Take-home Code Exercise:

Consider an online bank account system that keeps track of accounts and their balances, allowing for both deposits and withdrawals. Write a small web service that implements this bank account system as an HTTP API. Accounts should be stored in a data store of your choice, but should be able to handle requests at commercial scale.

Include a readme with your submission that includes the following:

- A high-level description of your approach
- How to build and run your service

You need not spend more than 2 or 3 hours on this exercise. If you have any clarifying questions about the prompt, feel free to reach out to ddurst@mozilla.com.

Your service should implement the following endpoints:

POST /account

Description: Create an account with the given name and a balance of 0.00.

Request Body Format:

Field Name	Type
name	String

Example: `{ "name": "Savings" }`

GET /account/:name

Description: Retrieve an account by its name. If an account with the given name does not exist, return HTTP status 404 with no response body.

Response Body Format:

Field Name	Type
name	String
balance	Float

Example: `{ "name": "Savings", "balance": 5.25 }`

POST /account/:name/deposit

Description: Deposit money into the account with the given name. If an account with the given name does not exist, return HTTP status 404 with no response body.

Request Body Format:

Field Name	Type
amount	Float

Example: `{ "amount": 5.0 }`

POST /account/:name/withdraw

Description: Withdraw money from the account with the given name. If an account with the given name does not exist, return HTTP status 404 with no response body.

Request Body Format:

Field Name	Type
amount	Float

Example: `{ "amount": 5.0 }`