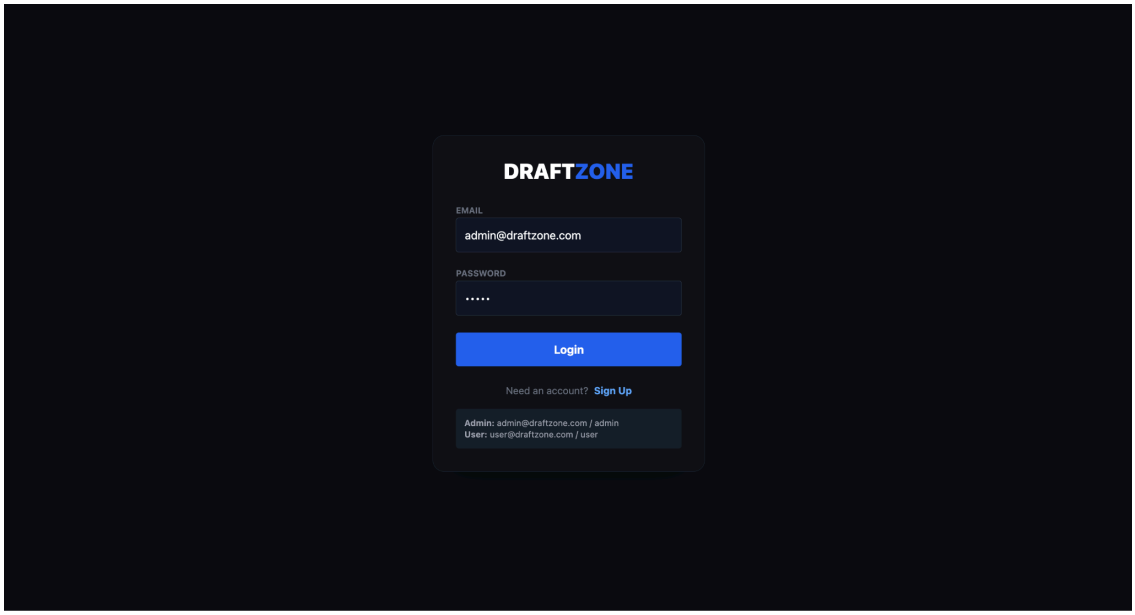
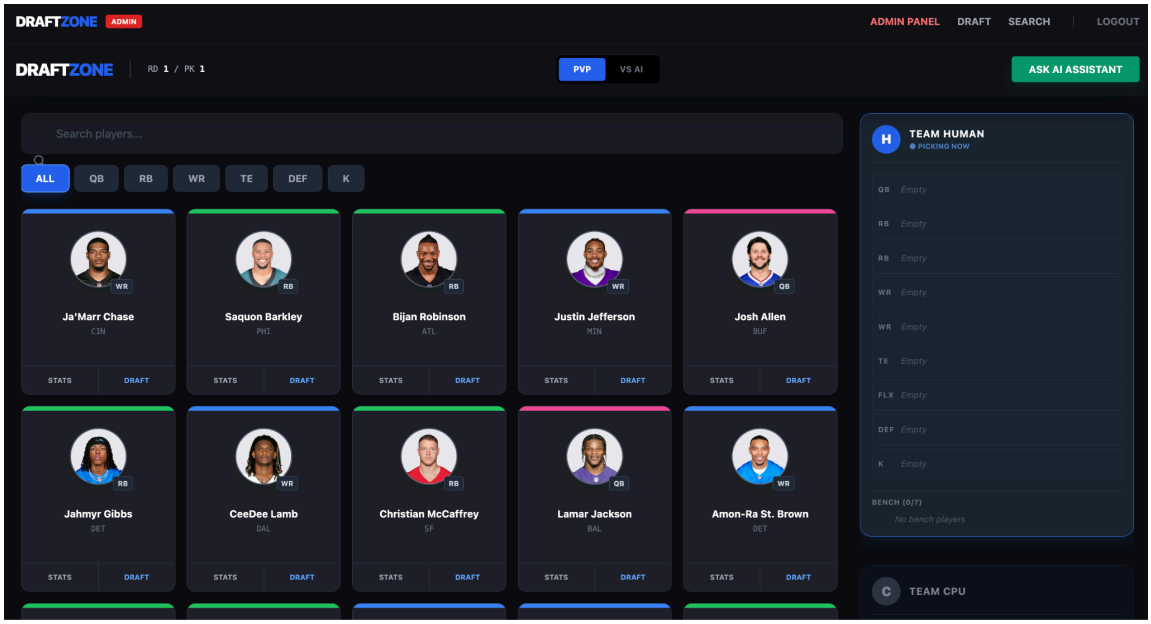
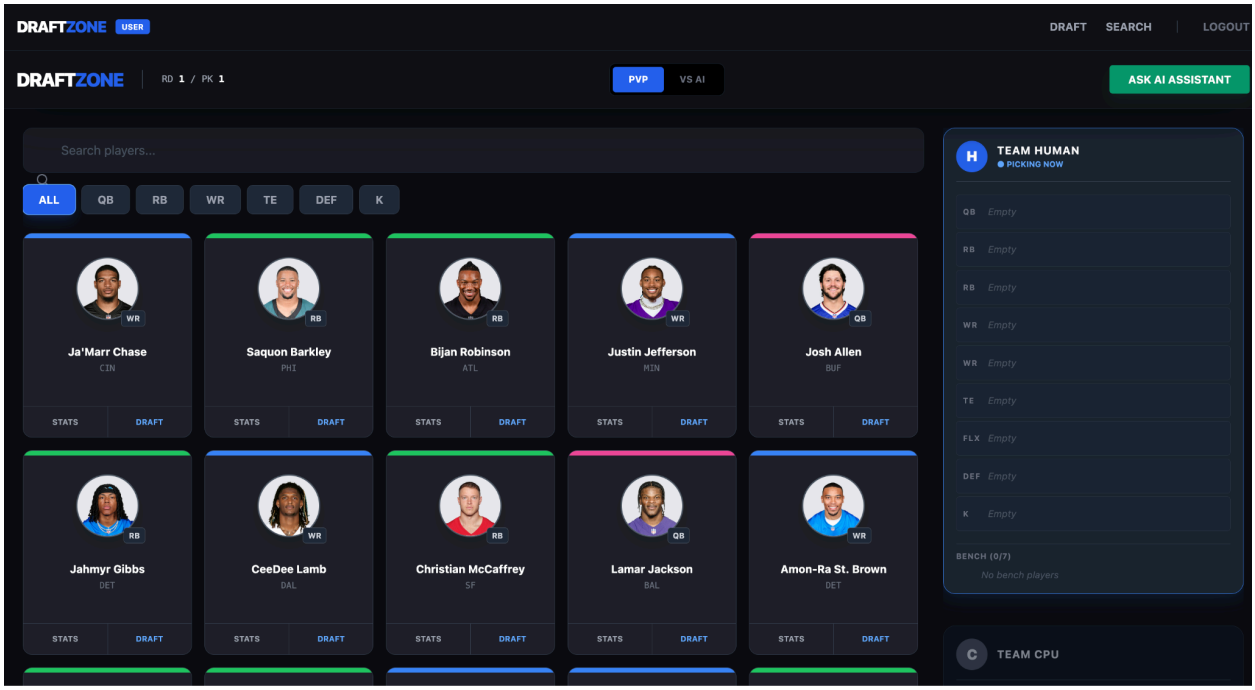
For Mini-Assignment 2, I focused on making DraftZone feel like a real, working product by building out the Draft Simulator page and connecting it to a live backend. The simulator is now fully interactive, letting users draft players into different roster spots while the app checks for things like duplicate positions or going over the bench limit. The page uses a clean dark-mode layout that shows player images, stats, and team info, and it ends with a recap screen that totals each drafted player's projected 2025 fantasy points. I also added basic role-based behavior so that only admins can access certain pages, while regular users are automatically redirected to the main drafting experience.

