

ReadySet Go Team Meetings

9/16

Meeting with client (Dr. Ma)

- Discussed various features for the AlphaGo project
 - Certificates for https
 - User registration
 - Should have a profile with statistics such as their winrate, # of games played, etc
 - User can play against another player or choose an AI agent to play against
 - Different stats for both?
 - Researchers
 - Can train AI with different parameters
 - Params can be variable
 - Should deliver results (specifics needed) to user smoothly
 - Create UI for AI training
 - NOTE: most scripts and AI are already built, we do not have to create them, mostly implement an online version for the system already in place
- Other misc notes on project
 - We will have access to a Ubuntu web server, can install Tomcat or others onto it
 - We can determine what database to use
 - LeelaZero- engine to run Go games
 - We need a middleman program to allow Go engines to communicate

Team Meeting

- Discussed Team Roles
 - Kien- Team Lead- will be main point of contact with client
 - Ryan M- Documents/Planning manager- will keep track of group documents and scheduling
 - Derek- Backend Leader
 - Christian- Frontend Leader
 - Ryan C- Database Leader
 - NOTE: all team members will work on all aspects of project, but leaders will have more control as to how/what is implemented in their area
- Discussed Team Name
 - ReadySet Go
- Discussed programs to use in development

- Jira
 - Organizational workflow software for keeping track of tasks/features to implement
- GymGo
 - Good for running Go games on web
 - Python based
- Frontend Go Board
 - Considered using JS for this?
- Python stack
 - Will likely be main language for development
 - Flask or Django (yet to decide)
- GitHub
 - Members will join a group archive to work off of
- Sabaki
 - Open-source middleman program for Go
 - The team could refer to its code base for GTP handling
- Next meeting
 - Discuss more specific requirements with client
 - Make decision on python stack to use
 - (Opt) set up Jira
 - Begin allocating tasks for development
 - Begin work on planning documents
 - Vision Doc
 - Weekly activity report?
 - Use Cases

9/23

Contacted client for meeting, no response

Team meeting

- Worked through Vision Document
 - Delegated each team member to work on one section, but communicating with each other.
- Deployment decisions
 - Decided to use Spring instead of Python stack
 - Decided to use MongoDB for database
- Next meeting (Fri 9/25 @2PM)
 - Walk through similar offline programs to get an idea for how gameplay will be handled
 - Hopefully meet with Dr. Ma to get more requirements
 - Discuss Sabaki, program for handling specifically online Go games

9/25

Team meeting

- Went over vision doc to ensure all segments are correct
- Discussed setting up website- Ryan M.
- Questions to ask client
 - Limit on maximum number of users
 - Mobile deployment options
- Will discuss with client outside of meeting
- Next meeting
 - Discuss first features to implement on project (likely login)
 - Review client requirements, update documents if necessary
 - Begin work on use cases

9/30

Team meeting

- Todo
 - Set up use case doc (Ryan M)
 - Fill in use cases (ALL)
 - Set up WAR doc (begin filling in starting next week) (Ryan M)
 - Update team website (Ryan M)
- Went over Sabaki GO engine.
 - Middle man for all GO engines
 - Can designate 2 agents
- Go Text Protocol
- List of Use cases
 - Make account- Christian
 - Login- Christian
 - Players
 - Edit profile- Derek
 - Delete Profile- Derek
 - View Stats- Ryan M
 - View game files- Ryan M
 - Delete Saved Game- Ryan C
 - Play game- Ryan M
 - Extension- Saving game file
 - Researchers
 - Can do all actions of a player, plus...
 - Set parameters/train AI agent- Ryan C
 - Extension- create new agent to train
 - Publish trained AI agent to become playable- Kien

