# Making the Most of



## All About Surveys





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Senior Systems Analyst / REDCap Administrator

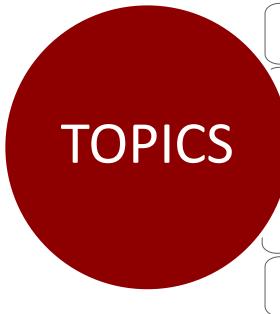


Introduction to REDCap 11/19/19

Beyond the REDCap Basics 2/20/20

All About REDCap Surveys 4/14/20

http://cri.uchicago.edu/seminar-series/



History & Background

**Survey Basics** 

**Creating Surveys** 

**Distributing Surveys** 

**Tracking Surveys** 

**Survey Termination** 

**Advanced Features** 

**Smart Devices** 

Wrap Up

HISTORY & BACK-GROUND

Who is the CRI?

What is REDCap?

REDCap History

#### **CENTER FOR RESEARCH INFORMATICS**





#### **ACQUIRE DATA**

Explore clinical data available for research and make a data request.

Clinical Research Data Warehouse Cohort Discovery



#### **ANALYZE DATA**

We offer high-performance computing and advanced bioinformatics analysis for the most complex datasets.

Bioinformatics Core
High Performance Computing
Computing Resources



#### STORE DATA

Our storage is secure, standards-compliant, and backed up daily.

CRI Data Storage



#### MANAGE DATA

Manage studies, surveys, and databases for research.

REDCap

Clinical Trials Informatics



#### FIND A CUSTOM SOLUTION

Learn more about the CRI's tailor-made research solutions.

Custom Applications



### WHAT IS REDCAP?

Web-based
software used
to create and
manage research
databases and
participant
surveys.

**Developed as a**tool to help
researchers collect
and manage data
effectively and
responsibly.

#### **REDCAP HISTORY**

THEN

2004: Developed at

Vanderbilt

2006: Global consortium

2010: University of Chicago

2011: Center for Research

**Informatics** 

2012: REDCap at UChicago





## Worldwide: MON

4080 institutions

137 countries

888,000 projects

1,200,000 users

**UChicago:** 

6,100 projects

6,018 users





What is a Survey?

Survey Respondents vs Project Users

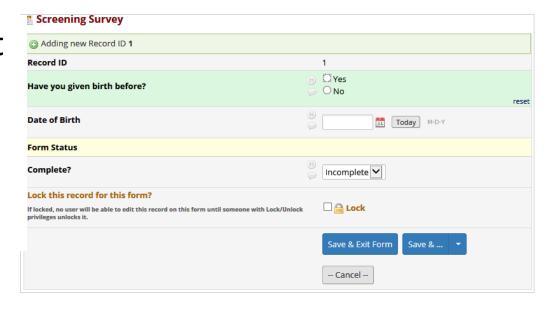
Survey User Rights

#### WHAT IS A SURVEY?

A REDCap survey is a "public" version of a (form) instrument that is completed by a study participant without having to log into REDCap.

That same instrument can also be used by the study team as a data entry form when logged into REDCap.

Screening Survey		Resize font:
Please complete the survey below. Thank you!		
Have you given birth before?	○ Yes ○ No	reset
Date of Birth	Today M-D-Y	
	Submit	



#### SURVEY PARTICIPANTS vs PROJECT USERS

# SURVEY PARTICIPANTS

People who submit data through a survey.

Can only submit data via survey links.

Can never see one another's data.

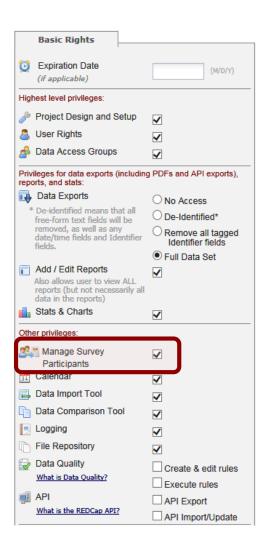
# PROJECT USERS

Must login to see what was submitted by participants.

Can send surveys links.

Can track who has or has not responded.

#### USER RIGHTS FOR MANAGING SURVEYS



To allow a study team member to manage surveys (add participants, send emails, etc), assign them the user right:

**Manage Survey Participants** 

#### USER RIGHTS FOR EDITING SURVEYS



To allow a study team member to edit survey responses or delete surveys, assign them the user right called:

**Edit Survey Responses** 

CREATING SURVEYS

Creating a Survey

**Enabling the Survey** 

**Survey Settings** 

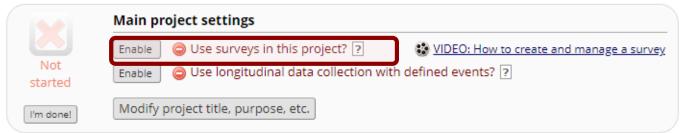
**Testing Surveys** 

Multiple Surveys

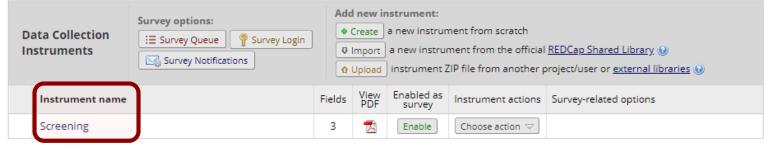
Longitudinal Surveys

#### CREATING AND ENABLING A SURVEY

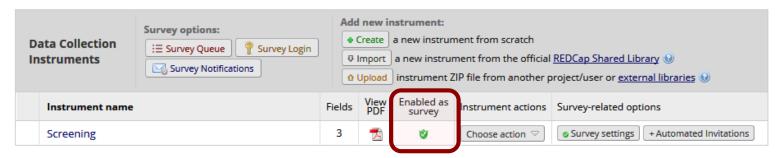
Enable the survey feature (Project Setup tab).



Create the instrument.

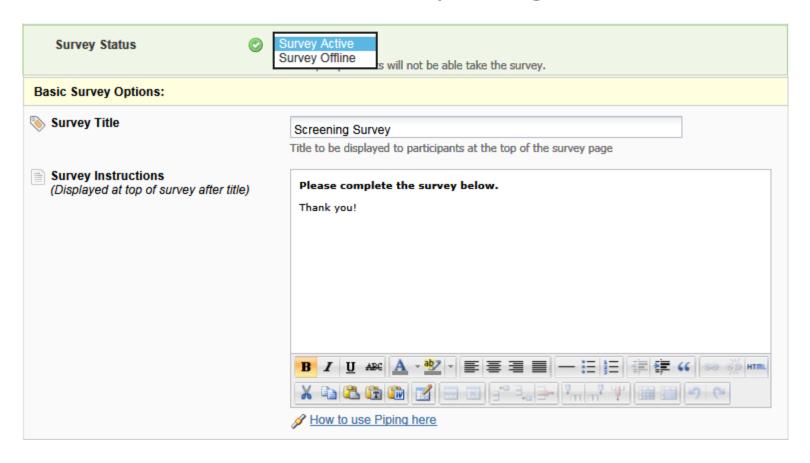


Because the instrument as a survey.



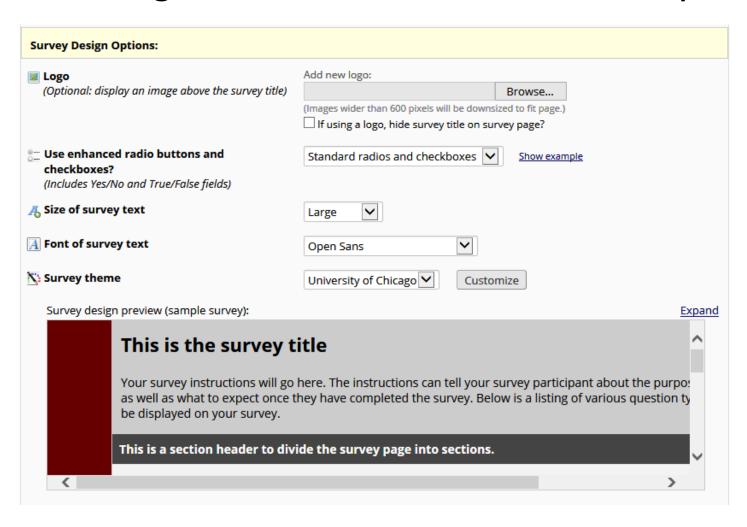
### SURVEY SETTINGS

Set the status, title, and opening instructions.



