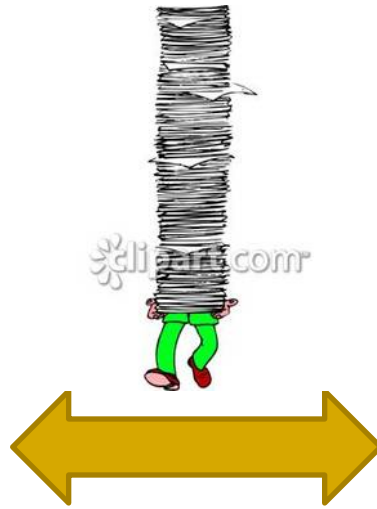


# DHIS-ODK

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Nolan Cash, Matt Moyers, Nara Kim,  
Ji Mun

# What is our project about?



- Paper forms
  - difficult to automate/access
- Weak or no connectivity to internet for a wireless based system.

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# Recent Fieldwork

## ■ Fieldwork

### □ DHIS Team

- Skype Call
- E-Mail

### □ Waylon Brunette (ODK Collect)

- Face-to-Face Meeting
- E-Mail

### □ Hillary Worden (ODK Tables)

- Face-to-Face Meeting
  - E-Mail
-

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# Overview of implementation plans

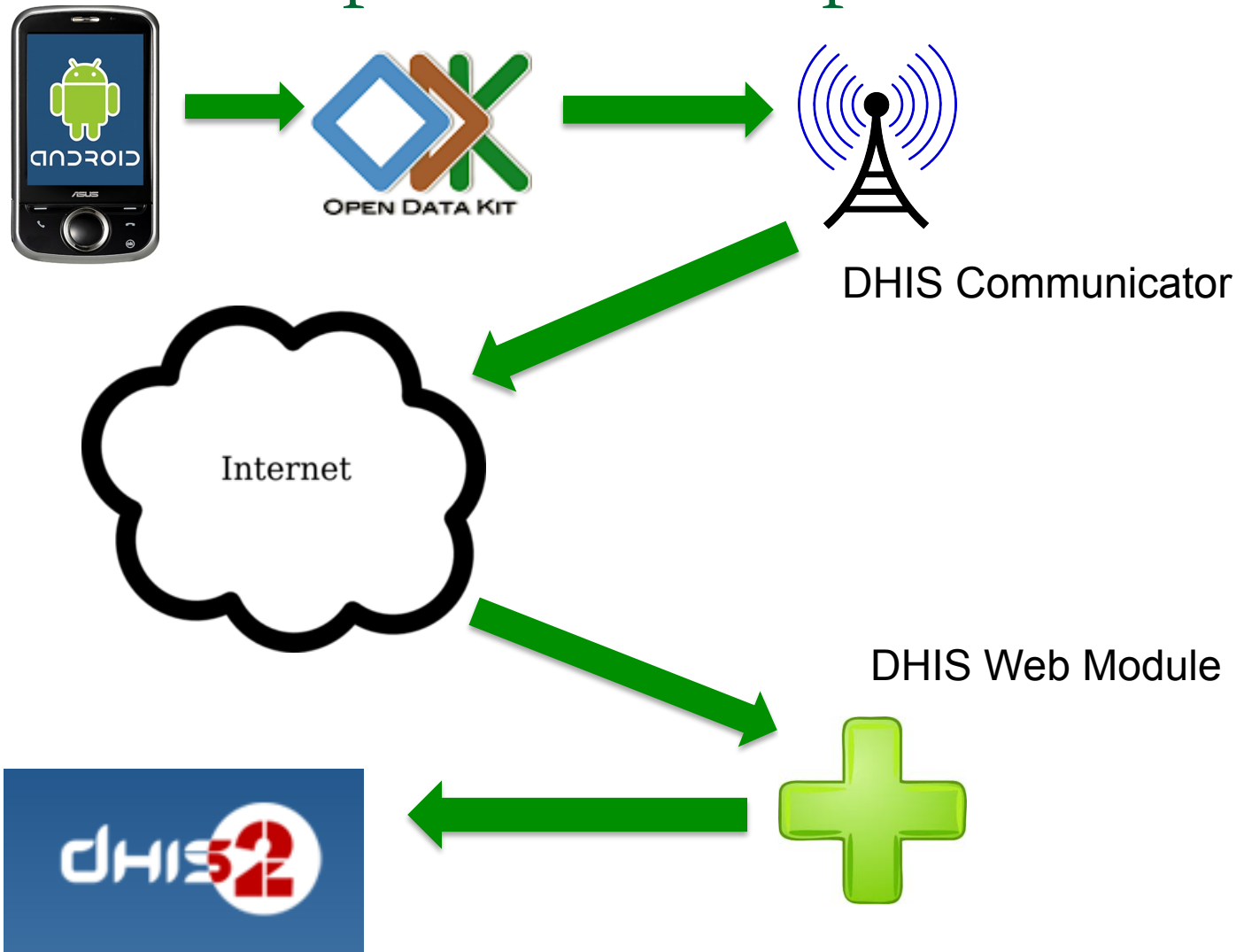
- **Architecture:**
    - Android
    - JSON & XML
    - ODK Collect & ODK Tables
    - DHIS Web API
  - **Major Components:**
    - Form Acquisition module
    - Form Completion module
    - Form Submission module
-

