



REDCap: An overview

Research Data Collection & Surveys

Dr. Sarah Hopkins Centre for eResearch

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What to expect from this session

* — * — * — * — * — * — * — * — * — * —	Take the amazing ResBaz REDCap survey	(5 mins)
R	Brief overview of REDCap	(20 mins)
	Collecting and managing research data	(25 mins)
9.	Questions!	(10 mins)



Let's get started with a survey!

Scan the QR code



OR

1. Go to:

https://redcap.auckland.ac.nz/surveys/

2. Enter the code:

FPTWEK4JH





REDCap is a secure web application designed to support online surveys and databases for research studies.

With REDCap, you can:

- Enter data online/offline
- Design and distribute surveys
- Collect and then de-identify participant information
- Track data entry and revision history
- Export data to common formats and software for analysis and preservation





Ideal for sensitive research data, including personally identifiable data *Consent *Online surveys *Multi-site studies *Clinical trials

Advantages of REDCap:

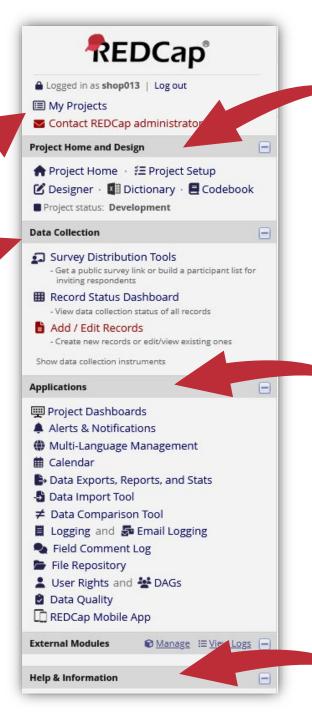
- Easy to learn and use, with helpful instructional videos
- Customisable workflow that lets you decide who has access to what and how much access and control they have
- Web-based access, online/offline data collection, access for multi-site collaborations
- Consistent and accurate data entry, data quality checks
- Data are stored securely, backed up and software maintained
- Enables data sovereignty obligations

Navigating REDCap

My Projects

Data Collection

- Record Status Dashboard
- Add / Edit Records
- (Survey Distribution Tools)



Project Home & Design

- •Project Home | Project Setup
- Designer | Dictionary |Codebook
- Project Status (development / testing / production)

Applications

- Project Dashboards
- Data Exports, Reports and Stats
- Logging
- •File Repository
- User Rights and DAGs

Help & Information





The **Online Designer** enables users to create & modify data collection instruments (forms & surveys).

Key features:

- A data collection instrument contains a group of fields
- All Fields are described by attributes
- The REDCap shared library contains pre-formatted instruments curated by Vanderbilt University
- The Data dictionary enables bulk editing of fields within your project
- The Codebook is a read-only version of the Data Dictionary for quick reference
- Each instrument starts as a Form but can become a Survey





Key features:

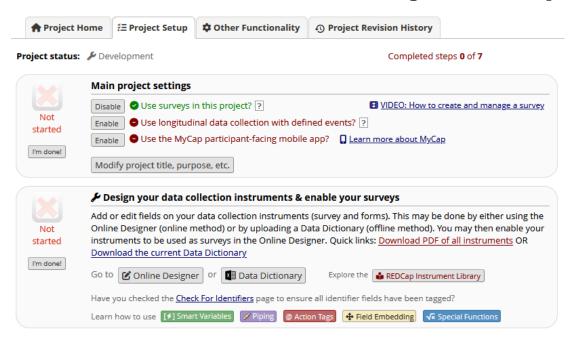
- Use Branching logic to hide fields/questions and to collect data from a subset of participants
- Use Calculated fields to create a new field from existing data (using syntax)
- Use piping to personalise survey responses (e.g., Kia ora [first_name])
- Survey features:
 - anonymous or send participants a link and track completion
 - optional text-to-speech
 - participants can download a PDF of their responses
- Use a Project dashboard to share dynamic content





Create your project in **development** and use the pre-configured checklist before moving to **production**.

1. Use the checklist on Project Setup



2. Move project to production



3. Mark as completed







A record (participant) can have data or responses across more than one data collection instruments.