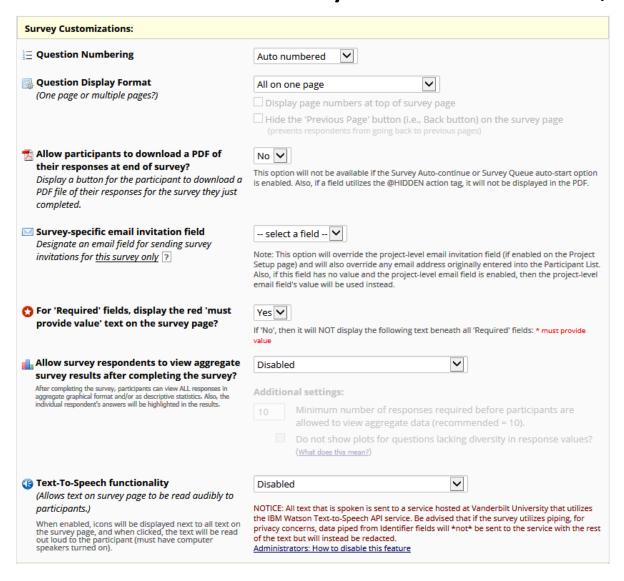
#### SURVEY SETTINGS – DESIGN OPTIONS

Add a logo, customize the text and survey theme.





### Select various survey customizations, as needed:



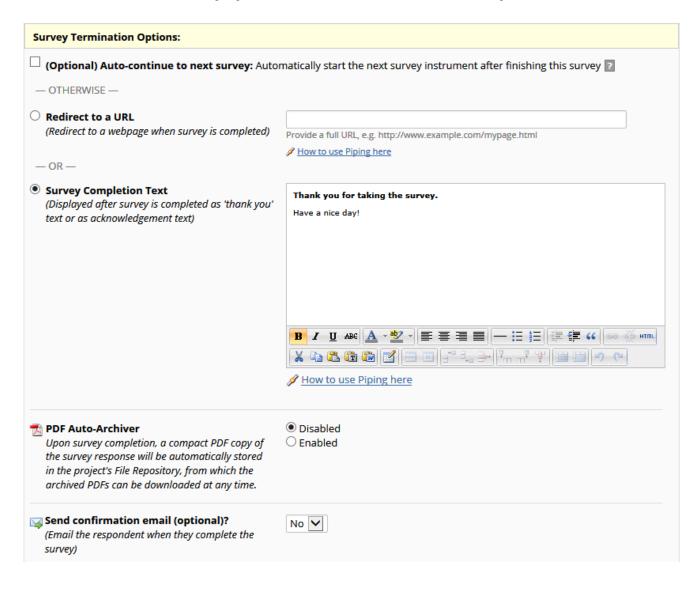
#### SURVEY SETTINGS – ACCESS

## Set response limits, completion time limits, expiration date, and the Save&Return options.

Survey Access:	
Response Limit (optional)  (Maximum number of responses to collect.  Prevents respondents from starting the survey  after a set number of responses have been  collected.) ?	(e.g., 150) If left blank, the response limit will not be enforced.  Will include partial and completed responses  Custom text to display to respondent on survey when limit is reached:  Thank you for your interest; however, the survey is closed because the maximum number of responses has been reached.
(The amount of time that each respondent has to complete the survey based on when they were initially sent the survey invitation. Note: This feature excludes public survey links.)	days hours minutes  If the respondent loads the survey after this time has passed, it will not allow them to begin or continue the survey. (If all are left blank, the time limit will not be enforced.)
Survey Expiration (optional) (Time after which the survey will become inactive.) ?	M/D/Y H:M  The time must be for the time zone <b>America/Chicago</b> , in which the current time is <b>07/10/2019 13:43</b> .
Allow 'Save & Return Later' option for respondents? (Allow respondents to leave the survey and return later.)	No Allow respondents to return without needing a return code Allow respondents to return and modify completed responses

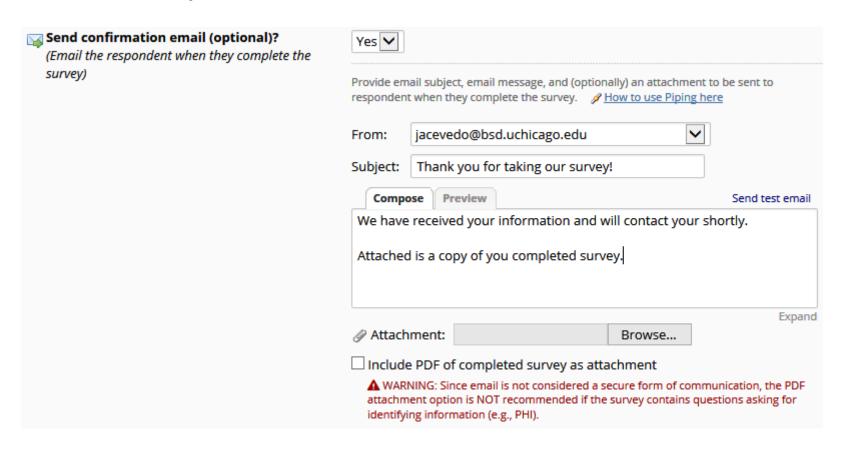
#### SURVEY SETTINGS – TERMINATION

Set what happens after survey is submitted.



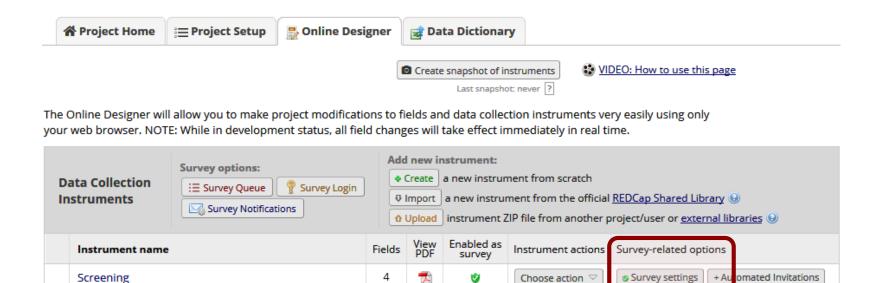
#### SURVEY SETTINGS – CONFIRMATION

## Send an optional confirmation email.



## EDITING SURVEY SETTINGS

# To edit your survey settings, click on **Survey Settings** under **Survey-related options**.



### TEST! TEST! TEST!

- Testing is CRITICAL!
- To test your survey, send a link to yourself in the same method as you plan to send a link to a respondent.
- Take your survey a few times to make sure the instructions, format, and termination options work as needed.
- Export test data to check on data analysis, and modify survey questions if needed.
- Once testing is complete, request the project be moved to production.
- DO NOT send out survey until then!

## **MOVE TO PRODUCTION**

#### Move Project To Production Status?



Are you sure you wish to leave the DEVELOPMENT stage? If you proceed, the project will be moved to PRODUCTION status so that real data may be collected. If you select the 'Delete ALL data' option below, all current collected data, calendar events, and uploaded documents will be deleted, otherwise all will remain untouched as the project is moved to production.

→ Have you checked the Check For Identifiers page to ensure all identifier fields have been tagged?

#### Keep existing data or delete?

- Keep ALL data saved so far. (0 records)
- Delete ALL data, calendar events, documents uploaded for records/responses, survey responses (if applicable), and any logging events pertaining to data collection.