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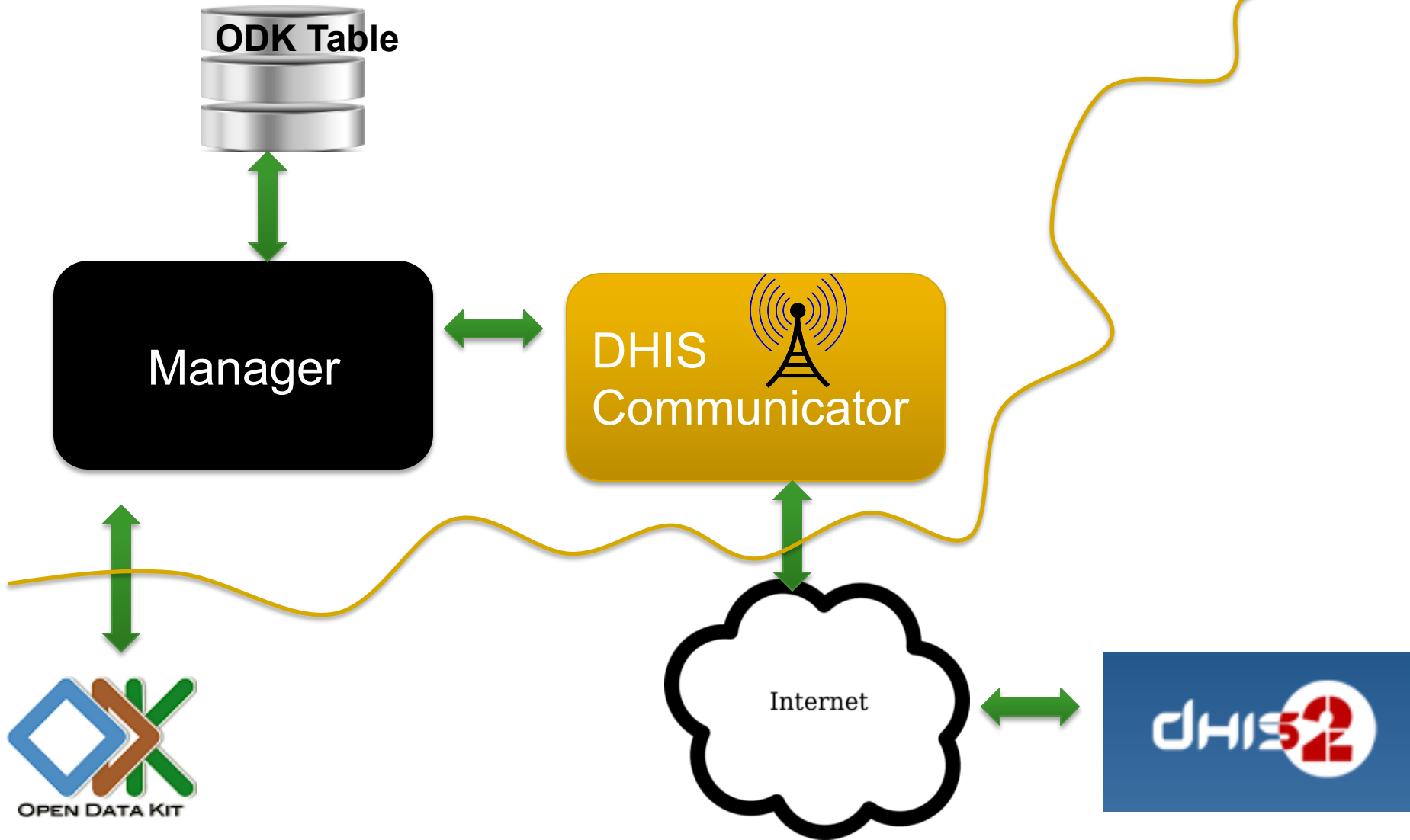
# Overview of implementation plans

