Hands-on with DFdiscover 2018, DFcollect and DFweb

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Demo

- This is an example study, the DFUG Hands On Study
- Pain medication is administered to subjects admitted to hospital
- The demo highlights how each of the DFdiscover tools (DFsetup, DFexplore, DFweb and DFcollect) can be used effectively, for unique purposes and in harmony
- This is not an exhaustive description of features
Please welcome:
- Simon, Data Manager
- Evan, Study Nurse
- Connor, Study Coordinator
- Anna, Monitor
Simon adds fields to complete study setup.

Evan completes visit while offline & uploads data when online.

Connor enters lab results into the eCRF.

Anna reviews data, adds query & suggests field help.
So what did we just see?

- CDASH library
- Study setup without paper CRF
- Data collected offline with DFcollect
- Data collected online with DFexplore
- Data reviewed and queried with DFweb
- Queries resolved with DFcollect

#DFUG2018
Key New DFdiscover Features

- eCRF
  - Paper-less layout
  - Layout is optimized
- Field prompt
- Grouping
- Screens
Welcome to DFweb - A web data entry tool

- Introduction
  - Created Scenario Example
  - Advantages
  - Technologies

- Data Entry
  - Input Fields
  - QRM Dialogs
  - Attach Documents
  - Field, Plate, Study Level Help

- What DFweb can and cannot do? (Data Entry vs. Data Mgmt.)

- Summary
Introduction – Demo Scenario

- An example:

  Scenario: Hospital – resources are highly controlled, difficult to install software on laptop

  No Tablet – but you have browsers, and the internet is available

  Goal: EDC / Data review
Introduction – Demo Scenario

- Question: Which tool should Anna use?
Introduction – Advantages

- Zero Install Solution:
  - Start right away
  - Always up to date
Introduction – Advantages

- Responsive Design Principles:
Introduction – Technologies

- Common industry solution:
  - AngularJS
  - Node.js
  - Restful API

- Security:
  - SSL encryption and JWT authentication
Data Entry - Overview
# Data Entry – Accuracy

## Acceptance Test Study

### 5: Monthly Follow-up Form

#### Main Screen

- **Follow-up Month**: 1 Month
- **Patient Number**: 20999
- **Patient Initials**: Empty

**Visit Date**

- **Date**: 10/09/18
  - Input format is invalid. Correct format is `dd/mm/yy`.

- **Blood Pressure: Reading 1 systolic**: 1 mmHg
  - Input is not a legal value. Legal values are 60-300.

- **Blood Pressure: Reading 1 diastolic**: 3 mmHg
  - Input is not a legal value. Legal values are 30-150.

- **Blood Pressure: Reading 2 systolic**: 60 mmHg
Data Entry – QRM

- Appearance of Queries dialog: $\xrightarrow{Q^5} Q^1$
Data Entry – QRM

- Appearance of Reason dialog:

![Reason for Data Value dialog](image)
Data Entry – QRM

- Appearance of Missing value dialog:
Data Entry – Attach Documents

Manage Document – Under hamburger menu button on a plate
Data Entry – Field, Plate, Study Help

**BP Screening**

This page is to be completed at the patient's initial visit.

Screen 1 Readings are taken at the initial visit.
Screen 2 Readings must be taken at least 24 hours after Screen 1 Readings.
What DFweb can/cannot do?

DFweb Features

- Data Entry
- QRM
- Attach Documents

DFweb Limitations in Version 1

- No edit checks, no lookup tables
- Workflow – level 1, incomplete only
  - Need user feedback
- Uses dfweb.dfdiscover.com as a shared resource
Requirements

- Need a DFws license
- Need internet
- Chrome, Firefox, Edge, or Safari browser
- Authenticated user needs to have write level 1 permissions
DFweb Summary

- Frequently requested addition to DFdiscover
- User-friendly interfaces throughout the application
- Experiment with it: https://dfweb.dfdiscover.com
  - Request a sandbox account

Thank you and enjoy DFweb!
Welcome to DFcollect

- Tablet-based app
- Like DFweb, focus is on accurate, efficient data entry
Requirements

- iOS 10.10+, Android 5+
- Distributed through Google Play store, Apple App store
- Connect the very first time while online so that setup is available in local cache
- Permissions must allow modify or write level 1 permissions
Icons

- Start download
- Upload from local storage
- Clear from local storage
- Offline saved changes
- Online unsaved changes
- Online locked plate
Cache Management

- Cache = Local (on tablet) storage
Conflict Resolution

- How can this occur?
- Server-side or local – who wins?
Limitations

- Must login at least once online
- Not possible to change password offline
- Not all edit check functions are available
- No lookup tables
General Availability

- Requires server-side 5.1.0
  - 5.0.1 desktop clients can connect
- Demo soon with explore.dfdiscover.com
- Get test apps from Google Play or Apple stores
- Release before end of 2018
Future Work

- DFweb and DFcollect
  - Workflow tasks
  - Lookup tables
- DFweb
  - Edit checks
- DFcollect
  - Device management