Once in production, you will not be able to edit the project fields in real time anymore. However, you can make edits in Draft Mode, which will be auto-approved or else might need to be approved by a REDCap administrator before taking effect.

YES, Move to Production Status

Cancel

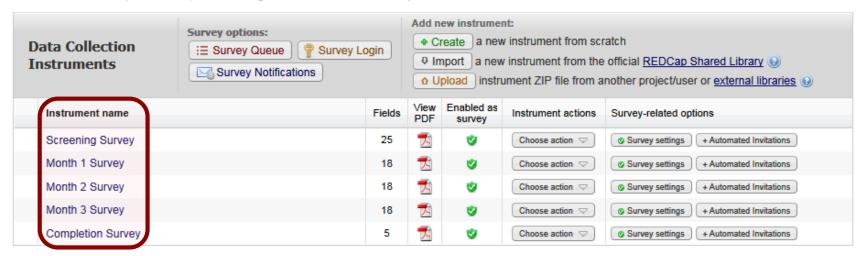


## Create multiple surveys in the same project.



#### VIDEO: How to use this page

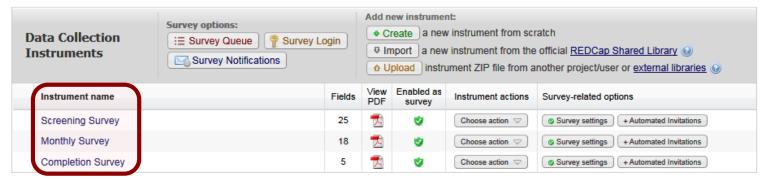
The Online Designer will allow you to make project modifications to fields and data collection instruments very easily using only your web browser. NOTE: While in development status, all field changes will take effect immediately in real time.



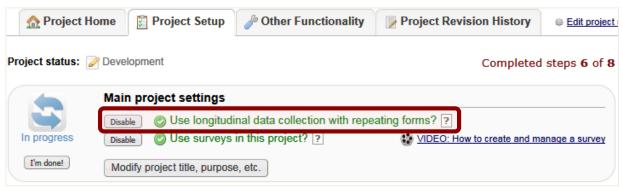
### LONGITUDINAL SURVEYS

Instead of creating the same survey as multiple instruments, the survey can be made repeatable.

Setup the survey instruments.

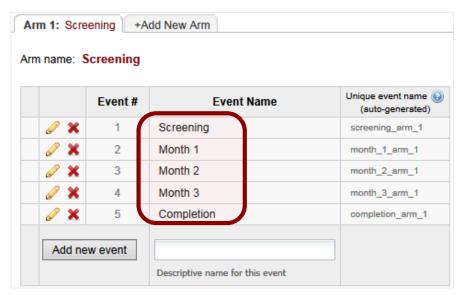


Enable the longitudinal feature.



### LONGITUDINAL SURVEYS

**3** Setup the events.



4 Assign the surveys to the events.

Data Collection Instrument	Screening (1)	Month 1 (2)	Month 2 (3)	Month 3 (4)	Completion (5)
Screening Survey (survey)	<b>V</b>				
Monthly Survey (survey)		4	4	4	
Completion Survey (survey)					~

DISTRIBUTING SURVEYS

Public Survey Link vs Participant List

How to use the Public Survey Link

How to use the Participant List

#### PUBLIC SURVEY LINK VS PARTICIPANT LIST

#### **PUBLIC SURVEY LINK**

Participant emails unknown beforehand.

Participants all use the same survey link.

Emails sent via Outlook, not within REDCap.

Great for listservs or posting on flyers or websites.

#### PARTICIPANT LIST

Participants emails known beforehand.

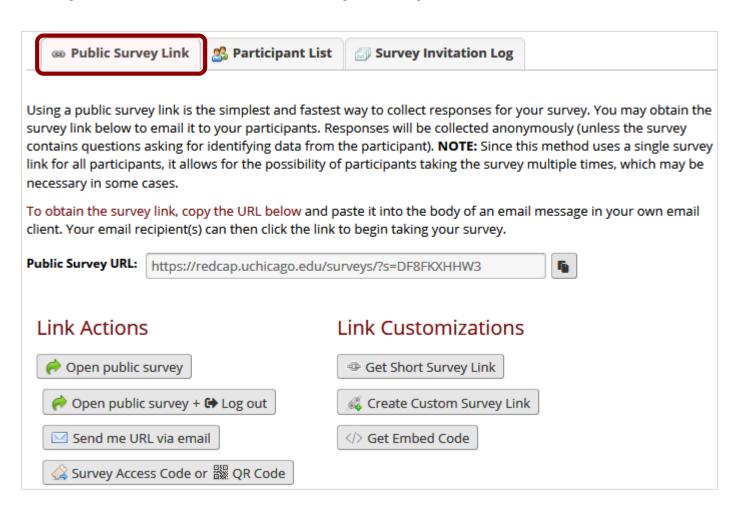
Each participant receives unique, one time use link.

Emails sent through REDCap to participant email address.

Can track who has or has not responded.

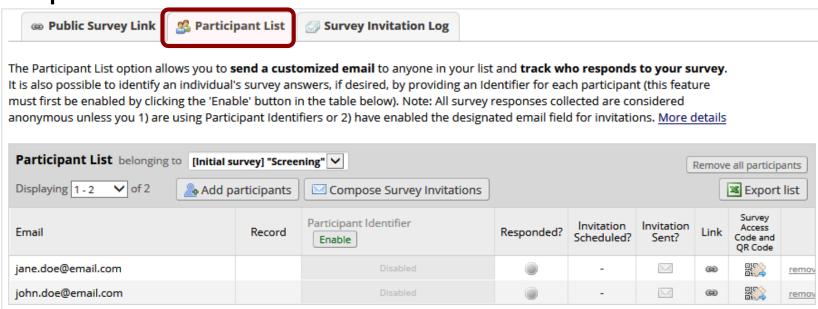
#### PUBLIC SURVEY LINK

The **Public Survey Link** is the simplest and fastest way to collect survey responses.

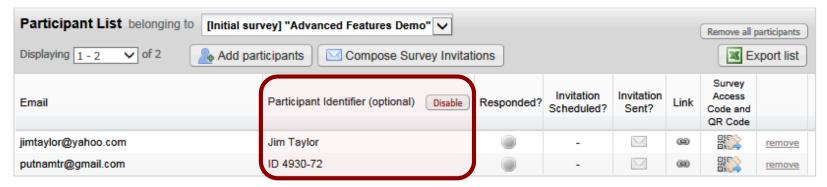


## PARTICIPANT LIST

The **Participant List** allows for emailing the survey to your participants, and keeping track of responses.



### PARTICIPANT IDENTIFIERS

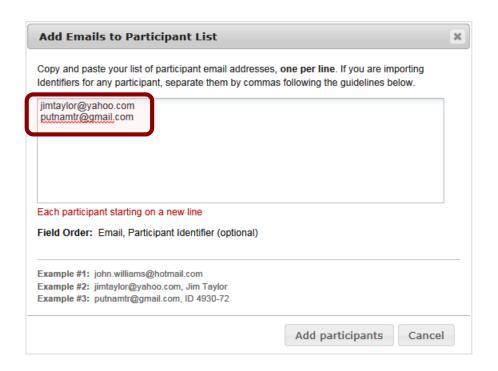


- To keep the survey anonymous, don't enable the Participant Identifier feature.
- To make the survey non-anonymous, enable the Participant Identifier feature.
- The Participant Identifier may be the participant's name, an ID number, or whatever you would like.
- It is not the same as the project's main primary identifier (Record Number, Record ID, Study ID, MRN).
- The Participant Identifier is can be exported along with the data.

