

Product Backlog**Updated:***February 26, 2021*

Story Number:	Experiment - 01.XX.01
Rationale:	Vital function to the app's purpose. Essentially used as the foundation for all other stories.
Story Points:	Publish, Unpublish, End Experiment, Subscribe, Execute Trials, View Histograms, View Plots, Ignore Results, Observe Stats
Risk:	High
Status:	In Progress

Requirement #:	1) When an experiment owner publishes an experiment, they must be able to provide a description, region, and minimum number of trials.
Story Number:	Publish - 01.01.01
Rationale:	Publish an experiment.
Risk:	Medium
Status:	In Progress

Requirement #:	2) An experiment owner must be able to unpublish an experiment.
Story Number:	Unpublish - 01.02.01
Rationale:	Unpublish an experiment.
Risk:	Medium
Status:	In Progress

Requirement #:	3) An experiment owner must be able to end the experiment, which remains public but no longer accepts new trials.
Story Number:	End Experiment - 01.03.01
Rationale:	Ends an experiment.
Risk:	Medium
Status:	In Progress

Requirement #: 4) An experiment owner or a crowd experimenter must be able to subscribe to experiments.

Story Number: Subscribe - 01.04.01

Rationale: Subscribe to an experiment.

Risk: Medium

Status: In Progress

Requirement #: 5) They must be able to record trials for that experiment.

Story Number: Execute Trials - 01.05.01

Rationale: Execute Trials on an experiment.

Risk: Medium

Status: In Progress

Requirement #: 6) The results of an experiment must be able to be displayed in a histogram over time, which must be visible to the experimenter or experiment owner.

Story Number: View Histograms - 01.06.01

Rationale: View Histograms for an experiment.

Risk: Low

Status: In Progress

Requirement #: 7) The results of an experiment must be able to be displayed in plots over time, which must be visible to the experimenter or experiment owner.

Story Number: View Plots - 01.07.01

Rationale: View Plots for an experiment.

Risk: Low

Status: In Progress

Requirement #: 8) The experiment owner must be able to ignore results at their discretion.

Story Number: Ignore Results - 01.08.01

Rationale: Ignore Results for an experiment.

Risk: Low

Status: In Progress

Requirement #: 9) Experiments must display the quartiles, median, mean and standard deviation of the experiment results. These statistics must be available to be displayed for an experimenter or experiment owner.

Story Number: Observe Stats - 01.09.01

Rationale: Observe Stats for an experiment.

Risk: Medium

Status: In Progress

Story Number: Questions - 02.XX.01

Rationale: Strong component to the experiment. Bolsters definition and context of an experiment.

Story Points: Question, Reply, Browse

Risk: Medium

Status: In Progress

Requirement #: 10) An experimenter must be able to ask a question about an experiment.

Story Number: Question - 02.01.01

Rationale: Adds a question to the experiment.

Risk: Medium

Status: In Progress

Requirement #: 11) Experimenters and experiment owners must be able to reply to experiment questions.

Story Number: Reply - 02.02.01

Rationale: Adds a reply to the experiment.

Risk: Medium

Status: In Progress

Requirement #: 12) An experimenter or experiment owner must be able to browse questions and replies for an experiment.

Story Number: Browse - 02.03.01

Rationale: Browse questions for an experiment.

Risk: Medium

Status: In Progress

Story Number:	QR Codes - 03.XX.01
Rationale:	The QR code acts as a digital signature for each product of the experiment.
Story Points:	Generate, Scan, Register
Risk:	Medium
Status:	In Progress
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Requirement #:	13) An experimenter must be able to generate QR codes that can be printed for a specific experiment and trial result.
Story Number:	Generate - 03.01.01
Rationale:	Generates a QR Code.
Risk:	Medium
Status:	In Progress
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Requirement #:	14) An experimenter must be able to scan QR codes to indicate success, failure or increment counts for a subscribed experiment.
Story Number:	Scan – 03.02.01
Rationale:	Scans a QR Code.
Risk:	Medium
Status:	In Progress
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Requirement #:	15) An experimenter must be able to scan arbitrary bar codes to be used as an experiment result.
Story Number:	Register - 03.03.01
Rationale:	Registers a QR Code.
Risk:	Medium
Status:	In Progress
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Story Number:	User Profile - 04.XX.01
Rationale:	Provides an identity behind experiments and the interactions around them.
Story Points:	Create, Edit, Retrieve
Risk:	Medium
Status:	In Progress
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Requirement #:	16) Users must have a profile with a unique username.
Story Number:	Create - 04.01.01
Rationale:	Creates a User Profile.
Risk:	Medium
Status:	In Progress
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Requirement #:	17) The user profile must also have contact information which can be edited by the user.
Story Number:	Edit – 04.02.01
Rationale:	Edits a User Profile.
Risk:	Medium
Status:	In Progress
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Requirement #:	18) Users must be able to search for other users and view their profiles.
Story Number:	Retrieve - 04.03.01
Rationale:	Retrieves a User Profile.
Risk:	Medium
Status:	In Progress
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Story Number:	Searching - 05.XX.01
Rationale:	Search & browse through experiments found throughout the app.
Story Points:	Specify Keyword, Search Results
Risk:	Medium
Status:	In Progress
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Requirement #:	19) Users must be able to search for experiments by keyword.
Story Number:	Specify Keyword - 05.01.01
Rationale:	Specifies a keyword for the search.
Risk:	Medium
Status:	In Progress
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Requirement #: 20) Experiment search results must show descript, owner username and experiment status (in progress/ended).

Story Number: Search Results – 05.02.01

Rationale: Displays search results.

Risk: Medium

Status: In Progress

Story Number: Location - 06.XX.01

Rationale: Attaches a location to Users and Experiments.

Story Points: Specify, Add, Warned, View

Risk: Low

Status: In Progress

Requirement #: 21) The experiment owner must be able to specify if a Geo-location is required to record trials.

Story Number: Specify - 06.01.01

Rationale: Specifies a location.

Risk: Low

Status: In Progress

Requirement #: 22) Experimenters must be able to add Geo-location for trials when it is required.

Story Number: Add – 06.02.01

Rationale: Adds a location.

Risk: Low

Status: In Progress

Requirement #: 23) Experimenters must be clearly warned about experiments that require Geo-location.

Story Number: Warned - 06.03.01

Rationale: Provides a warning about the location requirement.

Risk: Low

Status: In Progress

Requirement #:	24) On a Geo-location enabled experiment, a map of Geo-locations must be able to be displayed to experimenters.
Story Number:	View - 06.04.01
Rationale:	View a location.
Risk:	Low
Status:	In Progress