- Important changes from original plan:
    - No longer making a server side web module
    - All data acquisition and submission will be done through the web api
    - Now more in line with DHIS implementation guide
-

# Overview of implementation plans



# Overview of implementation plans



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# What have we been doing?

- Server side

- Setting up local copy of DHIS
- DHIS Security
- How to submit data

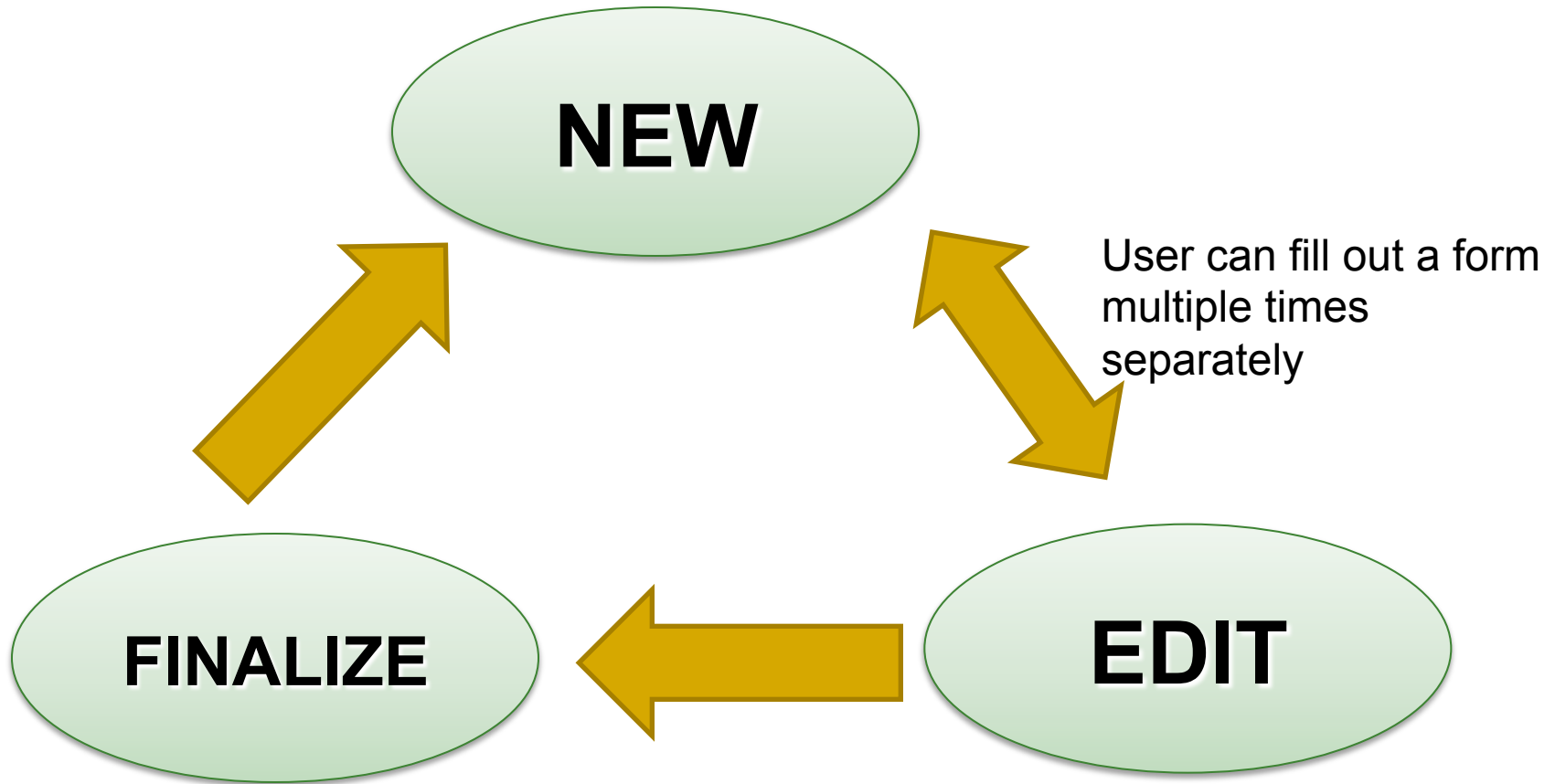
- Client side

- **ODK Table**-like module
  - UI for major components
  - Storing and getting forms in/from local database
  - Uses **ODK Collect**'s form
- CSV -> Table -> X-Form -> CSV