#### ADDING PARTICIPANTS TO PARTICIPANT LIST

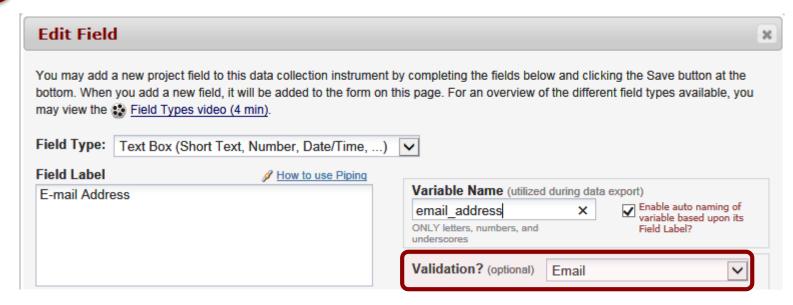
There are different ways of adding participants' email addresses to the **Participant List**:

- For few participants, manually type in.
- Por many participants, cut-and-paste in.



## DESIGNATE AN EMAIL FIELD

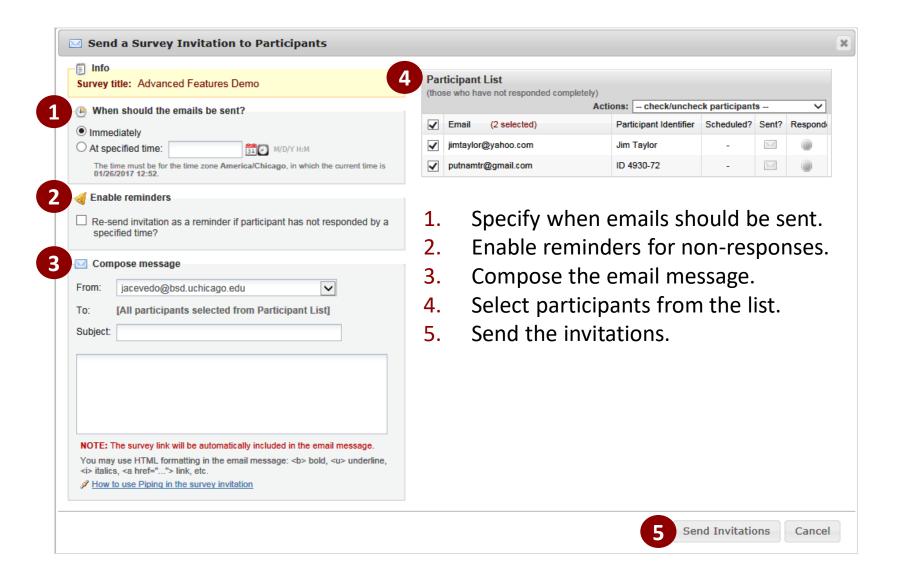
Setup the email field with email validation.



Enable the feature on the Project Setup tab.

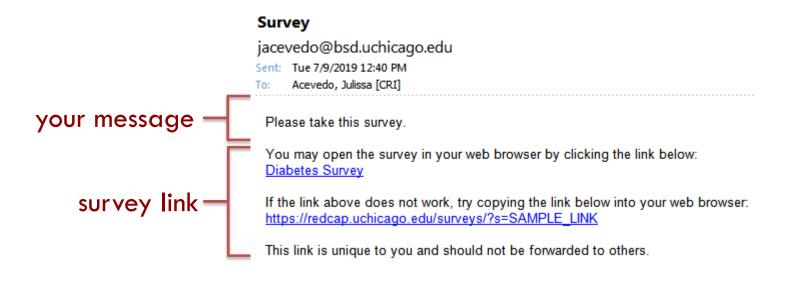


### COMPOSE SURVEY INVITATIONS



#### SURVEY INVITATION MESSAGE AND LINK

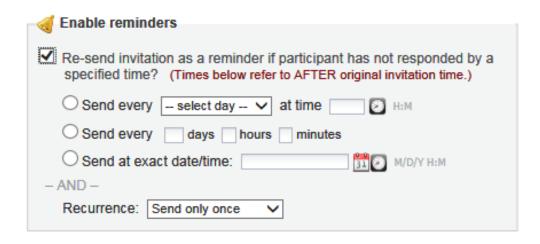
A section for the unique survey link will be appended to the end of your email message:



**NOTE:** You may modify or remove any text you wish above but make sure you include [survey-link] and [survey-url] in the text or else the participant will not have a way to take the survey.

#### NON-RESPONSE REMINDERS

- Survey reminders can only be setup while composing survey invitations.
- They cannot be setup after invitations have been sent.
- They can be sent on specific days of the week, or every X days, or at an exact date/time.
- Up to 2-5 reminders can be scheduled.



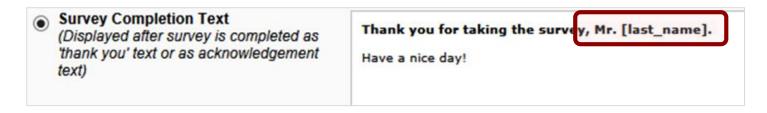
# FIELD PIPING

The Piping feature allows you to pipe previously collected data to customize the survey invitation

greeting...

From:	jacevedo@bsd.uchicago.edu
To:	[All participants selected from Participant List]
Subject:	2017 Survey
	. [last_name], ake the following survey.
riease	ou.

...or the survey completion text.





Participant List

Survey Log

Partial Responses

**Editing Responses** 

**Survey Timestamps** 

# TRACKING SURVEYS VIA THE PARTICIPANT LIST

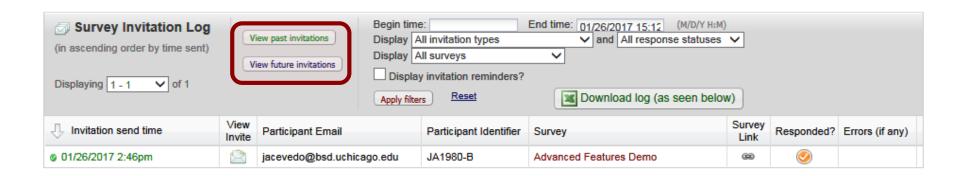
Surveys responses can be tracked on the **Participant List** according to:

- Complete participant submitted the survey
- Incomplete participant started but hasn't submitted the survey
- No Action participant has not started the survey

Participant List belonging to [Initial survey] "Advanced Features Demo"										
Displaying 1 - 3 of 3										
Email	Participant Identifier (optional) Disable	Responded?	Invitation Scheduled?	Invitation Sent?	Link	Survey Access Code and QR Code				
jacevedo@bsd.uchicago.edu (ID 1)	JA1980-B	<b>Ø</b>	-	<b></b>	œ					
jimtaylor@yahoo.com	Jim Taylor		-	$\sim$	660	05F)	remove			
putnamtr@gmail.com (ID 2)	ID 4930-72	Ø	-	$\sim$	œ		remove			

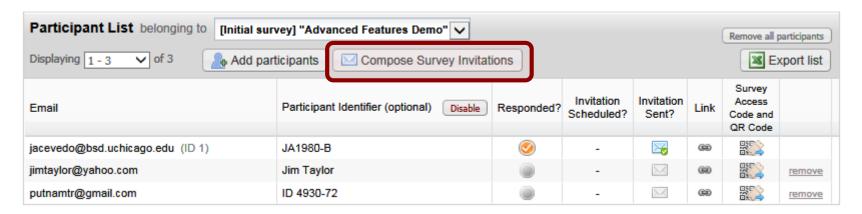
# TRACKING SURVEYS VIA THE SURVEY INVITATION LOG

- The Survey Invitation Log lists survey invitations that have already been sent or have been scheduled to be sent to survey participants.
- You may even view the invitation email itself by clicking the icon in the 'View Email' column.

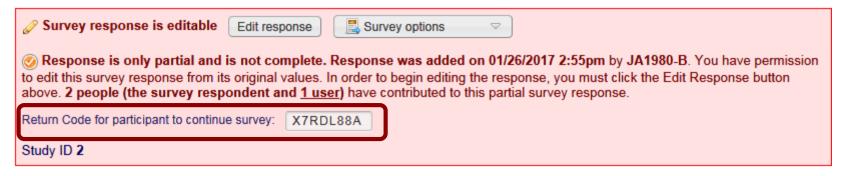


# PARTIAL RESPONSES

For **Partial Responses**, you can use **Compose Survey Invitations** from the **Participant List** to send them a reminder email.

