

Eng Project - Web Usage Platform

Problem:

You are tasked with creating a consumer web usage tracking platform for families. There can be multiple users per family with multiple devices each.

Deliverables:

- **Chrome Extension:**

- A chrome extension(that will be installed on all user machines) is the mechanism by which we will collect any information we need from web browsers.
- Deliverable format: Compressed extension folder

- **Web Usage Backend:**

- The backend will 1) receive any data we need from browsers and store it appropriately 2) serve any data the dashboard requires.
 - Persistence is a requirement for the data.
- Deliverable format: Containerized backend

- **Dashboard:**

- Users should be able to filter their screen time usage by device and/or by website.
 - They can see the above statistics for 3 time periods: the past hour, the past 24 hours, and the past week.
- A user should also be able to see the total screen time(for the appropriate time period) of each person in their family but not the granular statistics.
- Deliverable format: Containerized React(any framework) app

Assumptions:

- **Auth:**
 - There's no need to implement auth.
 - Wherever appropriate allow a user to enter a username to log in and identify themselves.
- **Tracking:**
 - You can also assume that all of a user's web usage occurs on a web browser with the above extension installed.
- **Devices:**
 - You may assume that all devices used are laptops/desktops. There is no need to support mobile or any other type of device.

Rubric:

Usability and correctness are the most important aspect of this application.

Since this is a consumer application, a simple and elegant design is also important.