- View training metrics/results (ELO rating, graphs)- Kien

Client Meeting- Requirements

- User profiles
 - Name
 - Username
 - Email
 - # of games played
 - winrate
 - Able to save game replays
 - Possibly save last 10 by default, option to save additional
 - Can update/delete their own profile
- Playing mode
 - Set parameters, choose AI agent
 - During game, AI can give hints
 - Designate teacher AI
- Researchers
 - (PENDING) Update the different AI for training
 - Set parameters and train AI agent
 - Can also start from base agent (no previous training)
 - Board size, # of games, etc
 - Results
 - Generation of AI
 - # of games played
 - Should also alert user to progress of training
 - Graphical representation of critical stats vs generation
 - Search for games with specific move patterns
 - Automatically save games
 - Researcher should be able to view specific games
 - (PENDING) Researcher can publish agent/games to GitHub
- (OPTIONAL)
 - Play vs other people (much more complicated system)
 - Only look into this feature once other system is up and running
- Prioritize player features over researchers

10/7

Team Meeting

- Database progress
 - Mongo Atlas
 - Working framework schema
 - Packages for connecting to Java server

- Frontend Progress
 - UI for Go game
 - React framework
- Prototype
 - Balsamiq
 - Different pages
 - Splash page (Choose to login or sign up)- Ryan C
 - Registration page- Ryan C
 - Login Page- Done
 - Home Page- Christian
 - Profile Page- Ryan M
 - Play setup page- Ryan M
 - Play window- Derek
 - Research page- Kien
- After Prototyping
 - Get user login functional
 - Work on Go board UI

10/14

- Team meeting
 - Documents to complete for next week
 - Software development plan
 - Development Plan Doc
 - Iteration 1
 - Focusing on login and user management
 - Login
 - Registration
 - Add/Delete user
 - Game/Match history
 - Use mock database for presentation
 - Research (all done on backend)
 - Iteration 2
 - Implement game playing
 - Interface and player experience
 - Login
 - Password hash function- Derek + Ryan C.
 - Registration

10/21

Team Meeting

- Accomplished so far
 - Registration functional
 - Login in progress
- Goals for this week
 - Frontend design for login, registration pages- RM, CA
 - Want to give it a more Chinese aesthetic
 - Meet on Friday
 - Database for registration
 - Presentation slides- RM

10/28

Client Meeting

- Prototype notes
 - Meet the team on splash page
 - Info about Go
 - Info about research project
 - Background image on splash page (ratio)
 - Only researchers can train
 - Profile page
 - Separate profile (user info) and game info
 - Play page
 - Allow user AI to get hints
 - Allow user to toggle teaching mode, which will enable the hint button
 - Undo button?

Team Meeting

- Went over setting up project environment on each member's computer locally
- Questions to ask
 - Microservices
 - Encrypting client requests
 - Sending html from front to backend
- Next big task
 - Profile

10/31

Team meeting

- Discussion on connecting frontend to backend
 - JSP- frontend template for springboot

- Thymeleaf
- Vue-for gameplaying
- SPA

11/4

Client Meeting

- Progress Check
- Proposed idea for Latex documentation
- Email authentication
 - **Will need mail server for sending verification emails**
- Proposed idea for phone number authentication and login
 - Automatic profile/data deletion after extended period(6 mo?)

Team Meeting

- Likely will not have research operational before iteration 1 presentation
 - Can still create UI and API request
- Plan on merging together all we currently have for iteration 1 on Saturday
- Should ask Dr. Ma how roles are assigned.