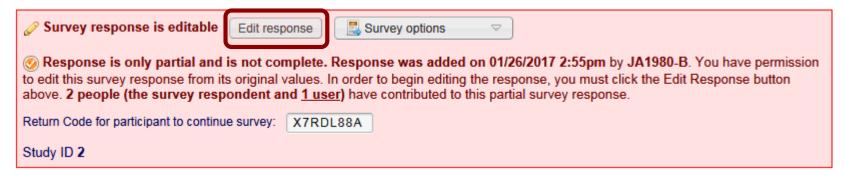


If participants don't remember their **Save-and-Return** code, you can retrieve it from their survey record.

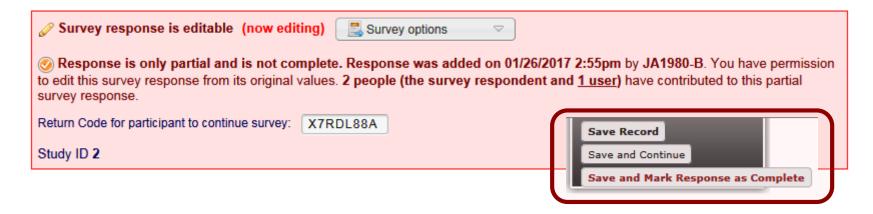


# EDITING RESPONSES

- User must have Edit Survey Responses user rights.
- To edit a response, open record and click Edit Response at top of survey.



Make the changes, and save the record.



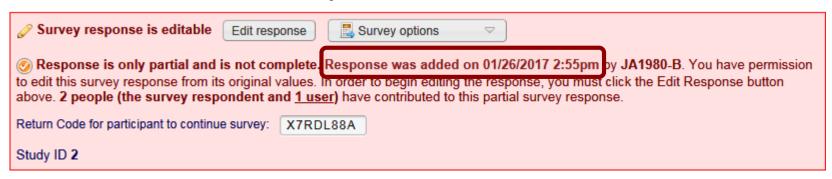
# SURVEY TIMESTAMPS

Survey responses get timestamped when the survey's **Submit** button is clicked on by the participant.

Timestamps appear on the record selector.

Complete Responses (6)	select response	<b>•</b>		
	select response	1		
	1	ľ		
	2 - 2014-08-06 12:07pm			

As well as the survey record.



They also be included in exports and reports.

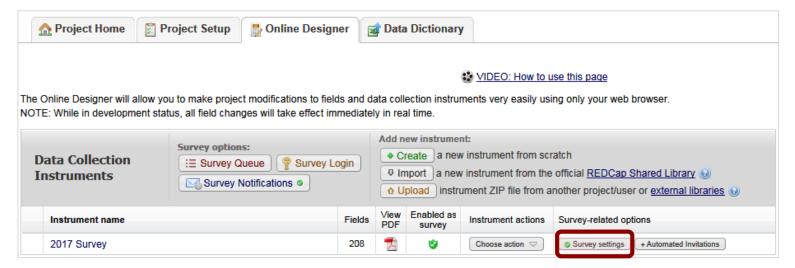


# Inactivate a Survey

Inactivate a Project

# INACTIVATE A SURVEY

At Online Designer, click on Survey Settings.



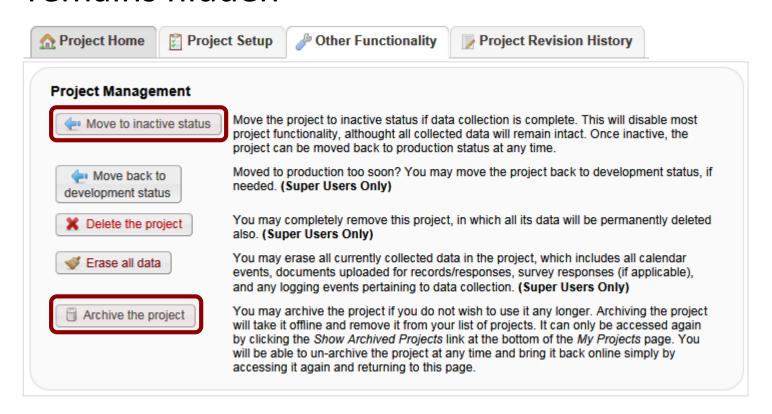
2 At Survey Status, set to Survey Offline.



# INACTIVATE OR ARCHIVE A PROJECT

# Go to **Other Functionality** tab, and either:

- Move to inactive status data collection over, remains visible
- Archive the project entire study is over, remains hidden



# ADVANCED FEATURES

**Stop Actions** 

**Notifications** 

**Action Tags** 

**Automated Surveys** 

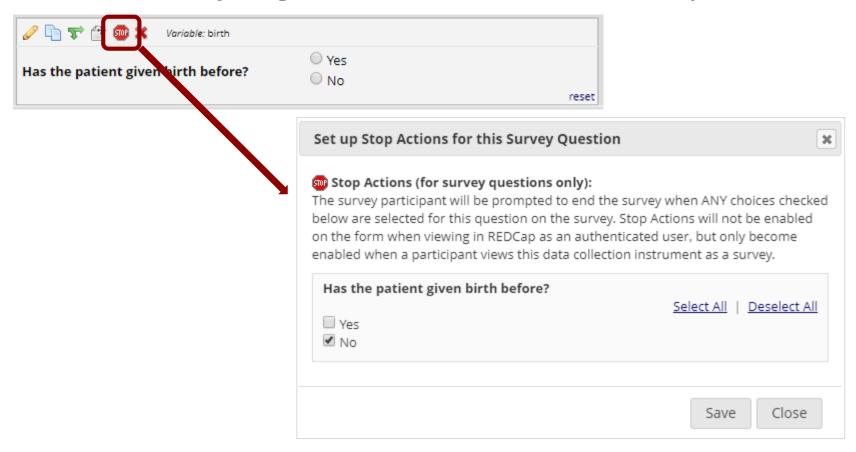
Survey Queue

Survey Logins

Survey Wizard

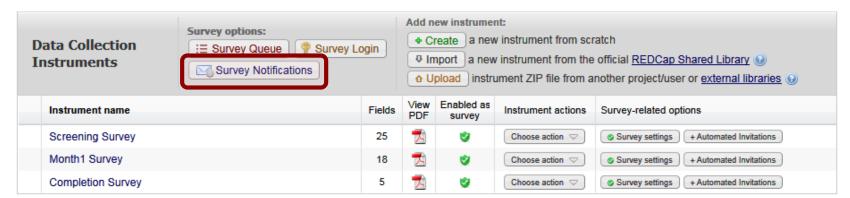
# SURVEY STOP ACTION

Stop Actions prompt the participant to end the survey when certain field choices are selected. Only selection fields have this option. Click the **Stop Sign icon** and select the stop choice.

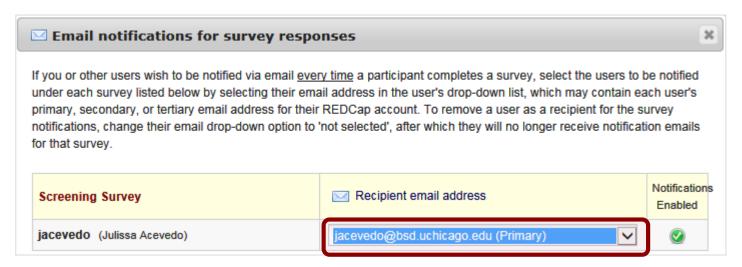


# SURVEY NOTIFICATIONS

Go to Online Designer and click on Survey Notifications.

