# Class Activity

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|  | Independent Variable | Dependent Variable |
| 1 | Task completion feedback | Difficulty in evaluating system state after performing an action |
| 2 | y-position of buttons | Difficulty in reaching the button with single-handed use of a tall smartphone |
| 3 | Number of tabs on the Home screen [3 or 5] | Median time to discover each core feature |
| 4 | Presence of a tooltip on Icon Buttons (buttons without a label) | Error rate |
| 5 | Reminder notification | Flexibility increases |
| 6 | Presence of push notifications for each received request | Median time to respond to received requests |

### **Hypotheses**

1. *No change in difficulty in evaluation of system state whether feedback is given or not.*

Outcome: Difficulty in evaluation of system state increases if no feedback is given.

1. *No change in difficulty in reaching the buttons with single-handed use of a tall smartphone with increase in y-position of the buttons.*

Outcome: Difficulty in reaching the buttons with single-handed use of a tall smartphone increases with the increase in y-position the button.

1. *No change in median time to discover all of the core features with number of tabs on the Home screen.*

Outcome: Median time to discover all of the core features of the application increases with decrease in number of tabs from 5 to 3.

1. *No change in error rate whether a tooltip message is present on long press or not.*

Outcome: Error rate increases if a tooltip message is not displayed.

1. *No change in readability with change in smallest font size used.*

Outcome: Readability increases as the smallest font size used increases.

1. *No change in median time to respond to received requests whether push notifications are sent or not.*

Outcome: Median time to respond to received requests increases if push notifications are not sent.