

Assignment 2

Overview

This assignment is based on the video demos in **Weeks 3 and 4** of the Coursera course on Data Management for Clinical Research. We recommend you **watch these videos before attempting the assignment**. The videos explain basic design principles for data capture forms and how to interact with the REDCap system.

Assignment 2 has two parts: Part A and Part B. You will need to complete both for full credit.

In **Part A**, you will implement a data collection form in REDCap (hosted at <https://www.datacourse.org>). The form specifications are provided to you and you will need to follow them exactly. You will build and test a form in REDCap and then export the Data Dictionary of that form. You will upload the Data Dictionary file to the Coursera platform for “Peer Assessment #2 – First REDCap Assignment.” Your classmates will evaluate your Data Dictionary submission by comparing it to the official template file. In **Part B**, you will design your own REDCap form.

Full instructions are below.

Instructions

To begin the assignment, you will need to log into the Coursera training version of REDCap. For access,

- 1) Make sure you are logged into Coursera website;
- 2) Navigate to the REDCap site: <https://www.datacourse.org> ; then
- 3) Click on the **Log In Using Coursera** button.

Part A

The first part of this assignment (Part A) is to create a single case report form in a single study database. Start by creating a new **empty project** titled: **Coursera – First REDCap Exercise**.

This will give you a new project with a single case report form called “My First Instrument.” Rename “My First Instrument” to say “**Baseline Information**.”

Your starter form already contains one field called “Record ID.” The field is set up like this:

Starter Field:

Field Name = record_id

Field Label = Record ID

Field Type = Text Box (Short Text)

No Validation

For Part A of this assignment, you will need to add **6 additional fields** to this form. The six new fields are described below. Do not change the Starter Field for this assignment. Add the 6 new fields below the Starter Field, in the order listed here.

Field 1:

Variable Name = first_name

Field Label = First Name

Field Type = Text Box (Short Text)

No Validation

Identifier = Yes

Field 2:

Variable Name = dob

Field Label = Date of Birth

Field Type = Text Box (Short Text)

Validation = Date (Y-M-D)

Identifier = Yes

Field 3:

Variable Name = gender

Field Label = Gender

Field Type = Multiple Choice – Radio Buttons (Single Answer)

Field Coding =
1, Female
2, Male
3, Unknown
4, Unspecified

Field 4:

Variable Name = weight

Field Label = Weight (kg)

Field Type = Text Box (Short Text)

Validation = Number

Field 5:

Variable Name = travels_past_year

Field Label = Where has study participant lived or traveled in last year?

Field Note = check all that apply

Field Type = Checkboxes (Multiple Answers)

Field Coding =
1, Africa
2, Asia
3, Australia
4, Europe
5, North America
6, South America
7, Other

Field 6:

Variable Name = travels_past_year_other

Field Label = Please specify

Field Type = Notes Box (Paragraph Text)

**** There are additional special instructions for this field.** We do not want Field 6 to display unless the user checks “Other” in Field 5. Your task is to **use branching logic** to display Field 6 only when a user selects “Other” for Field 5 (travels_past_year).

To access the branching logic options, click the two-headed green arrow icon for Field 6 (Figure 1). This functionality is described in more detail in the demonstration videos for this week.

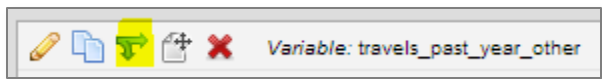


Figure 1: Branching Logic button

When you’ve added Fields 1-6, test the form to ensure everything looks good and branching logic is working. **Remember that you cannot use the Online Designer to test your form.** The Online Designer is only a visual aid for forms design. Click “Add/Edit Records” and create a new record to test your form using fake data (Figure 2). Make sure the branching logic is working for the “Other” field.

When you’re done testing, click “Edit instruments” to return to the Online Designer. For more details on these functions, please watch the weekly videos.

