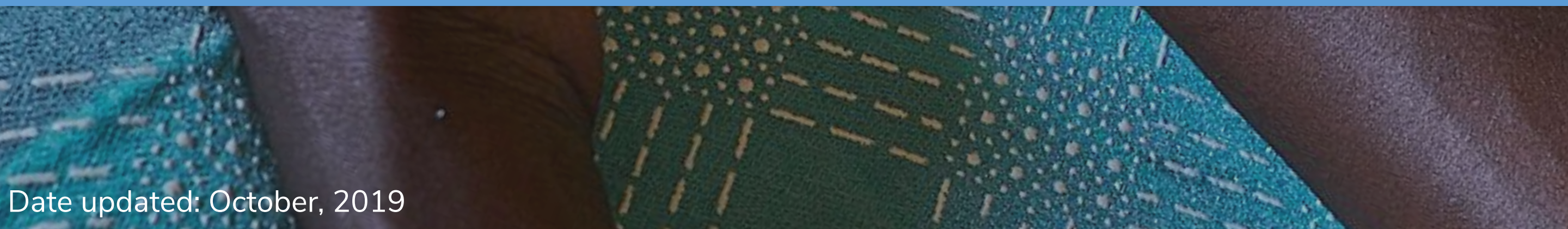




Community Health Toolkit

Reference App: Antenatal Care



Date updated: October, 2019

Introduction

Welcome to the Community Health Toolkit's ANC Reference App!

The idea of a reference app was born of two truths: 1) designing and building an app from scratch is a significant undertaking, and 2) many unique program models exist and there is no such thing as a “one size fits all” app.

A reference app provides a foundation for forms, data fields, and analytics so that partners can easily customize workflows to their context. It has been designed to model an ideal way of structuring and organizing a workflow, its configuration code, and testing framework. Contained in this documentation is guidance on how and where partners can customize the app to manage dependencies and draw on best practices.

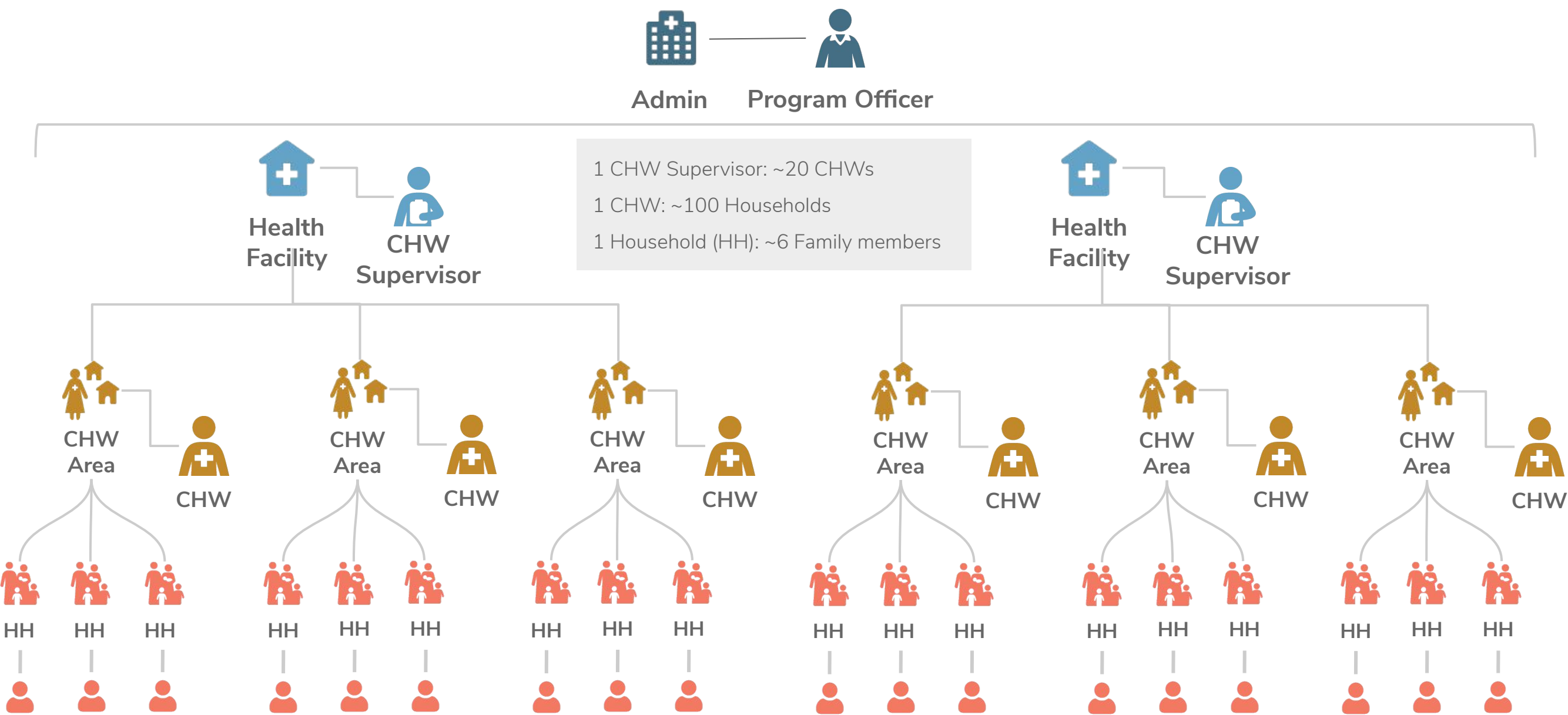
We hope you'll learn a lot and make it your own!

