

Electronic Golf League Scheduler

Ethan Evans, Aidan Andreas, Brady Zalasky, Nick Landon, Maxwell Farver

Team: sddec21-03

Website: <https://sddec21-03.sd.ece.iastate.edu>

Advisor: Mai Zheng

Client: Tina Prouty

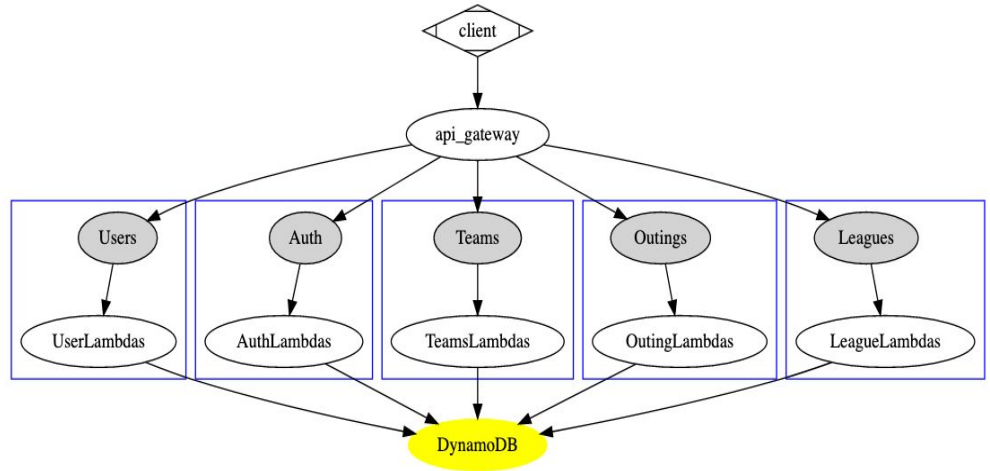
Project Goal

- Tina Prouty
 - Academic Advisor for E CPE
- Administrator for a women's golf league
 - Honey Creek Golf Club in Boone, Iowa
- Create a web application to handle golf teams and matchups
- Current system can't handle the current club size
- New system should be user friendly and easy to maintain
- Ideally should cost no more than a few dollars a month

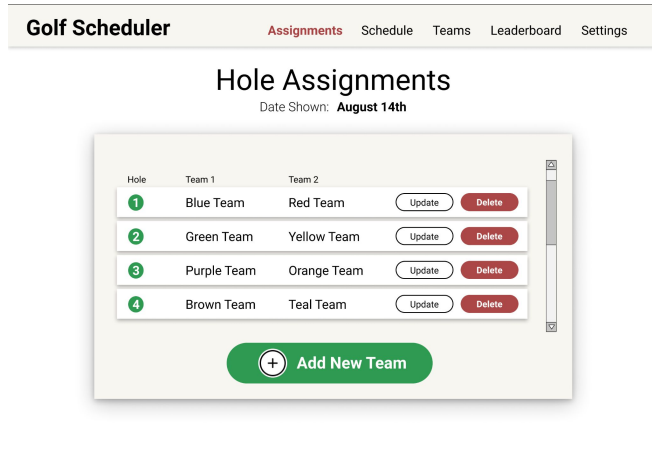


Projects Overview

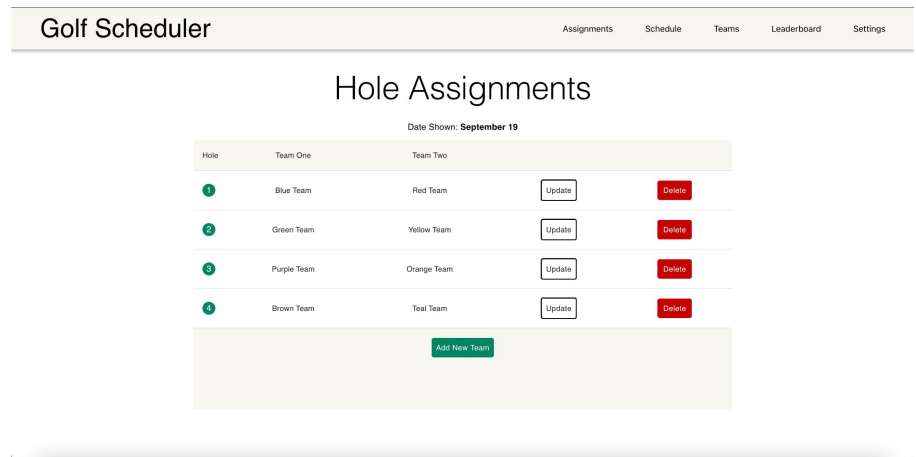
- Utilize AWS free tier for backend
- Node.js chosen for its cold starts which will be the majority of interactions
- DynamoDB chosen for compatibility with AWS free tier and is ideal for serverless architecture
- Netlify chosen for simplicity of deployment and domain configuration
- Single Page Application written in React
 - Each page will be its own directory



UI Mockups



Mockup



Our Progress

Technical Challenges

- Learning new development tools
- Building and running the project on our own personal devices
- Staying organized with trello and gitlab
- Maintaining frequent communication with the team, our advisers, and our client
- Getting all team members comfortable with frontend/backend

Project Progress



Already Completed

- Set up project git repository
- Implemented a few frontend pages for our website
 - Schedule page
 - Hole Assignment Page
 - Navigation Bar
- Set up backend structure

Near Future

- Continue adding more web pages to our frontend
- Add Services to our backend
- Combine the front and back ends to work together

Team Member Roles



Frontend

Ethan
Brady

Backend

Max
Nick
Aidan

Progress Report

Ethan
Nick
Max
Aidan
Brady

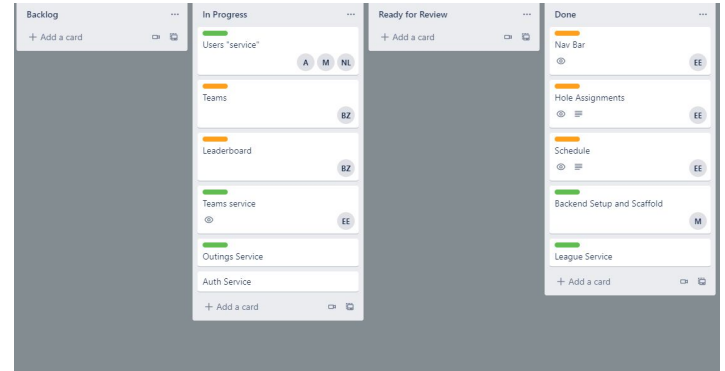
PIRM

Ethan
Nick
Max
Aidan
Brady

Project Meetings

- Schedule a meeting with the client every two weeks
 - To confirm any questions we have
 - Demo and show progress
- Have project meetings and stand up every week
 - Talk about what we will be doing in the upcoming week
 - Discuss any issues that come up
- Utilize a Slack for constant communication
 - Separate channels for code review, general, frontend, backend, etc.

Development Approach



- Utilizing Docker containers to be sure everyone can develop on their own machine
 - Makes development easier
- Develop the frontend and backend separately
- Development happens on a feature branch
 - Must have one approver before being able to merge
 - Master is a protected branch
- Utilizing Trello for tasks
 - Backlog, In Progress, Ready for Review, Completed
 - Make sure everyone has something to work on



Feedback

For feedback on our project, direct your questions to edevans@iastate.edu