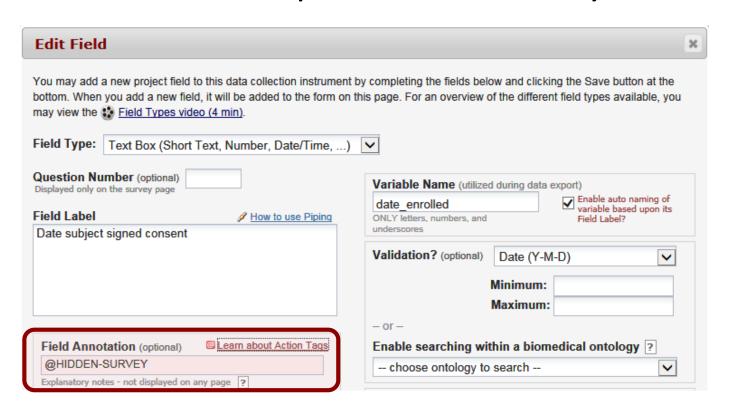


2 Select the survey and select the email address.



# ACTION TAGS

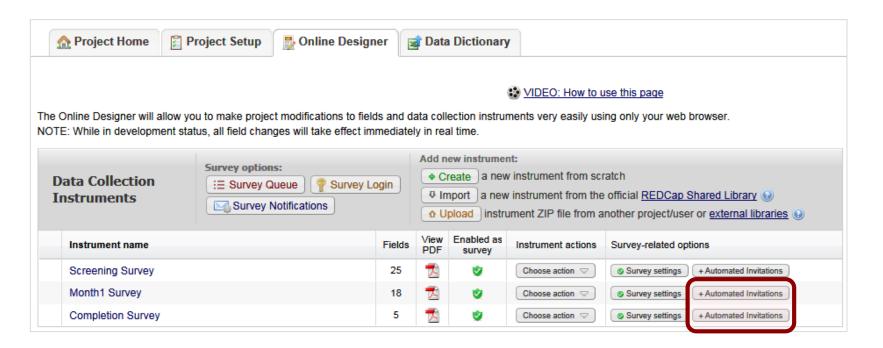
Action Tags are special terms that begin with the '@' sign that can be placed inside a field's Field Annotation to add special functionality.



### AUTOMATED SURVEY INVITATIONS

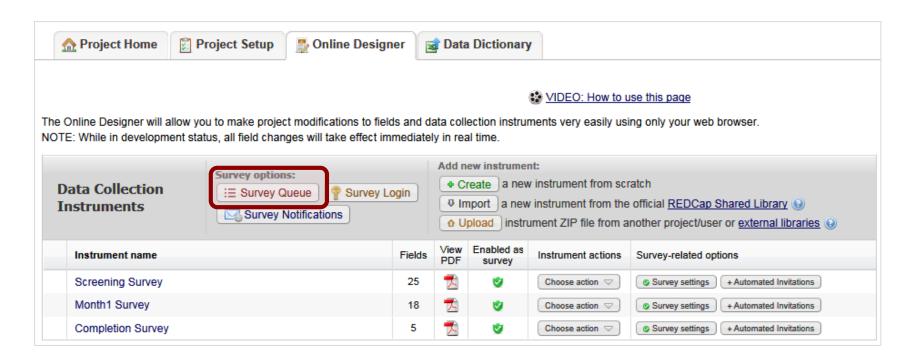
ASIs are similar to composing email invitations, but instead the invites are sent automatically when:

- An earlier survey is completed -or-
- A condition is met



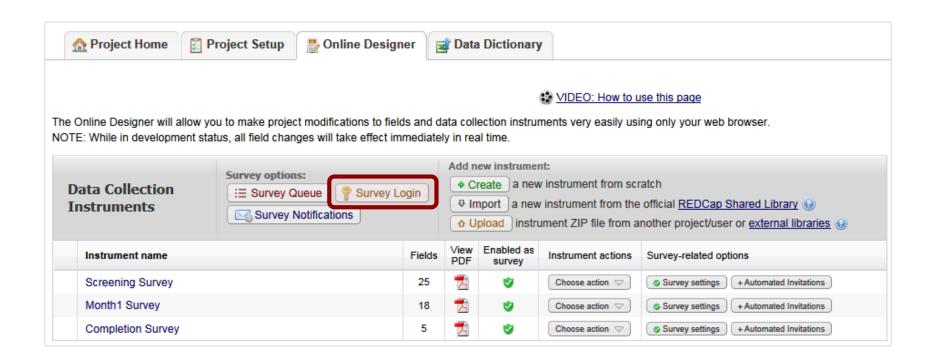
# SURVEY QUEUES

The **Survey Queue** is a survey packaging option. It allows for chaining together multiple surveys like a to-do list (using optional logic too).



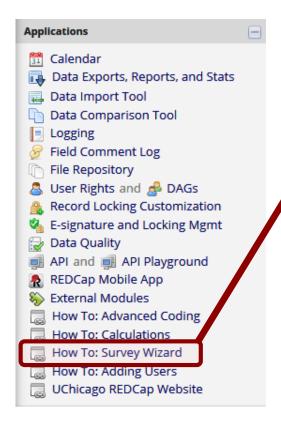
# SURVEY LOGINS

The **Survey Login** requires participants to log into the survey before viewing it and completing it.

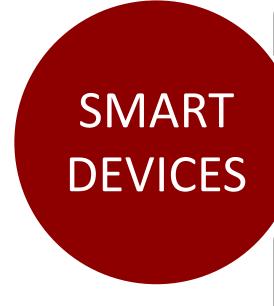


# SURVEY WIZARD

The **Survey Wizard** is located under the Applications menu. This survey is designed to help you work through the steps of setting up and selecting the right distribution model of survey.







# **Smart Phones**

**Tablets** 

Mobile App

# SMART DEVICES

REDCap is compatible with tablets and smart phone (iOS and Android).

Simply navigate to <a href="https://redcap.uchicago.edu/">https://redcap.uchicago.edu/</a>



# **MOBILE APP**

# **Offline Data Collection** (no/poor internet connectivity)



**REDCap** 

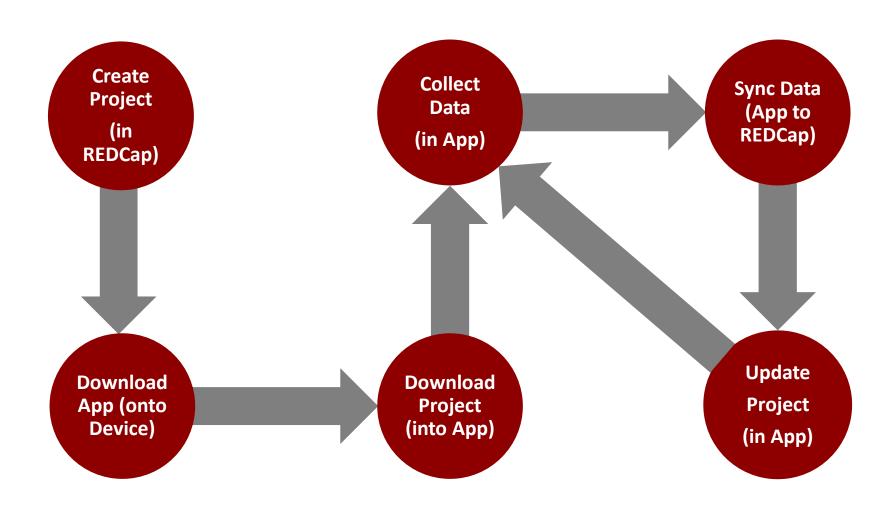


**App Store** 

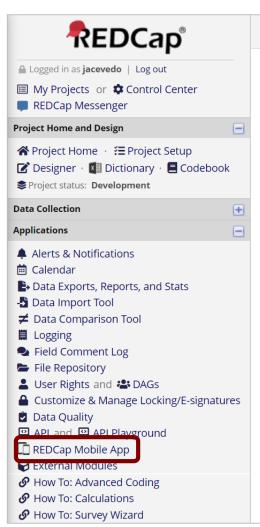


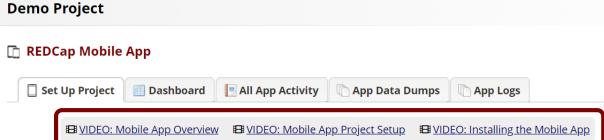
Google play

# MOBILE APP - PROCESS



# MOBILE APP - SETUP





#### What is the REDCap Mobile App?

The REDCap Mobile App is an app that can be installed on an Android or iOS tablet or mobile device so that data may then be collected in an offline fashion on that device. At some point later on, it may then be synced back to this project on the REDCap server. The app is most useful when data collection will be performed where there is no Internet service (e.g., no WiFi or cellular service) or where there is unreliable Internet service.