Hierarchies & User Roles:

The App Program Structure













App Hierarchy

The app hierarchy is often modeled after the health system, health program or community structure. All people who are registered in the app must be associated with a place. These places are located in a hierarchy to other places. For instance, a Family Member is part of a Household. A Household and CHWs are part of a CHW Area. A CHW Area and nurses are part of a Health Facility. Additional levels may be added as needed. The Admin level operates outside of the hierarchy and gives access to all levels and people.



User Roles

Some of the people who are registered in the app will also be users of the app, with their own log-in and permissions. Differing levels of access and permissions are assigned to each persona, or “type” of person who needs to log in. A user role is created to provide them with access to the information they need. Offline and online access, storage limitations, and data privacy are taken into account.

Persona	Hierarchy	Device	Permissions
<div><div>Program Officer</div></div>	<div><div>Logs in as Admin</div></div>	<div></div>	Admin users, usually Program Officers, are online-only admin users not associated to a particular level. They have access to all people, places, and records in the app, but since they are online-only users, they cannot view any tasks or targets.
<div><div>CHW Supervisors</div></div>	<div><div>Logs in at Health Facility</div></div>	<div></div>	User at this level have offline access to view CHWs, fill out reports about them, and view tasks and targets related to them. Due to storage limitations, they aren't able to view households or submit reports and review tasks and targets about them.
<div><div>CHWs</div></div>	<div><div>Logs in at CHW Area</div></div>	<div></div>	Users at this level have offline access to view households and family members, submit reports about them, and view tasks and targets about them.
<div><div>Family members</div></div>	<div><div>Registered at Household. Does not log in.</div></div>	<div></div>	Family members might include fathers, mothers, children, and other adults. The program model determines which family members should be registered in the app. However, they are not users of the app, and do not log in themselves.

Forms and Workflows: Content and Care Guides

Introduction to Forms & Workflows

This section includes documentation of the forms and workflows that tell a story of how the app will be used and for what purposes.

Documentation to forms and task schedules are linked from the workflow diagrams.