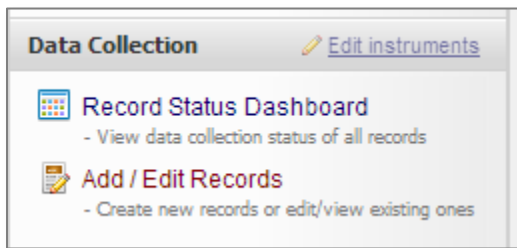


Figure 2: Links to Data Entry (“Add/Edit Records”) and Forms Design (“Edit Instruments”) options

Once you have tested your form, return to the “Project Setup” page and download the current Data Dictionary for your project (Figure 3).

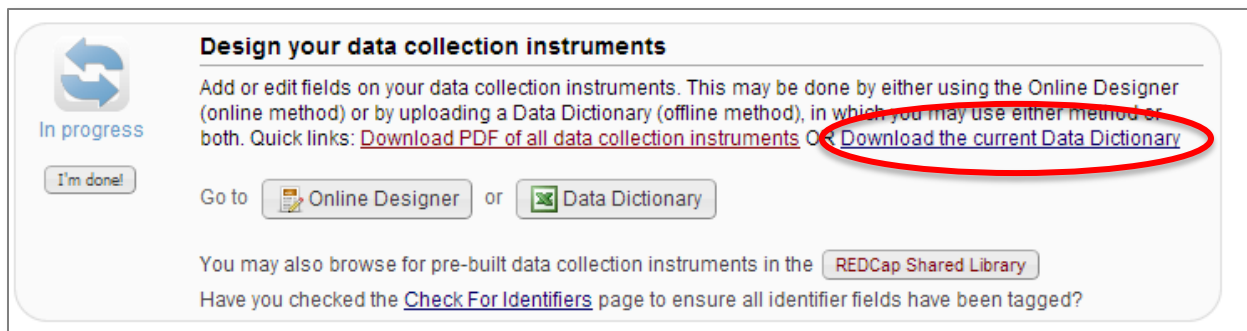


Figure 3: Link to download current Data Dictionary

This will produce a *.csv file similar to the one shown in Figure 4. Save this file to your computer.

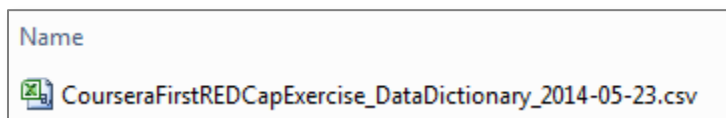


Figure 4: CSV Data Dictionary downloaded on 2014-05-23

Upload this CSV file when turning in your assignment. Your classmates will assess your work based on this CSV, so make sure you have followed the instructions, are using correct spelling and capitalization, and have included all the fields.

We recommend that you **do not** open and resave this CSV file in Microsoft Excel before you upload it for your assignment. Microsoft Excel will often apply region-specific formatting to CSV files and learners in the past have ended up with corrupted submission files.

Part B

If you successfully complete Part A, you will receive most of the points for this assignment. In order to earn the two remaining points you must complete Part B also.

For Part B, you need to **develop your own form in REDCap**, without specific guidance.

Make sure to create **another new empty project** in REDCap (Figure 5). **Do not change the "Coursera – First REDCap Exercise" project that you created in Part A.**

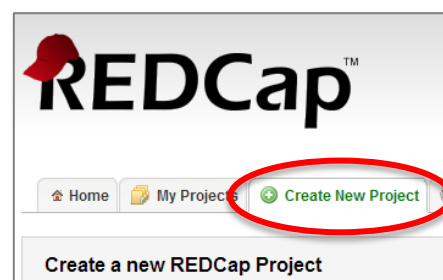


Figure 5: Create New Project in REDCap

Design your Part B form around a topic you think would make for a good data collection instrument. Be creative! This could be a form for collecting data from an imaginary clinical trial, logging your travels, tracking the weather, or indexing your book collection. Use Part B to think about forms design and spend at least 15 more minutes getting comfortable with the REDCap forms design interface and other functionality. This experience will help you when we get to Assignment 3.

When you submit your CSV file for Part A, you will be asked to certify that you completed Part B also and write a few sentences about your Part B project. **You will not upload a CSV for Part B**, but feel free to discuss your Part B projects on the forum with your classmates.

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