**Survey Variables**

**Survey functionality:** The macro variables that enable functionality and allow analysis to be neatly tied together.

**automaticSurvey Count**: This keeps a running count for each user of the number of push surveys they have completed.

**userID:** Passed as a variable to each row of data that is created for a push survey response by a user. This variable is critical to being able to link user data together in the analysis phase.

**notif\_timestamp:** This captures the time that a push notification is sent to a user and is critical to the measurement of study participant response times. It allows us to eliminate (and not compensate for) push survey responses that occurred after a set amount of time after the notification. The default setting for this is 15 minutes. *If points are enabled in your study, this means that a point is not added for a notification that is responded to after the 15 minute window.*

**userEmail:** This variable can be useful but is not critical to study operation.

**userSurveyID:** A randomly generated character string that serves as a unique identifying for each survey filled out by a user. This variable is also not critical.

**Q\_Language:** This variable can be set in order to deliver Qualtrics language functionality to the study participant’s mobile app.

**Sensor data:** Key sensor data that is tracked and delivered for each survey response. These allow for complex analyses that require situational data.

Phone status: battery\_level, battery\_state

Geolocation: latitude\_start, longitude\_start, altitude\_start

Environmental: noise\_level

User activity: steps\_since\_last\_survey, last\_step\_timestamp

**User settings:** If enabled in the app, study participants can change the time and quantity of push notifications they receive. If these are changed, we are able to track those changes through these variables that are added to each response.

Key measures: sNotif (daily start time). eNotif (frequency), dNotif (days of week), nNotif (daily end time)