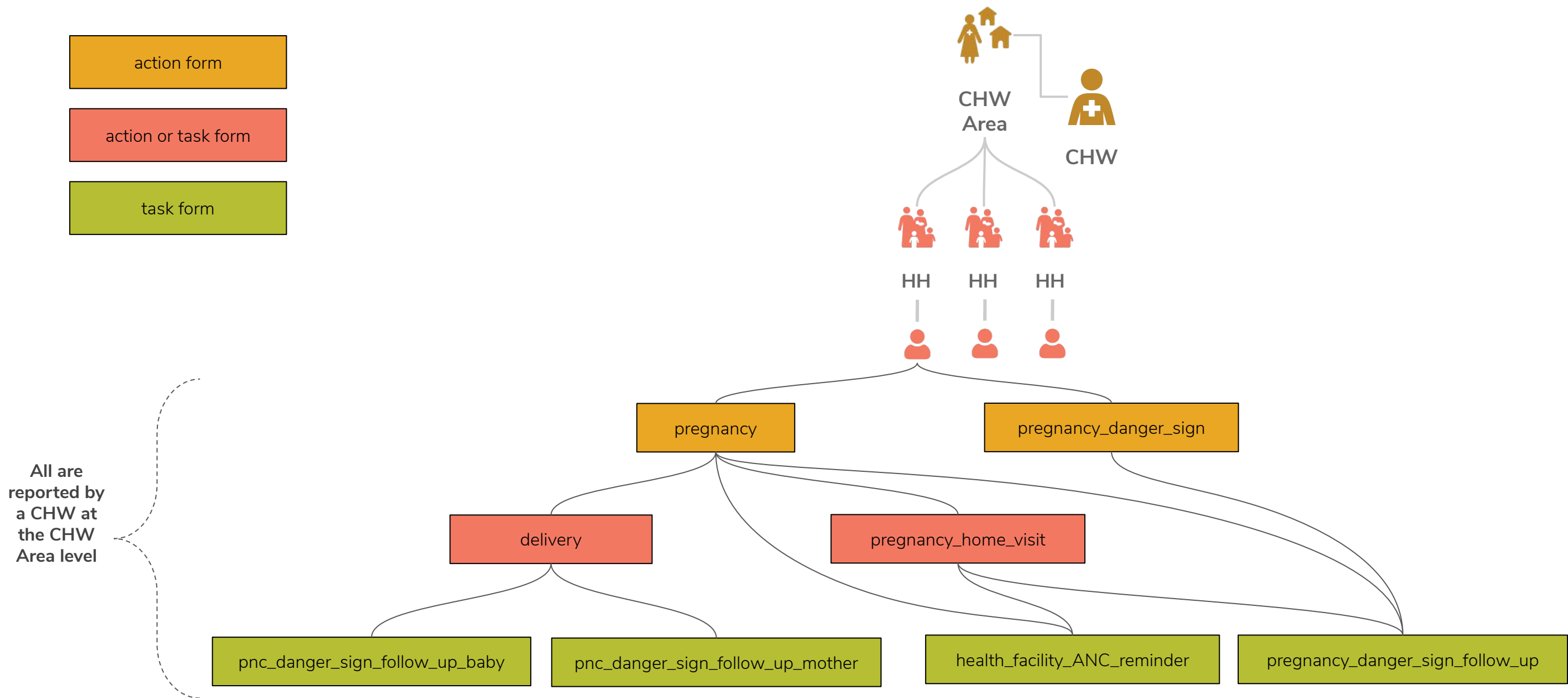
Within the form documentation is the summary page that will appear at the end of the form as well as the condition cards that will appear on the person's profile once the form is submitted.

Accompanying this documentation are tips and insights into the design decisions made along the way, and suggestions for how and where to customize the forms to another context.

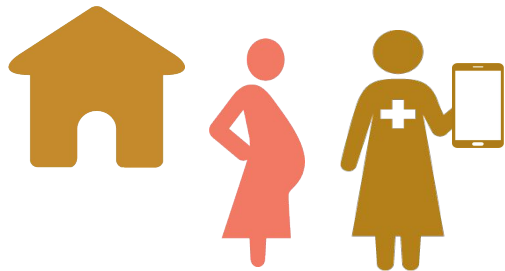
The task documentation are the “task rules” that determine what triggers a task, how long it displays, and what clears it.

Form Hierarchy

Once a hierarchy of people and places is established, forms are added at different levels and workflows are created. This diagram indicates the forms that can be filled about a person in the app (in this case, family members at the household level), as well as the person/user who will access these forms and make the reports (CHWs at the CHW area level). Some forms are accessible as actions from the family member's profile as **actions**, others from the CHW's task list as **tasks**, and some as either. For more information about how to control who can access forms and what conditions, check out the Forms Documentation on Github.



Pregnancy Workflow



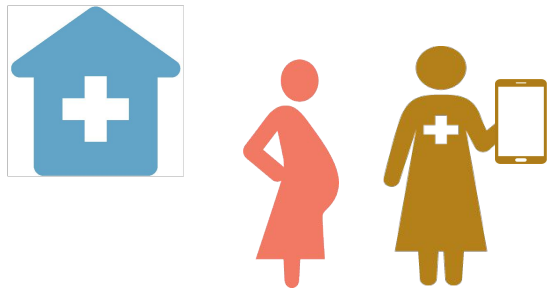
Upon discovering a pregnancy, a CHW submits a [Pregnancy Form](#) confirming a new pregnancy with the estimated gestational age.

