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How to setup a longitudinal study in FormShare 4 steps and troubleshooting

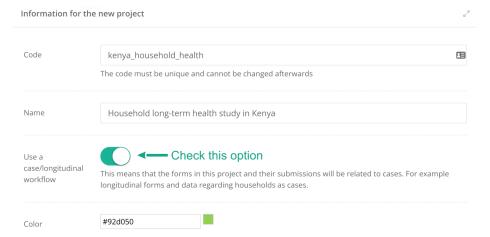
FormShare provides advanced data management tools for longitudinal studies.

The following steps will show you how to setup a longitudinal study in FormShare



Create a project with a case/longitudinal workflow

In FormShare create a new project and indicate that it uses a case/longitudinal workflow.



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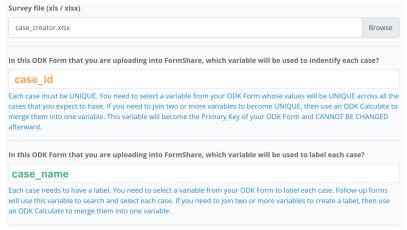
Design a case creator form using Excel and upload it into the project

A case creator form allows you to create cases. In a ODK XLSX Form have the following variables:

- · A variable that identify each case (e.g., case_id). Each case ID MUST BE UNIQUE across the whole study.
- A variable that can be used to label each case (e.g., case_name).

| type | name | label |
|------|----------------|-------------------------------|
| text | case_id | Unique ID of each case |
| text | case_name | Label of each case |
| text | other variable | Another variable in your form |

• Upload your form into FormShare using the "Upload Form" button and indicate the variables to identify and label each case.



- Test your case creator form.
- Create a repository for your case creator form. **Note: You cannot continue this guide without a repository.**

Create the real-time CSV case file

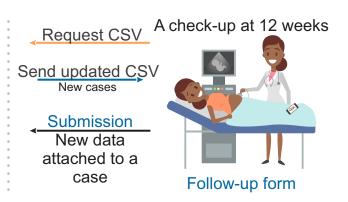
This file allows ODK forms to use the data of cases

In a longitudinal study, case creator forms create cases. For example, if your cases are about pregnant women then the case creator form collects information for each woman joining the study.

On the other hand, follow-up forms attach information to cases at different points in time. For example, a follow-up form can add information to women at each trimester to monitor the progress of their pregnancies. Follow-up forms are independent ODK Forms that you upload into FormShare. Follow-up forms need to search and select a case to then attach information to it. For this to happen follow-up forms need to use a CSV file that updates each time a case arrives in FormShare. The image below shows how this works.







- To create or adjust the real-time CSV case file, go to the "Project details" page and click on the "Update/edit the real-time CSV case file" button.
- You can add any information in the case creator form to the CSV file.



Design and upload a follow-up form

Follow-up forms attach data to a case

Follow-up forms allow you to attach information to cases at any point in time. In an ODK XLSX Form have the following variables:

- 1. A variable for searching and selecting cases. This variable could be:
 - A "select_one_from_file" using the real-time CSV case file or,
 - A "barcode" that would read the Case ID from a QR or Bar code.
- 2. A variable for storing the date of the follow-up. This could be "date", "datetime", "start", or "end".
- 3. A "calculate" variable joining variables 1 and 2 using a concat() function as calculation

| type | name | label | calculation |
|--|----------------|-------------------------------|--|
| start | survey_date | | |
| select_one_from_file real_time_csv.csv | case_id | Search and select a case | |
| calculate | survey_id | | concat(\${case_id},'_',format-date-time(\${survey_date}, '%Y-%m-%d %H:%M:%S')) |
| text | other_variable | Another variable in your form | |

Upload your form into FormShare using the "Upload Form" button and indicate the three variables from above.

