

Medical Missions

New application goals

- Web based system
- Multiple people entering visits
- Enter new patient profile information in Belize

Primary Users

- Admin
- User
 - Shirley
 - Registration
 - Doctors

Patient ID

Would love to know initial location in Patient ID
Used to key details on patient at a later time

Location - Trip - Machine - AutoSync#

HC - AB - 01 - 0001

Date Component

Uses computer time/date settings for data entry of dates

04/10/2016



10/04/2016



When viewing dates, we will always print it out so it is fully legible.

April 10, 2016



10 April, 2016



Server

Login

Username

Password

Login

[Cancel](#)

Trips

+ Create a trip

Name	Start Date	End Date	Open/Closed
Winter Belize Mission Trip	01/27/16	01/31/16	Open
Fall Belize Mission Trip	10/5/15	10/09/15	Closed
Summer Belize Mission Trip	07/10/15	07/15/15	Closed
Spring Belize Mission Trip	04/16/15	04/20/15	Closed



Business Rules:

- Only one trip open at a time. Must close trip before a new trip is started.
- Unable to close trip if all workstations have not been finished

Create Trip

Name

Date

 / /  to / / 

Create Trip

[Cancel](#)

Winter Belize Mission Trip

01/27/16 - 01/31/16

WS #1 - Began on 01/26/16 - Ended on 01/31/16
WS #2 - Began on 01/25/16 - Ended on 01/31/16
WS #3 - Began on 01/26/16 - **Due to Finish**

Close Trip

[Cancel](#)

Winter Belize Mission Trip

01/27/16 - 01/31/16

WS #1 - Began on 01/26/16 - Ended on 01/31/16
WS #2 - Began on 01/25/16 - Ended on 01/31/16
WS #3 - Began on 01/26/16 - Ended on 02/01/16

Close Trip

[Cancel](#)

Connected Client

Login

Username

Password

Login

[Cancel](#)

Begin Trip

Winter Belize Mission Trip ▼

WS#2: 01/25/16

Begin Trip

Main Program

Finish Trip

Winter Belize Mission Trip ▼

WS#2: 01/31/16

Finish Trip

Winter Belize Mission Trip

Completed

Begin New Trip

Done

Client: In the field

Main Program

Login

Username

Password

Login

Cancel

Q Search (Patient ID & Name sections)

+ Add New Patient

↺ Finish Trip (only available when connected to Internet)

🚩 Flagged Treatments

Q

+

🚩

↺

Print

Save

Patient ID

First Name

Last Name

DOB

/ /

Age

Gov ID

Next of Kin

Tiffany Flowers

Gender

Female

Marital Status

Common Law

Where do they live

Phone 1

Phone 2

Church

Medicine Allergies

Past Medical History

Past Surgeries

Family Medical History

Personal Life Notes

Admin Notes

Gyn

GynG

GynP

Translator

Hope

Smoke

Alcohol

<<

04/10/16

>>

+

Add a New Visit

✕

Delete Visit

Overall

Treatments

Date of Visit

04/10/16

April 10, 2016

Reason for Visit/Chief Complaint

Diagnosis

Wrist Pain ✕

Abscess ✕

Referral

Location

Silk Grass

Vitals

Height	Weight	Pulse	BP	Resp	Temp	Oxygen	Glucose	Hemoglobin	Preg Test
60	140	70	105/70	20	98.2	99			

Urine Labs

Blood-H	Blood-N	Urobilin	Bilirubin	Protein	Nitrite	Ketones	Ascorbic	Glucose	pH	SpGrav	Leuk

Save

Cancel

Q +



//



110

☒ Hope☐ Alcohol

Save

11/11/2016

Female

Common Law

□

Source: *Author's calculations.*

--

GynG

GynP

11/11/2011

- If DOB is entered, calculate Age. Allow age field for text to be entered.
- Next of Kin: enter Patient ID of other patient. Show name of Next of Kin patient based on Patient ID entered
- Marital Status: Married, Single, Divorced, Common Law
- Gender: Female, Male

Main program - Overall

Q

+

04/10/16

»

+ Add a New Visit

✕ Delete Visit

Overall

Treatments

Date of Visit

04/10/16

April 10, 2016

Reason for Visit/Chief Complaint

Diagnosis

Wrist Pain ✕ Abscess ✕

Referral

Location

Silk Grass

Vitals

Height	Weight	Pulse	BP	Resp	Temp	Oxygen	Glucose	Hemoglobin	Preg Test
60	140	70	105/70	20	98.2	99			

Urine Labs

Blood-H	Blood-N	Urobilin	Bilirubin	Protein	Nitrite	Ketones	Ascorbic	Glucose	pH	SpGrav	Leuk

Save

Cancel

Business Rules:

- Up and down arrows per vital and urine lab fields shows if the number went up or down from previous visit.
- Hover shows previous numbers

Main program - Treatments

Q

+

<< 04/10/16 >> + Add a New Visit ✕ Delete Visit

Overall

Treatments

+ Add a treatment

General Note

✎ ✕

Lorem ipsum dolor sit amet, pretium mauris a. Eu fames ac eget hendrerit nec, maecenas eget ac consectetur, nulla euismod ante nulla ridiculus sit non, magna amet porta eget et pretium.