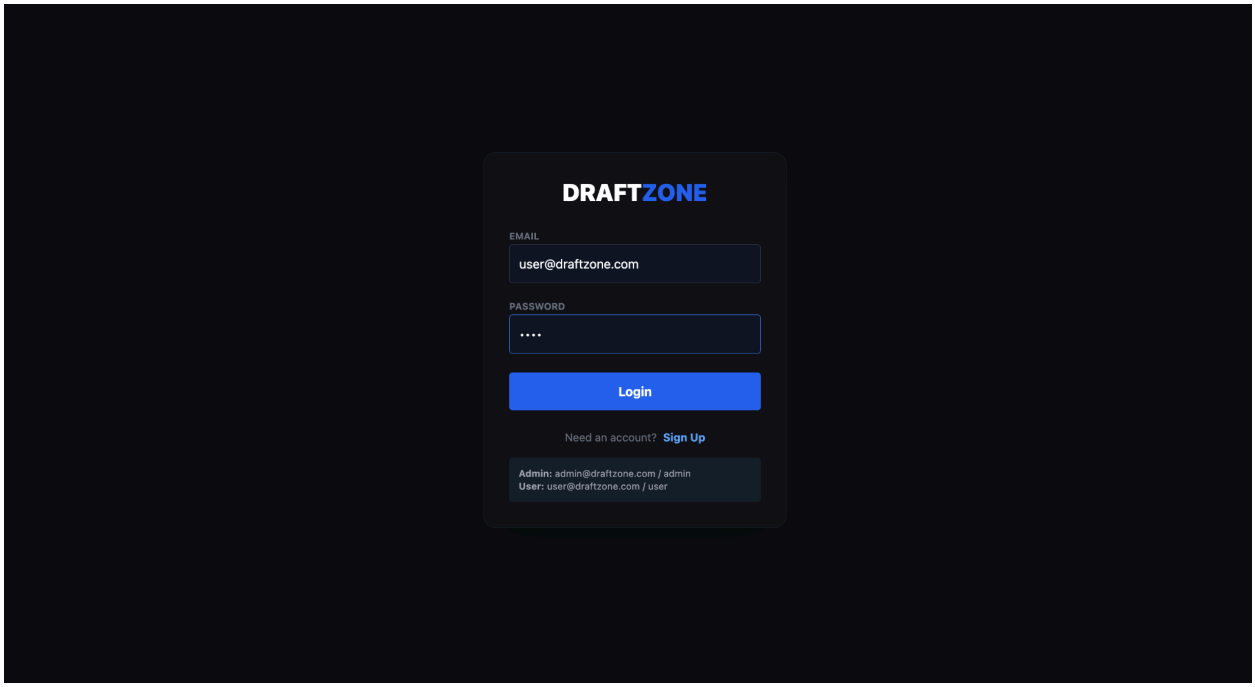
To support all of this, I set up a Node.js and Express backend that the frontend talks to whenever it needs player data or AI-powered CPU picks. The server handles things like CORS, API key safety, and combining data from multiple Sleeper endpoints before sending it back to the simulator. It also includes separate routes for fetching player stats, handling simple authentication, and generating CPU draft choices using Google Gemini, with a fallback system so the simulator never breaks if the AI request fails. I updated our planning documents as well, including diagrams that explain how data flows between the frontend, backend, and external APIs, along with how the login system decides whether a user should go to the admin panel or the draft page.

