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CSS 545 - Mobile Computing
HW3 - State Management
Due: 05/05/2024

The various states that an app can enter on your platform of choice

The states an iOS app can be in:

- Not running - “This is the initial state of an app when it is not launched or has been terminated by the system”
(<https://emregurses.medium.com/ios-app-state-513a6d4ffcc7#:~:text=Not%20running%3A%20This%20is%20the,transitions%20to%20a%20different%20state.>)
- Active - when the app is what is shown on the screen. It is either entered from initializing the app or from when the app is in an inactive state.
- Inactive - “Inactive state is a brief state appearing while the app is leaving or entering the active state. While inactive, the app is updating the UI but it is not receiving user touches.”
(<https://www.codecentric.de/wissens-hub/blog/handling-ios-app-states-state-machine>)
- Background - this state lasts from 10-180 seconds. It occurs when the app is no longer in the active state and still executing code (usually when the app is on its way to being suspended).
- Suspended - this is when the app is in the background/in memory and not executing any code.

The various states that you must consider for your app, why you must consider it, and what must happen in each state.

- Active state
 - This needs to be considered because it is the state in which the app is being shown and running.
 - My app needs to display the correct screen, react to user input, save user data, and do any other task the app requires.
- Background
 - This needs to be considered because it is where any last minute saving is.
 - My app needs to save all user input and update the json before closing. Also, it needs to save information about the app's state so it can be restored.

- Inactive
 - This needs to be considered because it is what happens directly before or after the active state.
 - My app needs to use the inactive state to load the UI when coming back from the background state to the active state. It should also do some saving of user input into text boxes when leaving the active state.