	2
6	User Story	As a user, I would like to be able to log into the platform	Alex Guentchev <agenchev@colostate.edu></agenchev@colostate.edu>	Active	1
7	User Story	As a user, I would like to be able to unregister from the platform	Jesse Schmidt <jessejs@colostate.edu></jessejs@colostate.edu>	Active	3
8	User Story	As a player, I would like to create a new match	Joseph Tonski <jojojr@colostate.edu></jojojr@colostate.edu>	Active	1
10	User Story	As a player, I would like to be able to accept invitations to matches	Joseph Tonski <jojojr@colostate.edu></jojojr@colostate.edu>	Active	1
11	User Story	As a player, I would like to be able to reject invitations to matches	Jesse Schmidt <jessejs@colostate.edu></jessejs@colostate.edu>	Active	3
13	User Story	As a player, I would like to be able to quit a match.	Musser, Westin (EID) < wstnmssr@colostate.edu>	Active	3
14	User Story	As a user, I would like to be able to view my profile	Musser, Westin (EID) < wstnmssr@colostate.edu>	New	4
15	User Story	As a player, I want to play Legan chess		Active	1
16	User Story	As a player, I want to exit a match to resume later	Joseph Tonski <jojojr@colostate.edu></jojojr@colostate.edu>	Closed	2
17	User Story	As a player, I want to resume a previously started match	Jesse Schmidt <jessejs@colostate.edu></jessejs@colostate.edu>	Active	2
18	User Story	As a player, I want to be notified about the outcome of a match	McMullin, Lance (EID) <lancemc@colostate.edu></lancemc@colostate.edu>	Active	4

Development Progress: Kanban Boards



Design Artifacts: CRC Cards

UserService	
Responsiblities	Collaborators
-Create new user	-UserRepository
-Deactivate user	-UserCredentials
-Get user profile	

MessageService		
Responsibilities	Collaborators	
-Send new message	-MessageRepository	
-Read messages	38.0 19.0	

ChessMatchService			
Responsibilities	Collaborators		
-Create match	-ChessMatchRepositor		
-Get match			
-Update match			

UserCredentials		
Responsibilities -Stores user credentials	Collaborators	

UserRe	epository
Responsibilities -CRUD operations on	Collaborators
User entities	

Message	Repository
Responsibilities -CRUD operations on Message entities	Collaborators

tchRepoitory
Collaborators

User	
Responsibilities	Collaborators
-DAO for User table	

Message	
Responsibilities -DAO for Message	Collaborators
DAO for Message able	

ChessMatch		
Responsibilities	Collaborators	
-DAO for Match table		

ChessPiece {Abstract}		
Responsibilities	Collaborators	
-Template for each game piece	-King	
-Declare methods for Pieces to define	-Queen	
	-Knight	
	-Rook	
	-Bishop	
	-Pawn	

King		
Responsibility	Collaborators	
- Implement abstract Piece methods for King	ChessPlece	

Queen		
Responsibility	Collaborators	
- Implement abstract Piece methods for Queen	ChessPlece	

Knight		
Responsibility	Collaborators	
- Implement abstract Piece methods for Knight	ChessPlece	

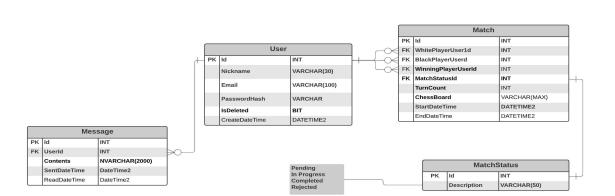
R	ook	
Responsibility	Collaborators	
- Implement abstract Piece methods for Rook	ChessPlece	

Bishop				
Responsibility	Collaborators			
- Implement abstract Piece methods for Bishop	ChessPlece			

Pawn		
Responsibility	Collaborators	
- Implement abstract Piece methods for Pawn	ChessPlece	

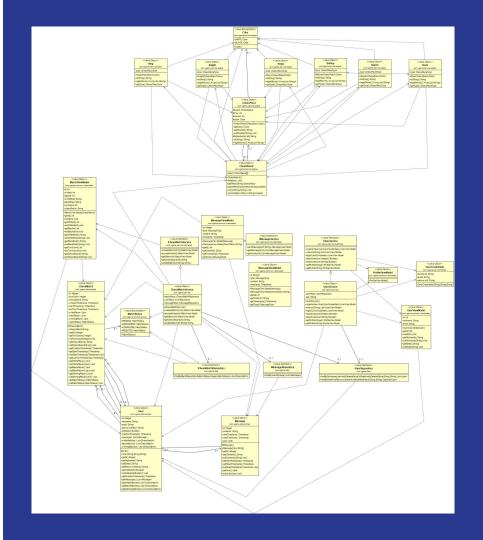
Chess	Board	
Responsibilities	Collaborators	
-References to all pieces and their relative positions on board	-ChessPiece	

Design Artifacts: Database Diagram



xGame Database Diagram

Design Artifacts: UML Class Diagram



Development Guide

- Architecture
- RestAPI
 - Endpoints for User, Match, Message
- Environment
 - IntelliJ, Node.JS, NPM
- Server
 - Eclipse, Spring, MariaDB

Team We Them Boys' xGame Development Guide

Traceability Link Matrix

Component (Java class)->	MatchStatus	MessageType	IMessageRepository	MessageViewModel	ProfileViewModel	UserViewModel	IChessMatchRepository	I
Requirement ↓								
Register						X		
Log out						X		
Log in						X		
Create new match	X	X	X	X			X	
Invite to match	X	X	X	X			X	
Accept match invitation	X	X	X	X			X	
Exit a match to resume later	X						X	
Resume a match	X						X	

Sprint 1 Review (10-12-20)

- This sprint saw a lot of design and initial skeleton work done, but the kanban board did not represent this. More tasks should be made for each piece of work being done, and the board should be kept current.
- Moving forward, more tasks that are specific to the work being done. Importantly, continue to carry over tasks from user stories without getting lost in development. Continue linking PRs to tasks in DevOps to maintain concurrency.
- Moving forward, be more careful not to duplicate tasks. Consider existing tasks during discussions
 of making new ones.

Sprint 1 Retrospective (10-12-20)

- We discussed the front end design well. How it looks will reflect what we want, thanks to effectively communicating goals and ideas.
- We should update teammates more on progress and where we are with each task
- To improve here, we will be more consistent with sending daily updates (even if we don't have a significant update)

Sprint 2 Review (10-26-20)

- We underestimated the complexity of the chess engine. This was resolved by splitting up the rest of the engine features into multiple tasks.
- We also underestimated a handful of other tasks. This was resolved by adjusting time estimates, moving people to whatever tasks are open, and moving some tasks to the next sprint. This adjustment was expected after the first couple of sprints.
- Pull requests taking too long to get reviewed by three people and then merged. This was resolved by requiring one fewer approval.

Sprint 2 Retrospective (10-26-20)

- What went well
 - Good team interactions & assistance when people ran into issues
 - Good & consistent communication
 - Good communication between people working on different parts of the application
 - Team members are following the scrum expectations well (join the live scrums when you can, written update when you cannot)
 - Got a majority of the baseline functionality done
- What could be improved
 - Pull requests took to long to get reviewed, merged
- What we will commit to improve in the next sprint
 - Shift expectation to look at pull requests within 2 days, in addition to requiring only 2 reviews