**Back2Trade**

**Project Description**

Back2Trade is a gamified stock backtesting application that simulates trading on historical market data, candle by candle.

For each game session, an account balance is specified along with the desired time interval and candle length. Trades can then be placed in long or short positions with varying margins, and results are summarized at the end of the session.

**Scope**

1. Stock browsing
   * Display a list of available stocks
   * Search stocks by ticker or company name
   * View a detailed page with stock information and past gameplays
2. Game options
   * Specify the account balance for each game
   * Select the time interval of the game
   * Choose the candle length
3. Gameplay
   * Open long and short option positions with adjustable margins at each iteration
   * View a results summary at the end of the game
4. Games history
   * Access a list of all past games
5. User accounts
   * Authorization and login
   * Personalized game history
   * Favorite stocks list

**Stocks APIs**

1. Financial Modelling Prep

Documentation: https://site.financialmodelingprep.com/developer/doc

250 calls / day

1. Finnhub

Documentation: <https://finnhub.io/docs/api>

60 calls / minute (better)