Key features:

Use Add / Edit Records to enter data

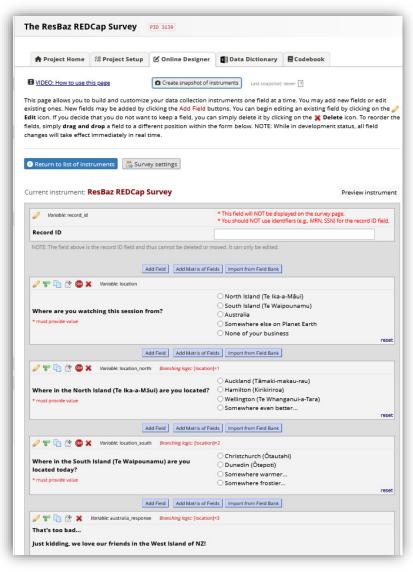
+ Add new record

- Record Status Dashboard displays all existing records/responses
 - A legend shows current record status
 - Field entries are logged, so you can see a history of any changes

	Bas	seline	4 Weeks	8 Weeks	6 Months	
Record ID	Exercise baseline	Exercise baseline				
<u>1</u>						
2				•		
<u>3</u>			<u>-</u>	•		
4						
<u>5</u>				•		
<u>6</u>				•	•	
7				•		
8				•		
9						
<u>10</u>				•		
<u>11</u>		•				

Design vs. Data Entry

Design mode



Data entry mode



ResBaz REDCap Survey		
Adding new Record ID 5.		
Record ID	5	
Where are you watching this session from?	North Island (Te Ika-a-Māuī) South Island (Te Waipounamu) Australia Somewhere else on Planet Earth None of your business	resi
U	○Yes	res
Have you used REDCap before? *must provide value	O No	
must provide value	, 0110	res
Do you have access to a REDCap instance in you	r organisation / Yes	
nstitution in?	○ No	
must provide value		res
How excited are you to learn new REDCap skills	today?	
must provide value		
0: not excited at all 5: mo	derately excited 10: the MOST EXCITED!	
Change the si	ider above to set a response	
Which of these best describes your current reser	Research technician or assistant - collecti	ng
must provide value	and/or processing research data Other	
	Business	res
	□ Engineering	
Which of these disciplines do you identify with?	Humanities (Arts, Education, Law)	
must provide value	Medical and Health Sciences	
	☐ Sciences	
	Something else	
	of hirth	
Enter a date that may (or may not) be your date	™ Today D-M-Y	
must provide value	Today D++Y	
rmust provide value	□ Today D-M-Y	
	□ Today D-M-Y	

User Rights and Permission



+ Add with custom rights

🏖 Assign to role 🔻

+ Create role

Add new users: Give them custom user rights or assign them to a role.

Add new user

— OR —

Assign new user to role

■ Upload

- You can add a user to your project that has an account at your workplace.
- Best practice is to create roles and then assign new users to a role (vs. assigning a user without a role).
- Create new roles: Add new user roles to which users may be assigned. A Role allows you to manage rights and Enter new role name permissions to a group of people who need the (e.g., Project Manager, Data Entry Person) same level of access (e.g., study coordinator, data entry).
- **Data Access Groups (DAGs)** limits user access to a group of records.

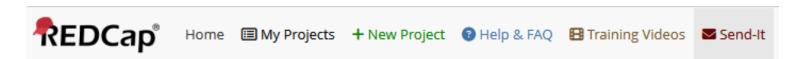
Role name (click role name to edit role)	Username or users assigned to a role (click username to edit or assign to role)	Expiration (click expiration date to edit)	Project Design and Setup	User Rights	Data Access Groups	Data Viewing Rights	Data Export Rights	Alerts & Notifications	Reports & Report Builder	Stats & Charts	Survey Distributior Tools
_	shop013 (Sarah Hopkins)	never	~	~	~	1 View & Edit	1 Full Data Set	✓	~	~	✓
Data Entry	[No users assigned]		×	×	×	1 View & Edit	1 Full Data Set	×	4	✓	×
Project Manager	[No users assigned]		~	V	✓	1 View & Edit	1 Full Data Set	✓	✓	✓	✓

What else can REDCap do?



Key features:

- Randomisation
- SMS
- Mobile App
- MyCap
- External Modules
- API
- Secure file sharing



Send-It

From:	s.hopkins@auckland.ac.nz
To: (recipient emails)	
	Separate email addresses with commas, semi-colons, or line breaks
Email subject: (optional)	
Email message: (optional)	
Expiration:	3 days V Specify the time after which the file will no longer be accessible for download
Select a file:	Browse No file selected. (Max file size: 1024 MB)
	Receive confirmation? Get an email notification informing you when your file has been downloaded by <u>each</u> recipient.
	Send It!

Getting help





- REDCap has built-in help on the Project Setup page and Online Designer
- Click on the Contact REDCap administrator link to send a question
- Search online and through REDCap for tutorial videos
- Many organisation offer services to create and manage complex databases and trials (usually on a cost-recovery fee basis)







dataservices@auckland.ac.nz

https://www.healthresearchplatform.auckland.ac.nz/