Once a user in this project is given 'REDCap Mobile App' privileges, they can navigate to the mobile app page on the left-hand menu and use it to set up this project inside the mobile app on their device. Once the mobile project is set up on the device, the user can collect data (which is stored locally on the device), and then at some point, sync that data back to this project on the REDCap server.

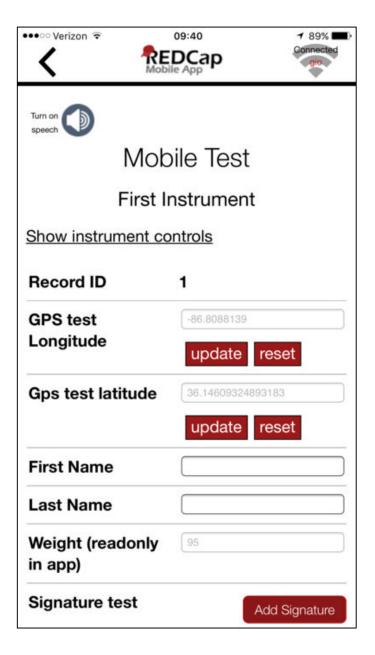
#### STEP 1: Download the app on your device

You must first download the REDCap Mobile App on your iOS, Android, or BlueStacks (Android emulator) device by clicking the appropriate icon below, or alternatively, if you are not currently on a mobile device, you can search the App Store or Google Play Store for 'REDCap' on your mobile device to find the app there to download. The app is available for the following platforms: iOS 6.0 or later (iPhone 4 and up, iPad 2 and up) and Android 4.3 or later (phones and tablets).

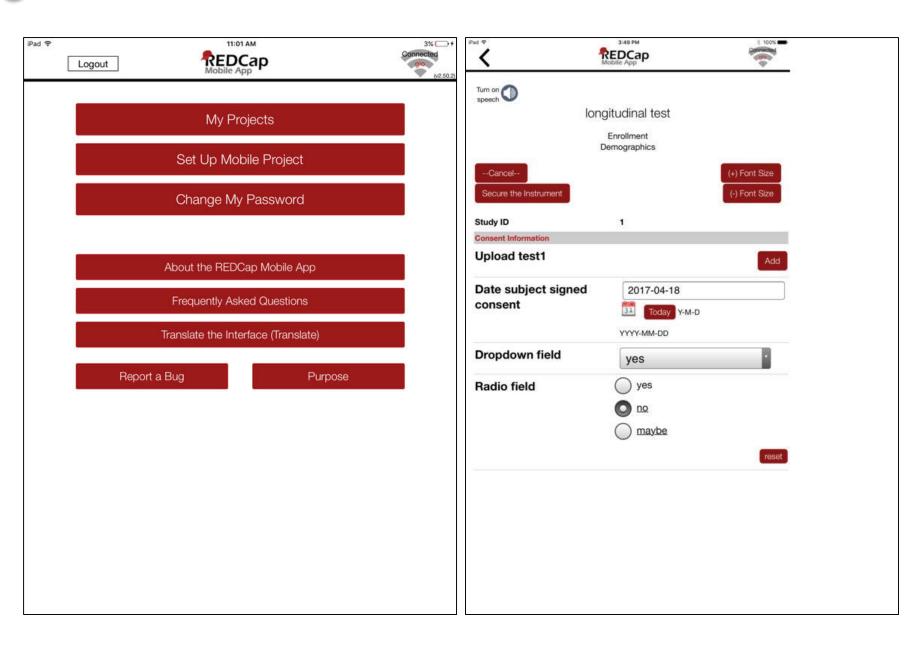


# MOBILE APP - IPHONE





# MOBILE APP - IPAD



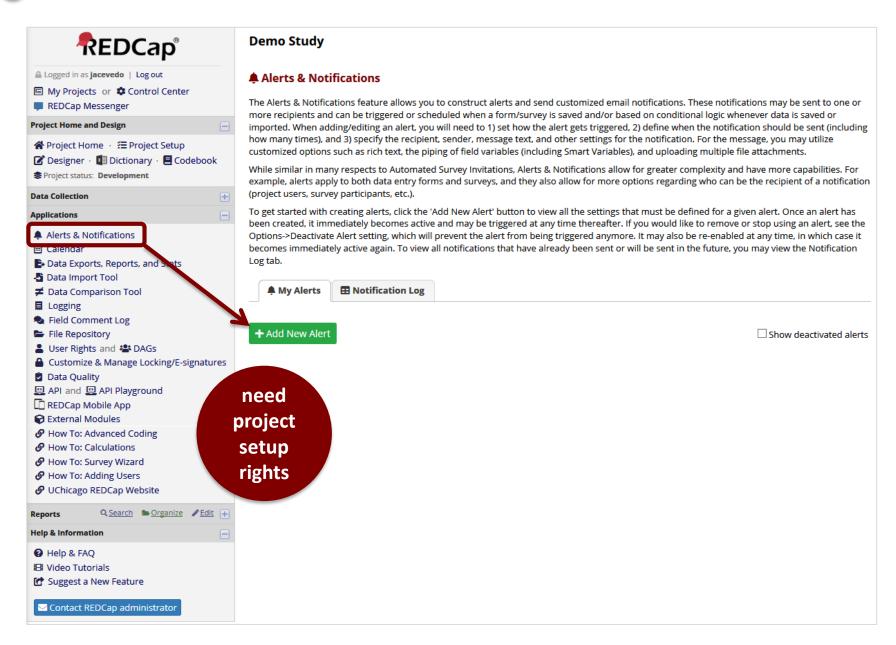


# Alerts & Notifications

Missing Data Codes

Rich Text Editor

# ALERTS & NOTIFICATIONS



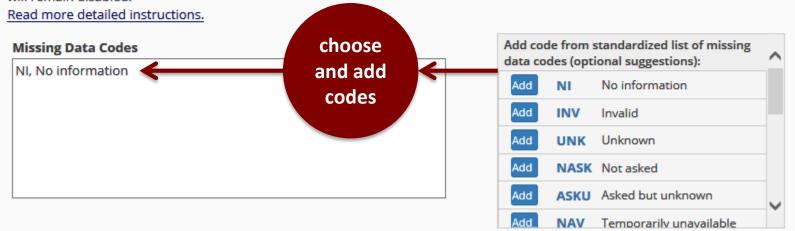


### **Project Setup > Enable optional modules > Additional Customizations**

#### Additional customizations

#### Missing Data Codes: Set up your missing data codes for this project

Fields that have a blank/missing value may be marked with a custom 'Missing Data Code' to note why the value is blank. These missing codes may be used to aid in data analysis by specifying why a field lacks a value. To enable this feature below, enter both the codes AND their labels for all the categories of missing data that you wish to use in this project. The missing codes should be coded just like the choices of a multiple choice field with *code* + *comma* + *label*, in which the codes can only have letters, numbers, dots, dashes, and underscores (e.g., '-999, Not asked' or 'UNK, Unknown'). If no codes are entered, this feature will remain disabled.





