# **Entering for Fitbit**:

# What is/are your name(s)? What assignment group are you?

Group 3

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# Which framework did you select (Fitbit, Alexa, A-Frame)?

Fitbit, Alexa, A-Frame

# Q1: How, if at all, does this framework support package and library management?

Fitbit allowed us to support management of getting the user data, such as the time requested to convert the time to different time zones. Fitbit spacetime library package allowed us to get the current local time by default and convert it to London or New York times as requested. SVG Fitbit package enabled us to incorporate functionality and styling of 3 different main buttons, which are in charge of manipulating requested displayed time. In the meantime, we were able to locate the three buttons with the output text within the screen in the best way for users.

# Q2: How, if at all, does this framework support principles for code separation, like Model-View-Controller? Would the separation principles effectively support creation of a larger application? Why or why not?

Fitbit development is accurate representation of efficient principles applied for code separation, resembling application of similar principles during web development. Like how we would manage and develop buttons, different pages during web development, we were able to initiate the relationship and communication between an app and companion folders. Companion folder was in charge of providing the spacetime libraries and helper functions to app, while app was in charge of communicating with buttons and rendering the requested times. Similar to web development we manipulated all three buttons and initiated event listeners for them. The ability to link all files together and enabling export to other files supports efficient separation principles which allow us to extend our app to a larger scale development.

# Q3: In lecture, we discussed a few design recommendations for each respective device. How, if at all, does the framework support the recommendations for that device? What recommendations are left to the developer to decide how or whether to implement?

There is a limit to the amount of buttons we could have for our Fitbit device. It limits us to have only the most necessary data on buttons presented to users on the screen. It is very clear that user does not have to make big decisions, being overwhelmed with the options and therefore the framework allows following a very intuitive and simple design interface. We incorporated Fitbit SVG buttons in a way to allow users perform a quick time input by having to press either “local time”, “London”, or “New York” buttons. Having default big buttons along with bolded text made it easier and more intuitive for users to use the app. It was not clear to make sure Fitbit supports easy glanceable feedback as most of buttons controls seem very similar to other web development applications. Therefore, it was up to us to decide how we could incorporate a glanceable feedback for usage.

# Q4: What appear to be benefits to using web technologies for development on this device? Conversely, what advantages might a native framework have over the framework you used?

With Fitbit we did not have to additionally implement any of HTML files, the index.view was in charge of managing the main view of the app, which is very convenient for us developers. At the same time, being in charge of HTML provides us greater control and more flexibility with management of all the elements such as text placement and button sizing. It was confusing and unintuitive to have to manipulate text for buttons in two of the files instead of having to change one main HTML one, we had to manage button texts in both styles.css and index.js files.

# Q5: What did you find easy and challenging about development in this framework?

It was confusing to get started with figuring out how we could incorporate spacetime library from companion folder to the app, while manipulating both local and different time zone times. Having to distinguish between both but linking the current local time to the one from requested time zone seemed to be tricky. However, it did eventually help to better understand the hierarchy and relationship between the app and companion folders. In the meantime, it was easy and intuitive to incorporate event listeners for buttons, as it was like the way we would in all other frameworks.