11/7

Team Meeting

- Presentation next Friday (or Monday after)
 - Ryan M and Kien heading up presentation
 - Will have a functional login, user profiles, and UI for research
 - Need mock data
 - Research will not be fully functional
- UI for profile, stats, and research will be sent to Christian from Ryan M
- Derek's pull request accepted,
 - Kien and Ryan C will implement end points for get profile and increment wins/losses

11/11

Client Meeting

- Went over implemented features
 - Authenticated sign in, email verification, protected pages, research UI
- Iteration 1 features not implemented yet
 - Research commands
 - edit/delete profile
 - Save/delete game
- Go game interface discussion

Team Meeting

- Go over completed features for presentation

11/18

Semester Wrap-Up meeting

- Client overall satisfied with iteration 1
- TCU server and domain acquired, can begin to deploy features
 - May need another server for decoupled front/backend
 - AWS, heroku for hosting frontend
- May bring on supplemental team member, proficient in game playing features
 - Khiem Nguyen
- Plan for winter break
 - Finish up features from iteration 1
 - Research game playing source code

12/8

Winter Iteration

Client Meeting

- Web server is up and running at ai.tcu.edu
- Just have to put a working build up
- Mock Go game file created
- Frontend training and delete account created, need to connect to backend
- Training code is being optimized

12/11

Team Meeting

- GPU Server will be set up soon
- Need separate servers for research and gameplay

12/15

Team Meeting

- Refactored training code for web application
- Setup on live server in progress
- Plan to finish up iteration this week

12/18

Team meeting

- New Go framework found, WGo
 - Easy implementation, should work with the rest of the project
- Backend research training framework shown

12/22

Client Meeting

- Client enabled port forwarding
 - Need to debug
- Recaptcha needs to be implemented on live server

1/5

Client Meeting- New Year

- Problems with running the monolithic server
- Progress
 - Working on static pages for home (about, how to play)
 - Research can now ssh into commands, save new copy of AI agent

1/8

Team Meeting- Iteration 3 Planning

- Need frontend code for research
- Need frontend + UI for setting up gameplay
 - Automatically save games, redirect to profile page after game ends
- Gameplay implementation- may need parallel sockets
 - Can try to host the game board on frontend via React

1/11

First meeting with Dr. Krishna/Dr. Wei

- Greetings, check in on break progress
- Spoke about live server issues
 - If issues persist, AWS may be an option
 - Discuss with client about preferences and restrictions
- Should Update Release plan & WAR, discuss with client at next meeting

1/22

Meeting with Dr. Krishna

- Set up scheduled meetings for the semester

- Wednesday at 11:00 weekly
- Went over total progress so far
 - Basic website setup, CRUD operations for users, backend code for research, SSH into server, create new record for AI agents, offline gameplay progress working
 - Todo
 - Frontend for research
 - Gameplay implementation
 - Live Server Setup

1/27

Agenda

- Discuss server issues/possible solutions
- Get info about research team/project from client for research team page
- Check in with Dr. K

Meeting with Dr. K

- Kien, RyanC working on gameplay
- Christian, RyanM working on various UI and frontend/backend connection
- Derek working on unit tests
- Issues with server hosting
 - IT not cooperating, server still down
 - Give them a week to help, then discuss moving everything to other servers, like AWS
 - Will likely need a second server to communicate with TCU vpn
- Peer Reviews will be going out soon

2/3

Agenda

- Discuss release plan moving forward
- Progress check in with Dr. K

Meeting with Dr. K and Dr. Ma

- Progress check
 - Server is functional/live
 - Needs to be updated to latest version, but it is operational
 - Moving forward we are hoping to not use ssh, but purely http from gpu server
 - Research UI reworked to include AI agent profile
 - Next step: allow researcher to publish AI agents

2/10

Agenda

- Progress check
- Discuss next week plan

Meeting with Dr. K

- About and agent page set up
- Various bug fixes
- Manual for user cases
- Primitive gameplay server is active
 - Need to look into authentication
- We guess that the work is approximately 70% done
 - Still seem to be on track
 - Will start to connect larger pieces (like gameplay/training) soon

2/22

Meeting with Dr. K and Dr. Ma

- Progress check (Snow days slowed progress)
 - Various UI pages tweaked and metrics page added ELO graph
 - Metrics connector code created
 - Play on 7x7 board operational
 - Various bug fixes with user authentication and password reset
- Todo
 - Admin page for user and agent control
 - Pregame setup page
 - News page
 - Work on replay feature
 - Continue putting pages on live server

