

# HMS Research Computing REDCap Service

## OVERVIEW

Information Technology Research Computing  
Harvard Medical School  
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Information Technology 1

# Agenda

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- What is REDCap
- HMS REDCap Service Highlights
- REDCap Use Cases
- REDCap Features
- REDCap Usage
- Who is using REDCap
- Who Supports It
- How to Signup
- Questions

# What is REDCap

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- REDCap stands for 'Research Electronic Data Capture'.
- Secure web-based platform which provides researchers with an easy-to-use tool for the data management and survey tool for gathering, storing and managing electronic data.
- The free software was developed at Vanderbilt University and maintained by the REDCap consortium.
- Allows the researcher to choose and define their data elements.
- Software has a growing user base with many institutional partners in over 75 countries. The geographic distribution is concentrated in North America and Europe.

# HMS REDCap Service Highlights

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- Research Computing started providing this pilot service in mid-2018.
- The platform is hosted on Amazon Web Services (AWS).
- Approved for Data Security Level 4.
- User authentication uses HMS ID accounts and requires second-factor authentication via DUO.
- Supports PHI and PII data from HMS Research groups which requires an IRB but also supports other levels of data.
- No cost to use the system for qualified groups.
- Available to all HMS, HSDM and HSPH Quad-based Staff/Faculty/PostDocs.
- Survey subjects do not need an HMS ID to take a REDCap survey.
- HMS REDCap is NOT a HIPAA compliant service.



# REDCap Use Cases

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Collecting and tracking information and data from research studies.



Schedule Study Events (e.g. patient visits).



Conducting Surveys.



Record attestations for exceptions by creating survey forms. Sending them to employees/staff which then automatically creates a database as record.



Intake forms for new projects or studies.  
Offline data capture via Mobile app.



# REDCap Features

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## Fast and flexible

Conception to production-level survey/database in less than one day. No programmer needed.



## Build online surveys and databases quickly and securely

Create and design your project rapidly using secure web authentication from your browser. No extra software is required.



## Export data to common data analysis packages

Export your data to Microsoft Excel, SAS, Stata, R, or SPSS for analysis. Integration with Tableau via webhook.



# REDCap Features (continued)

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Audit trails: For tracking data manipulation and user activity.



Built-in project calendar to track events.



Scheduling module

Generates schedules for your project calendar like visits or



Ad hoc reporting tools

Create custom queries for generating reports to view or download.



Advanced features

Auto-validation, calculated fields, branching/skip logic, calculated fields and survey stop actions.



Available in multiple languages



# REDCap Usage

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PROJECTS: 145



ACTIVE USERS: 372

(as of 5/23/2022)



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# Who is using REDCap

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- The Family Van.
  - <http://www.familyvan.org/>



- Improving Maternal Health Measurement Capacity and Use (IMHM) Project at HSPH
- Clinical Research Studies at HMS, HSPH and HSDM.
- Contract Tracing Effort for COVID-19 support HSPH and DPH.



# Who Supports It

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The Research Computing Operations team supports the platform ensuring the system is up and running.



We provide provisioning of REDCap projects and basic support on application questions.



# How to Signup for Project

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- Visit our website for more and to sign up:  
<https://it.hms.harvard.edu/rc>
- Under Services -> Research Applications & Software.

Thank you

Questions?

Email us at:  
[rchelp@hms.harvard.edu](mailto:rchelp@hms.harvard.edu)