

Andrew Tsai, Jiefeng Ou, Tudor Ganshaw, Mustafa Abdullah
sheep
P2 Design Document
TARGET SHIP DATE: 2026-01-16

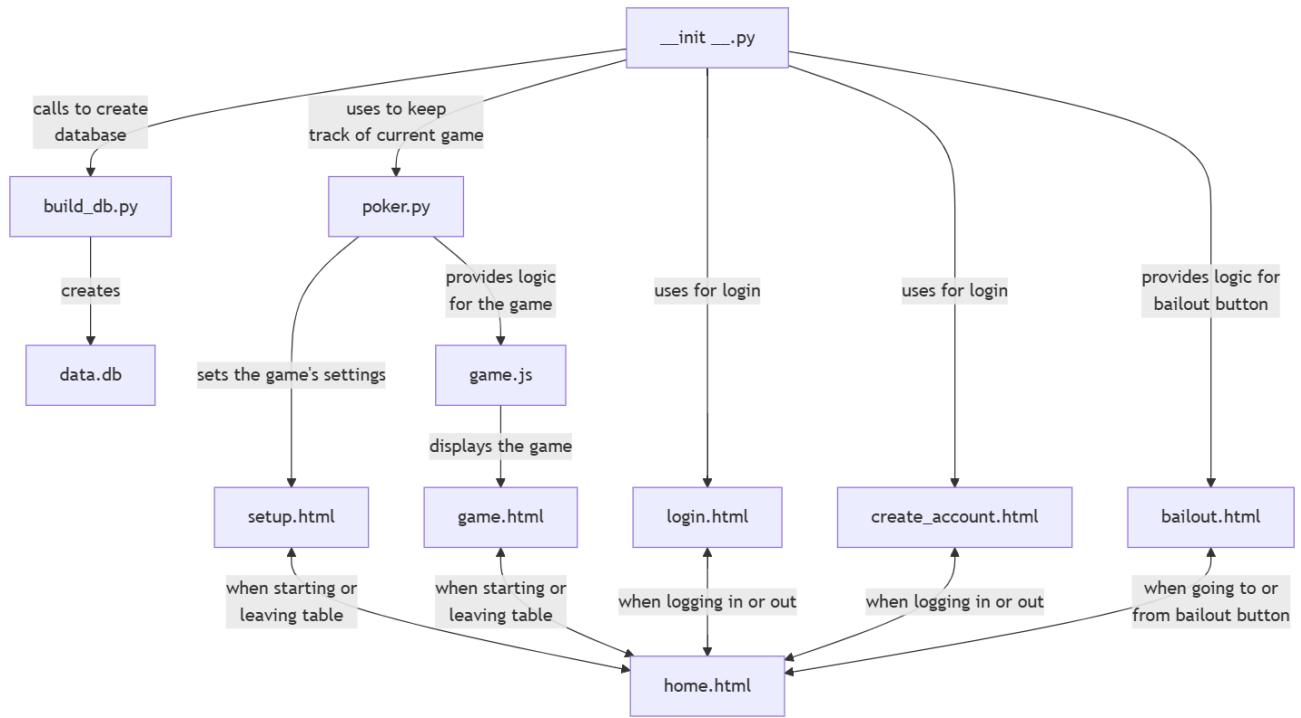
PROJECT DESCRIPTION:

A (draw) poker game where users can create accounts & log in, then play against a bot and bet fake currency. A player can infinitely spawn in bots and gain money. If the player loses so much money that they can't bet, they can be bailed out with a +\$1/click button. The game ends when the player wishes to leave the table, and their current balance is saved. There could also potentially be a leaderboard, where users can see who has the most total winnings.

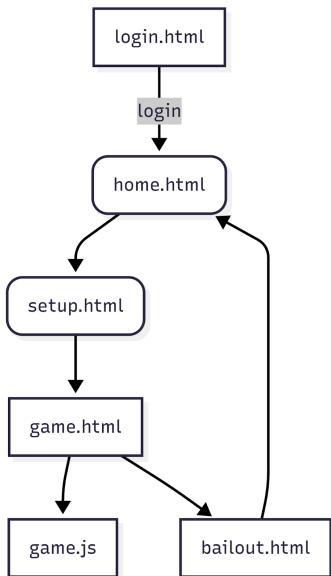
COMPONENT STRUCTURE:

- `__init__.py`: Runs flask, calls `build_db.py` and `poker.py`
- `build_db.py`: Creates `data.db`
- `data.db`: Used for storing account info
- `poker.py`: Contains all the poker logic and helper functions, used when a game is running
- `login.html` & `create_account.html`: Creating accounts and logging in
- `home.html`: Page to direct people to a poker game or the bailout button, and where a potential leaderboard would be.
- `setup.html`: Menu for creating a poker game, with settings like how many opponents, starting currency, and cost of blinds and starting bets.
- `game.html`: Where poker is played. There would be buttons for the various actions you could take, as well as buttons for spawning in bots or other players. JS will be used here.
- `game.js`: To animate the screen and bring the game to life.
- `bailout.html`: Where the bailout button resides. If a player is under \$1000, they can click the button to get \$1/click.

COMPONENT MAP :



SITE MAP :



DATABASE STRUCTURE:

Users		
TEXT	username	
TEXT	password	
INT	balance	
INT	id	primary key

TASKS:

POKER LOGIC + BOT: TUDOR
JS: JIEFENG (JEFF)
HTML/CSS: MUSTAFA
PM/FLASK/DB: ANDREW

Frontend Framework:

Tailwind will provide us with much more flexibility to build our own styled elements and components compared to other frameworks, while most of our graphics will be javascript centric with the canvas tag, for the HTML based sections of our website such as the login and home pages, tailwind will provide much needed graphical options like cards.

- HTML Templates
 - Login Page
 - User logs in
 - Register Page
 - User registration
 - Profile Page
 - Can view past matches played, current amount of money, amount of money gained/lost in each match
 - Home Page
 - Can initiate a new game, navbar at the top with other
 - Setup Page
 - Game Page
 -
 - Bailout Page
 - Interactive button, user gets loaned \$1/click (up to \$1000 max)
- CSS Templates
 - Style.css, Tailwind