Electronic Golf League Scheduler

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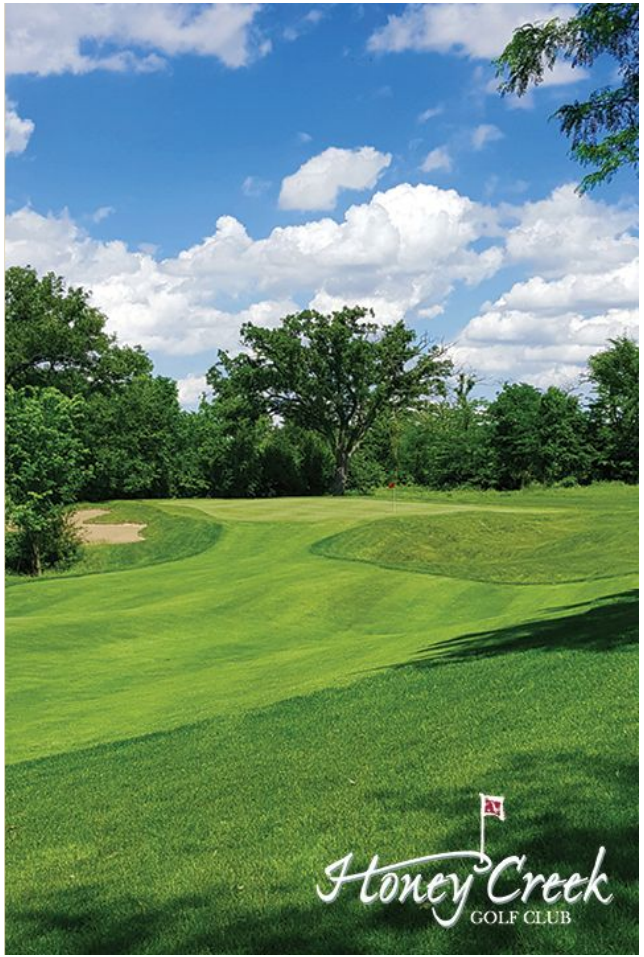
Team: sddec21-03
Website: https://sddec21-03.sd.ece.iastate.edu
Advisor: Mai Zheng
Client: Tina Prouty

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

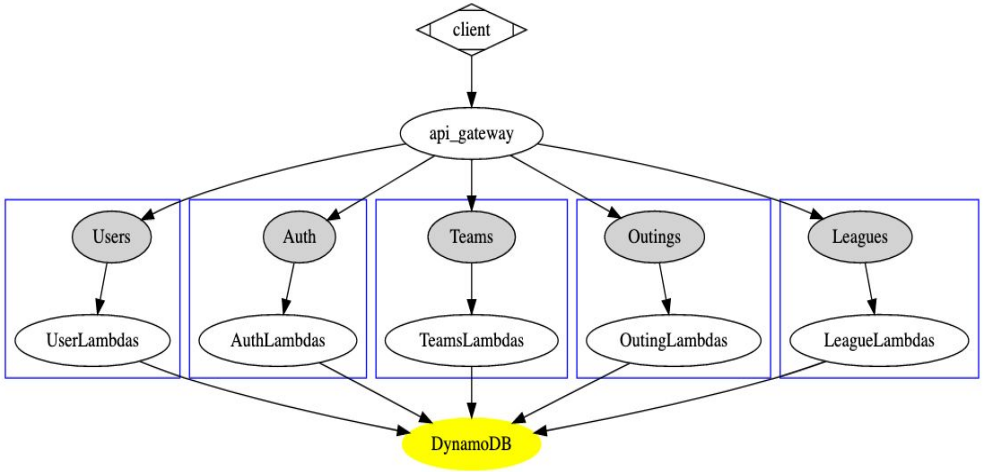


Projects Overview

- 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

Local Dev:

- Docker
- DynamoDB-local
- Serverless framework

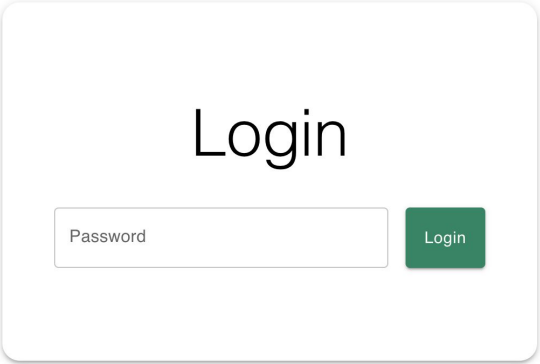


Backend Services/Login Page

Upcoming Outings

Date	Time	Participants		
8/14/2021	10:00 AM	32	Update	Delete
8/21/2021	10:00 AM	28	Update	Delete
8/28/2021	10:00 AM	25	Update	Delete
8/4/2021	10:00 AM	30	Update	Delete

Add New Team



Technical Challenges

- Testing strategies and debugging newly implemented services
- Communicate with our client to receive feedback and adjust product accordingly
- Getting site live and deployed to AWS without issues
- Staying organized with trello and gitlab

Project Progress

Already Completed

- Data is now being populated dynamically from the backend
- Authentication is complete (admin access only)
- API client for Frontend is complete to facilitate quick iteration

Near Future

- Implement scheduling logic
- Deploy to AWS
- Clean up UI
- Run testing to find and fix any bugs/errors

Team Member Roles

Frontend	Brady
Backend	Aidan and Nick
Frontend/Backend	Max and Ethan
Progress Report	Everybody
PIRM	Everybody

Testing Strategies

- Unit Testing
  - Test endpoints
- Integration Testing
  - Test the microservice and how it interacts with the UI
- Testing UI
  - Test for expected behavior for user fields

Next Steps

- Solidify business use cases and requirements
- Give the client an MVP to begin testing
- Create documentation to support application

Feedback

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