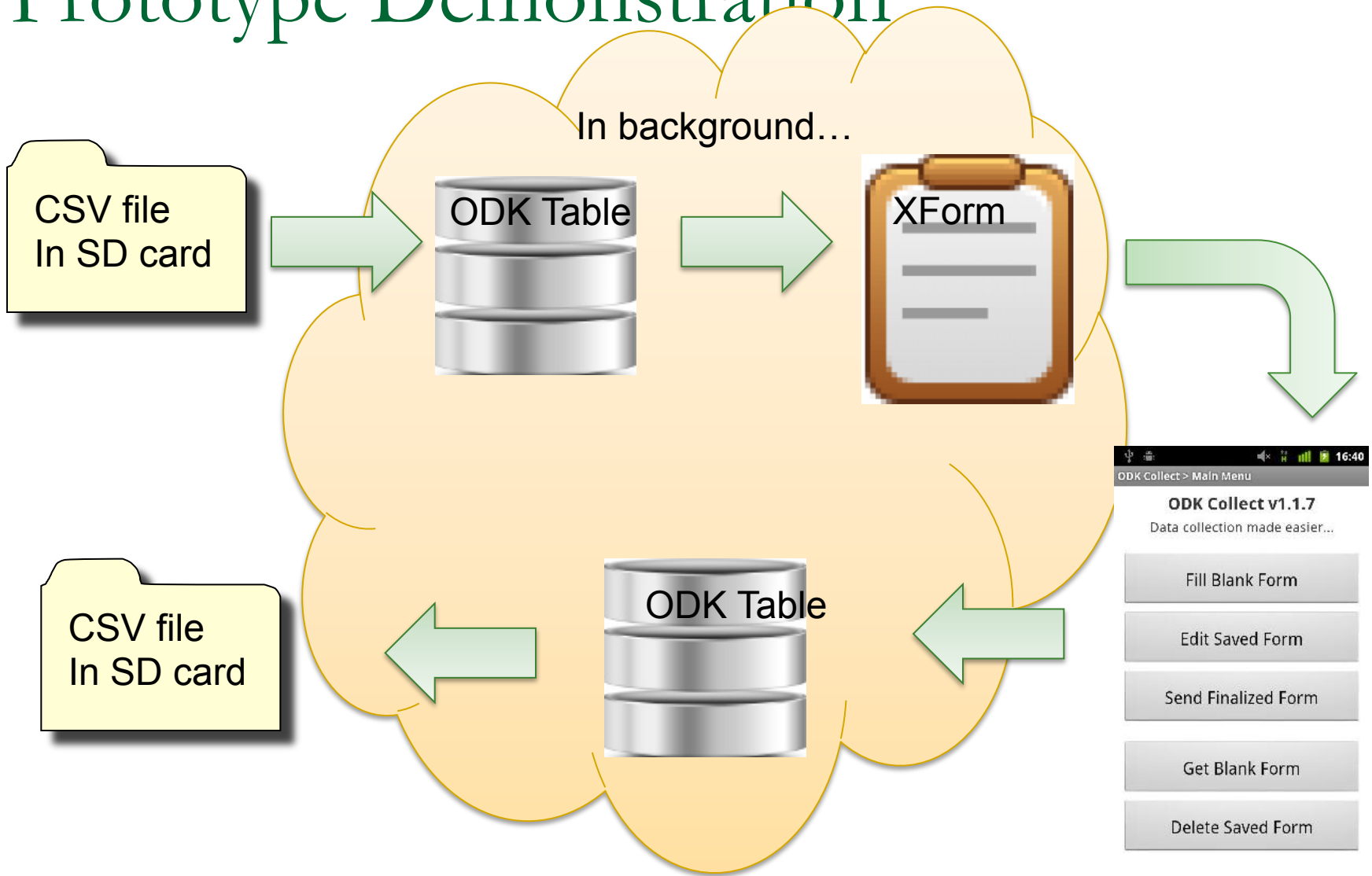




# Android - 3 States



# Prototype Demonstration



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# Evaluation plan

- **Functionality:**
    - Submit Data
    - Retrieve Data
  - **Good Solution?**
    - Faster than the current paper system.
      - Time Taken
      - Easy of Use
  - **Evaluation Through User Testing**
-

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# Evaluation plan

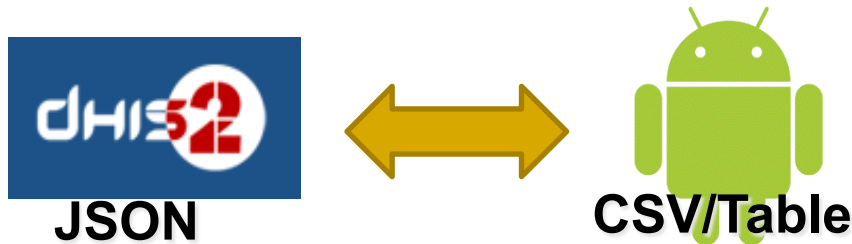
- Targeting
  - Healthcare Workers in India
- Deadline May 16th
- Final Target
  - Mid-Wives and Community Healthcare Workers that use DHIS in the world



# What's left?

## ■ Future work

- Android server side: server connection
  - Data submission testing, data retrieval



## ■ Unknown

- DHIS2 Forms with multiple columns
  - Solution: multiple tables for one form
- JSON ↔ ~~CSV Table~~

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	1	2	3	4	5
Sending Data to Server	Testing		Data Submitting		Show Server side Forms	

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29 Sending Data to Server	30 Testing	1	2 Data Submitting	3	4	5
6 Getting Data from Server	7 UI Complete	8	9	10	11 Showing Data from Server	12
13 Testing	14	15	16 Data Retrieval	17 Testing	18	19
20	21	22	23	24 Final Demo	25	26
27	28	29	30	31	1	2