

Pinky Promise Software Engineer Interview

In this assignment we will explore the architecture and design of a Period Tracker Application. You will choose the tech stack, design the database structure, design the architecture, and describe the APIs.

Thinking Through Architecture

A Period Tracker (like [flo](#)) helps women keep a track of their periods and help get insights. A Period Tracker will allow you to log your periods and predict your next period (and also ovulation date range).

Choose your language and frameworks (backend) as well as your database. Think through the database design and define the API for this application (HLD/LLD). Block diagrams will be helpful here. Think through some features that would improve the experience for the user. Explain your reasoning and the potential challenges in implementation. Also think about potential challenges as the product scales to many users.

Implementation

1. Implement 1-2 API's from your list in the language of your choice. I am keenly interested in how you think about prediction logic.
2. Build a very simple front-end app using a language or framework of your choice, and integrate the API you implemented.
3. Create the database locally and add the data to it. – bonus

Please reach out to us if you have any questions at all.