Building a Platform for Wearable Device Health Data

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Background

Wearable devices can provide tremendous benefits to long-term population healthcare. However, pulling data down from third-party platforms is costly and may not have the data types necessary for research.

GOAL: Develop a platform to collect and analyze user health data from commercial wearable devices

Website Layout & Design

Allow users to:
- Learn about research studies conducted by BIG IDEAs Lab
- Create an account to share wearable device data

Integration

“Health data is messy and decentralized”

- APIs allow for scalable and efficient access to data using endpoints
- Use Garmin and Fitbit API endpoints to collectively store user health data in our centralized platform
- Host data in a SQL Database

Future Work

- Improve UI for mobile and web front end
- Finalize API endpoints
- Deploy web app on a remote server
- Test scalability and ease-of-use

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