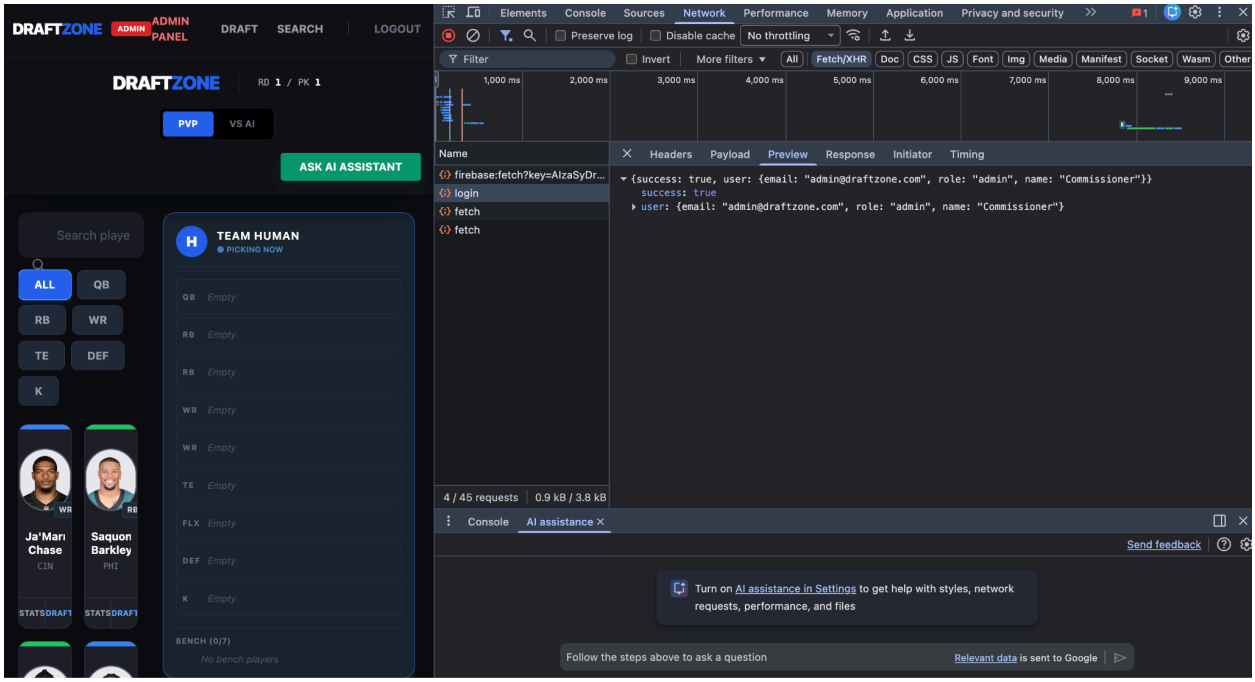


https://git.las.iastate.edu/se-coms-3190/fall-2025/final-project/PS_2/-/tree/2-DraftSim-uibackend?ref_type=heads


DRAFTZONE
ADMIN
ADMIN PANEL
DRAFT
SEARCH
LOGOUT
DRAFTZONE
RD 1 / PK 1
PVP
VS AI
ASK AI ASSISTANT
Search players...
ALL
QB
RB
WR
TE
DEF
K
Ja'Marr Chase
CIN
Saquon Barkley
PHI
Bijan Robinson
ATL
Justin Jefferson
MIN
Josh Allen
BUF
Jahmyr Gibbs
DET
CeeDee Lamb
DAL
Christian McCaffrey
SF
Lamar Jackson
BAL
Amon-Ra St. Brown
DET
STATS
DRAFT
TEAM HUMAN
PICKING NOW
QB Empty
RB Empty
RB Empty
WR Empty
WR Empty
TE Empty
FLX Empty
DEF Empty
K Empty
BENCH (0/7)
No bench players
TEAM CPU


DRAFTZONE
USER
DRAFT
SEARCH
LOGOUT
DRAFTZONE
RD 1 / PK 1
PVP
VS AI
ASK AI ASSISTANT
Search players...
ALL
QB
RB
WR
TE
DEF
K
Ja'Marr Chase
CIN
Saquon Barkley
PHI
Bijan Robinson
ATL
Justin Jefferson
MIN
Josh Allen
BUF
Jahmyr Gibbs
DET
CeeDee Lamb
DAL
Christian McCaffrey
SF
Lamar Jackson
BAL
Amon-Ra St. Brown
DET
STATS
DRAFT
TEAM HUMAN
PICKING NOW
QB Empty
RB Empty
RB Empty
WR Empty
WR Empty
TE Empty
FLX Empty
DEF Empty
K Empty
BENCH (0/7)
No bench players
TEAM CPU


DRAFTZONE
EMAIL
user@draftzone.com
PASSWORD
Login
Need an account? Sign Up
Admin: admin@draftzone.com / admin
User: user@draftzone.com / user

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