Triggers:



At 8 WHO touchpoints (or every two weeks if no-LMP), CHW receives a [Pregnancy Home Visit Task](#) to let her know that it's time to check in on the pregnant woman.

Completed When:



CHW submits [Pregnancy Home Visit Form](#), demonstrating that she provided ANC counseling, gathered information from prior facility visits, and screened for danger signs.

A [Pregnancy Form](#) is submitted with the gestational age unknown.

Triggers:



A [Pregnancy Visit task](#) appears every 2 weeks for 42 weeks.

Completed When:



CHW submits [Pregnancy Home Visit Form](#). If the gestational age is entered, the workflow will change to [Pregnancy Home Visit tasks](#).

A CHW submits a [Pregnancy Home Visit Form](#) that includes an upcoming facility visit date.

Triggers:



A [Health Facility ANC Reminder Task](#) 1 week ahead of the facility visit to remind the woman to attend.

Completed When:



CHW submits [Health Facility ANC Reminder Form](#), confirming that she called or visited the woman to remind her of her upcoming facility visit.

If the CHW notices danger signs at any time, then she submits a [Danger Sign form](#) immediately refers the patient to the facility..

Triggers:



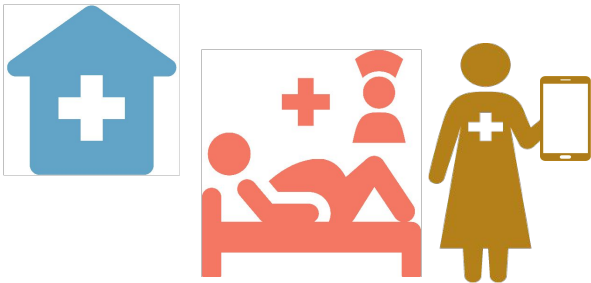
A [Danger Sign Follow-Up Task](#) will appear immediately and is due 3 days later. The tasks persists for 7 days after due date.

Completed When:



CHW submits a [Danger Sign Follow-Up Form](#), verifying that she called or visited the woman to confirm that she attended the facility. If this is not received, another [Danger Sign Follow-Up Task](#) is triggered.

Delivery Workflow



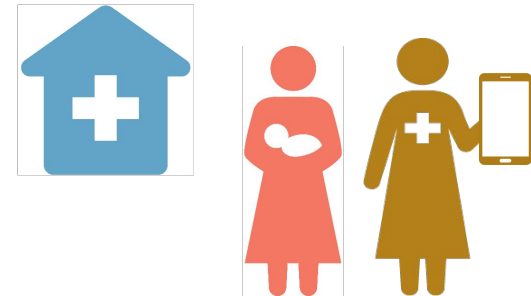
A currently registered pregnant person as reached a gestational age of 42 weeks and has not had a miscarriage or a delivery reported.

Triggers:



A [Delivery task](#) requesting that the CHW check in on the woman to see whether she has delivered.

Completed When:



CHW submits a [Delivery Form](#), confirming the pregnancy outcomes. Profiles are created for each baby that is alive. This “ends” the pregnancy workflow.

A CHW submits a [Delivery Form](#) that contains a danger sign for mom or baby, or reports that either mom or baby are “alive and unwell.”

Triggers:



A [Danger Sign Follow-Up Task](#) appears immediately and is due 3 days later. Persists for 7 days after due date.

Completed When:



The CHW calls or visits woman to confirm that she attended and submits a [Danger Sign Follow Up Form](#). If this is not received, another [Danger Sign Follow-Up Task](#) is triggered.

If the CHW notices danger signs at any time, then she submits a [Danger Sign Form](#) immediately refers the patient to the facility.

Triggers:



A [Danger Sign Follow-Up Task](#) will appear immediately and is due 3 days later. The tasks persists for 7 days after due date.

Completed When:



CHW submits [Danger Sign Follow Up Form](#), verifying that she called or visited the woman to confirm that she attended the facility. If this is not received, another [Danger Sign Follow-up task](#) is triggered.

Additional Documentation

Full list of Links and Resources

Form Diagrams

[Pregnancy](#) (Registration)

[Pregnancy Home Visit](#)

[Delivery](#)

Technical Specifications

[Forms list](#)

[Tasks Specifications](#)

[Targets Specifications](#)

Instructions

<https://github.com/medic/medic>

[Technical instructions on making changes](#)