3/3

Meeting with Dr. K and Dr. Ma

- Progress check
 - Admin page UI and routes created, need to connect
 - Pregame UI created
 - News page setup
 - Need to rework wording
 - Sign up altered to include researchers
 - Play and replay are functional on 7x7 board
- Todo
 - Frontend/backend routes

- Setup hint feature in gameplay
- Tweak wording/UI based on client feedback

3/12

Meeting with Dr. K and Dr. Ma

- Frontend backend code in progress (Metrics, training, etc)
- Need to meet with client for fine tuning wording on news page
- Training script being worked on to be more dynamic
- Profile page now functional (Static pages should now be easier to connect)
- Gameplay and admin routes in progress
 - Hint feature put on temporary hold until gameplay is completely functional
- Todo
 - Continue working on gameplay
 - Meet with Dr. Ma about fine tuning
 - Continue connecting pages to live server
 - Work on SRS presentation

3/17

Meeting with Dr. K and Dr. Ma

- Progress
 - Training script working, needs to be pushed
 - Hint feature operational
 - Training operational, client requests some tweaks
 - More progress on static connector code (need to push)
 - Gameplay seems to be operational
- Todo
 - Make SRS poster
 - Finalize training
 - Publish gameplay on main site
 - Save game/Replay functions

3/24

Meeting with Dr. Ma

- SRS Poster prototype shown
 - Client feedback requires edits
- Training fully functional (sans testing)
- Play backend routing operational
 - Needs frontend work
- Hint feature done, save file working

3/29

Meeting with Dr. K and Dr. Ma

- Will meet on Wednesday for full demo
 - Record meeting
- Plans to have everything posted onto the server by weekend
- Poster revisions needed (due April 1)

3/31

Client Acceptance Test

- Demo of all features
- Critiques/ToDo
 - Add reCaptcha for all users or approval process for all users, not just researchers to prevent injection attack
 - Add line to tell that researchers will be notified on approval or denial
 - Fix bug on researching
 - Make metrics prettier
 - Implement gameplay onto main servers
 - Make UI better for gameplay
 - Add hint to replay?

4/7

Meeting with Dr. Ma and Dr. K

- Google Analytics inserted into site
- Gameplay operational
- Will have Dr. Dou and other users perform user tests
 - Create universal spreadsheet to share with testers
- User manual (overleaf for Latex)
- Videos for demos in final presentation
- Plan to have Jar updated by Monday

4/14

Meeting with Dr. K

- Gameplay not fully operational, multiple connections causing issues, ip address missing
 - Everything working locally, just deployment causing issues
- Postgame finished
- Frontend all finished
- Planning to have everything operational by the end of today

4/16

Meeting with Dr. K and Dr. Ma

- SRS today, fully prepped and ready
- Site ready for testing
 - Firewall issue fixed by TCU IT department
 - Derek and Ryan C. fixed
- Todo
 - Promote Ma to researcher/admin
 - Minor bug fixes
- Next time
 - Documentation
 - Final fixes
 - Wait for testing/bug fixes

4/21

Meeting with Dr. K and Dr. Ma

- Site improvements
 - Gameplay fully operational
 - Replay operational
 - Hint fix waiting to be deployed
 - HTTPS now enabled (was IT firewall issue)
 - Video demos complete
- Ma improvement list (to be implemented by 4/27)
 - Change site title to Go 2 AI
 - Main splash page text change to “Let us Go then, you and I ...”
 - Change order in header to About Us, News, How to Play, Sign-In
 - Change footer to be visible when logged in only
 - Various changes to About Us page, sent in email (Done)
 - distinguish that email has not been verified/approved
 - Add Admin functions to user manual to update About Us/News pages

4/28

Meeting with Dr. K and Dr. Ma

- Go over improved slides
- Much better
- Add animations?