# Previously...

### **Edit Field** You may add a new project field to this data collection instrument by completing bottom. When you add a new field, it will be added to the form on this page. For you may view the Eli Field Types video (4 min). Field Type: Multiple Choice - Radio Buttons (Single Answ Ouestion Number (optional) Displayed only on the survey page Field Label Use the Rich Text Editor ? I encourage my child to look forward to the meal. <i><font color="green">Animo a mi hijo(a) para que este emocionada para la comida.</font></i> <i><font color="blue">J'encourage mon enfant à attendre avec impatience le repas.</font></i> **HTML** needed

# Today...

#### **Edit Field**

You may add a new project field to this data collection instrument by completing bottom. When you add a new field, it will be added to the form on this page. For you may view the 🖽 Field Types video (4 min).

Field Type: Multiple Choice - Radio Buttons (Single Answ ✓

Question Number (optional)
Displayed only on the survey page

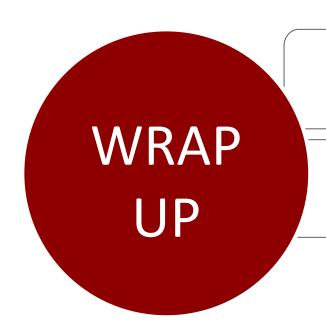


I encourage my child to look forward to the meal.

Animo a mi hijo(a) para que este emocionada para la comida.

J'encourage mon enfant à attendre avec impatience le repas.

no HTML needed



Response Rates

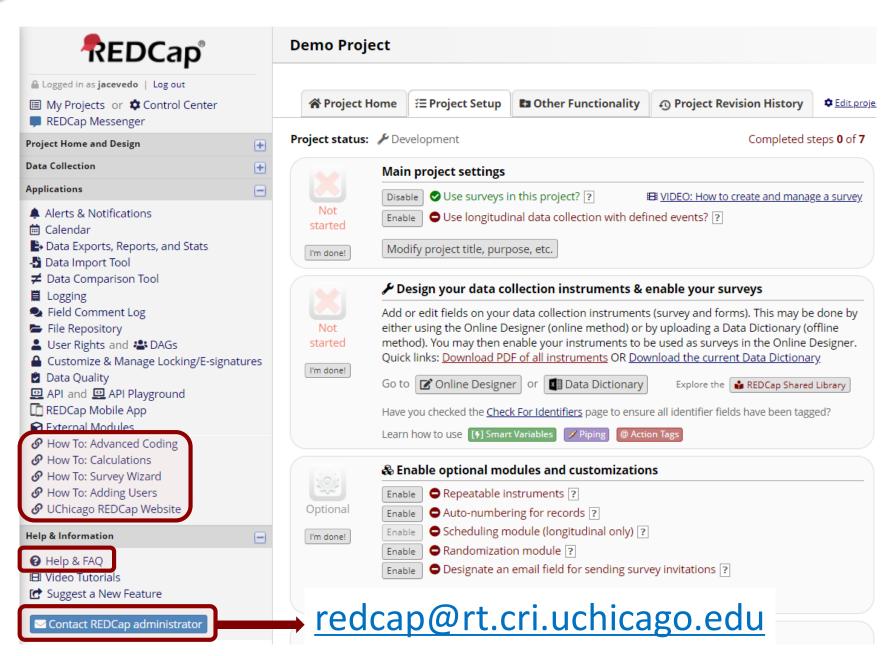
Help Resources

# RESPONSE RATE ADVICE

- TEST, TEST, TEST!
- Keep it short!
- Keep instructions simple!
- Keep your wording brief!
- Include "who to contact"!
- Guarantee confidentiality (if de-identified)!
- Limit demographic questions (if identified)!
- Limit open-ended text questions!
- Use radio buttons vs drop-downs!
- Use graphs, pictures, videos!
- Use Save-and-Return option!
- Use survey reminders!
- Offer incentives!



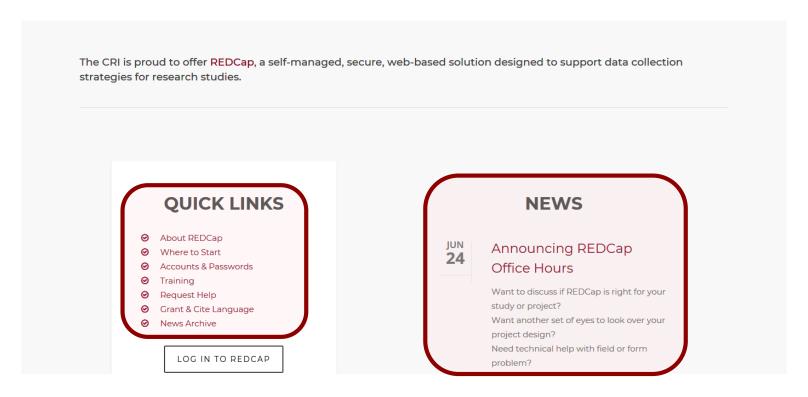
# HELP RESOURCES





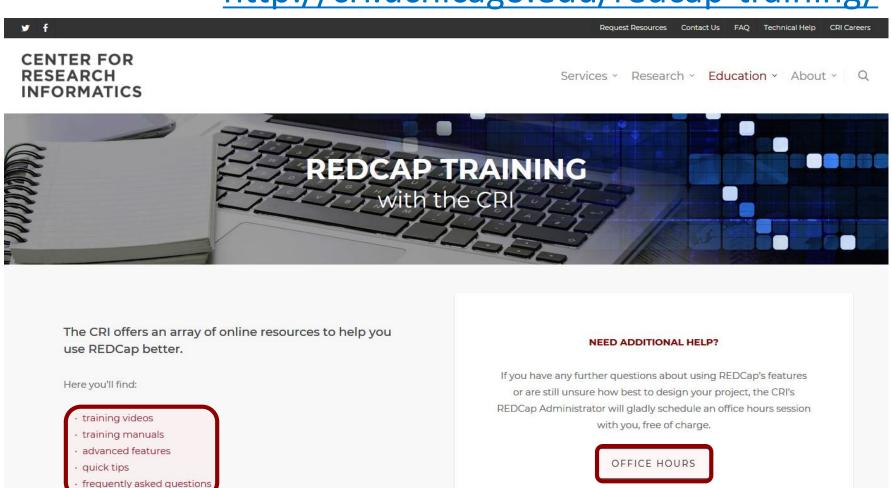
# http://cri.uchicago.edu/redcap/





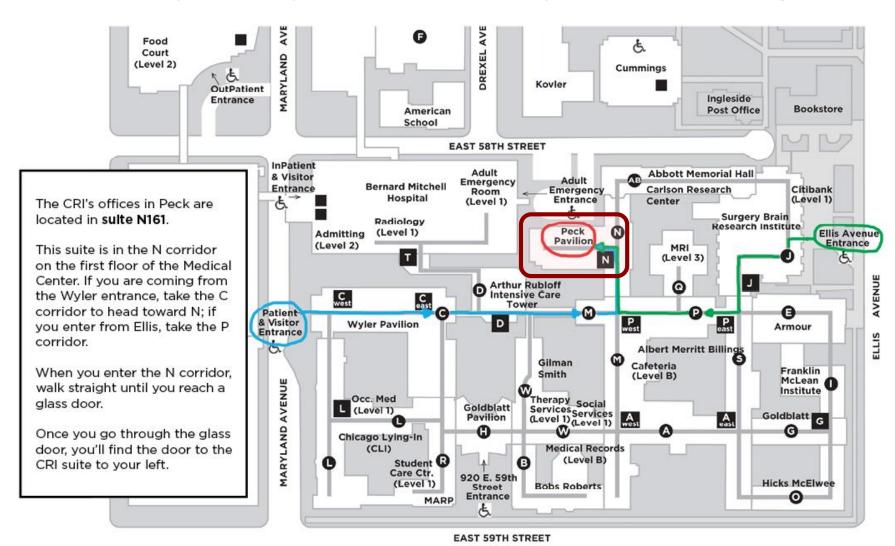
# ADDITIONAL HELP

# http://cri.uchicago.edu/redcap-training/



# OFFICE HOURS

# Wednesdays, 12-3pm, N161, redcap@rt.cri.uchicago.edu









# cri.uchicago.edu