Ed Behling
April 10, 2016

🚩

Injection

✎ ✕

Insulin

Mark Hucks
April 10, 2016

Prescriptions

Medication and Dose	Quantity	Directions
Nitofurantin 100mg	30	PRN as directed
Ibuprofen Elixir 100/5ml	1	PRN as directed
Diphenhydramine Elixir 12.5/5ml	1	PRN as directed

Save

Cancel

Business Rules:

- Filter icons include Treatment types and individual users

Prescriptions

- When a new visit is created the prescriptions from previous visit are automatically added to new visit. Only copy over refilled and new prescriptions added. Do not copy over discontinued or did not dispense medications.
- TO DO:** Figure out the best way to handle marking prescriptions to be refilled, discontinued or did not dispense

Treatment types:

- General Notes, Injection, Nebulizer Treatments, Procedure, Biopsy, Pap Smear, IND, Chiropractor Treatment, Laceration

Treatment

Type

General Note

Description/Instruction

☐ Medical Follow up

☐ Spiritual Follow up

Save

Cancel

Follow up



Follow up



Anne Adam

03/12/77 (37 years)

Female

678

Medical



Resolve

General Note

Lorem ipsum dolor sit amet, pretium mauris a. Eu fames ac eget hendrerit nec, maecenas eget ac consectetur, nulla euismod ante nulla ridiculus sit non, magna amet porta eget et pretium.

Ed Behling

April 10, 2016



Cade Brown

03/12/78 (36 years)

Male

468

Spiritual



Resolve

General Note

Lorem ipsum dolor sit amet, pretium mauris a. Eu fames ac eget hendrerit nec, maecenas eget ac consectetur, nulla euismod ante nulla ridiculus sit non, magna amet porta eget et pretium.

Ed Behling

April 10, 2016

Business Rules:

- List in alphabetical order
- Include treatment that was flagged
- If multiple treatments are flagged repeat individual with unique treatment
- Filter on Follow up types of medical and spiritual
- Select Resolve. Enter in note. Remove flag from treatment. Remove from Follow up listing.

Resolve Follow Up

- Type is Treatment Type
- Save: Saves as a new treatment, removes flag from original treatment, remove from follow up listing
- Cancel: Remains in follow up listing

Resolve Follow Up

Type

General Note


















Description/Instruction

Save

Cancel

Search













	Anne Adam 03/12/77 (37 years) Female	678 
	Cade Brown 03/12/78 (36 years) Male	468 
	Rene Crown 03/12/77 (37 years) Female	234 
	Sam Dunn 03/12/77 (37 years) Male	780 
	Zan Edwards 03/12/77 (37 years) Male	643 


Business Rules:


- Search on Patient ID, Name & DOB
- Name search is phoenic field
- Return next of kin, too if searching on patient ID


Print




**Patient List**
Patient ID, Name, Birthdate and Notes

**Full Patient History with Meds**
Patient ID, Name, Visit History and Medications

**Blank New Patient Form**
Blank New Patient Form

**Patients per Doctor**
List of patients by doctor for trip



Admin: Main Program - Settings

Q

+

🖨

🚩

⚙

↺

Settings

Users

Locations

Diagnosis

Treatments

Prescriptions

Username

Password

Role

User

Add

anne@gmail.com

Field User

Last logged in: 02/02/2016

✕

cade@gmail.com

Administrator

Last logged in: 02/02/2016

✕

sam@gmail.com

Field User

Last logged in: 02/02/2016

✕

Q

+

🖨

🚩

⚙

↺

Settings

Users

Locations

Diagnosis

Treatments

Prescriptions

Location Name

Location Code

Add

Dangriga - HC

✕

Hope Creek - HC

✕

Light of the Valley - LOV

✕

Q

+

🖨

🚩

⚙

↺

Settings

Users

Locations

Diagnosis

Treatments

Prescriptions

Category

Code

Medication Name and Dose

Add

Pain

PA1 - Acetaminophen (Tylenol) 325 mg

✕

PA2 - Acetaminophen (Tylenol) 500

✕

PA5 - Acetaminophen Elixir (Childrens) 160mg/5ml

✕

PA6 - Acetaminophen (Typlenol PM) 500mg/25mg

✕

Q

+

🖨

🚩

⚙

↺

Settings

Users

Locations

Diagnosis

Treatments

Prescriptions

Category

Code

Name

Add

Respiratory

R01 - Upper Respiratory Infection

✕

R02 - Nasal Congestion

✕

R03 - Sinusitis

✕

R04 - Pharyngitis

✕

Q

+

🖨

🚩

⚙

↺

Settings

Users

Locations

Diagnosis

Treatments

Prescriptions

Name

Add

General Notes

✕

Nebulizer Treatments

✕

Injection

✕

Pap Smear

✕

Business Rules:

Users

- Roles: Admin and User
- Admin: Access to everything
- User: Access to search, patients, print, flag and finish trip

Treatments

- General Notes, Nebulizer Treatments, Injection, Procedure, Biopsy, Pap Smear, IND, Chiropractic Treatment, Laceration
- Include prescriptions

Prescriptions

- Medication field include Medication Name and Dose

Notes

- Prescriptions per trip will be managed through maintaining the prescription list in settings

Questions

- Any changes to current reports
- New report: Medications for trip
- Specific fields to show up & down indicator
- Does Chronic illness need to be a new field
- Is the description field enough for Pap?
- What is referral used for?
- Do we need to change the Church's field to a dropdown?

Version 2

- Identify duplicate people and give ability to merge
- Attached scanned documents
- Barcodes for pharmacy inventory
- Pharmacy labels

Technical Details

Server

- CouchDB for database
- Node.js application language
- Linux
- Nginx

Client

- Node.js application language
- Electron
- SQLite + PouchDB

Technical Details

Reporting

- To be decided

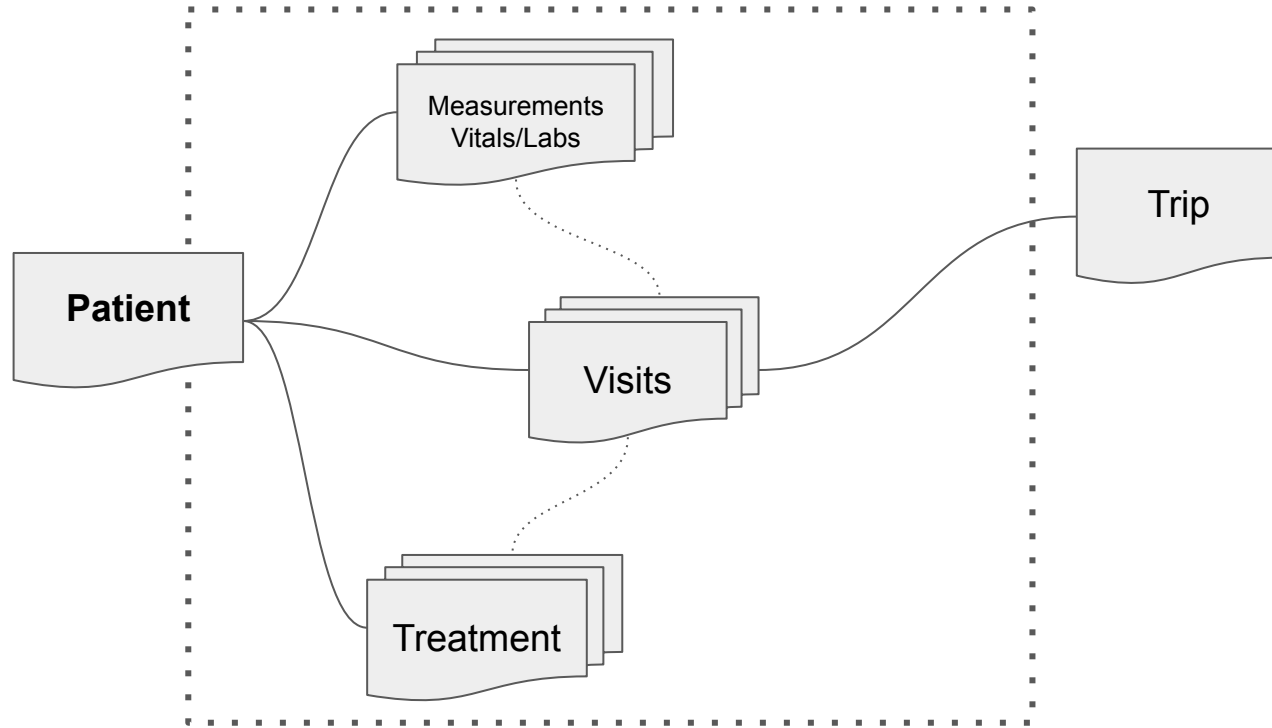
Hosting

- Digital Ocean (dev)
- Any Linux host

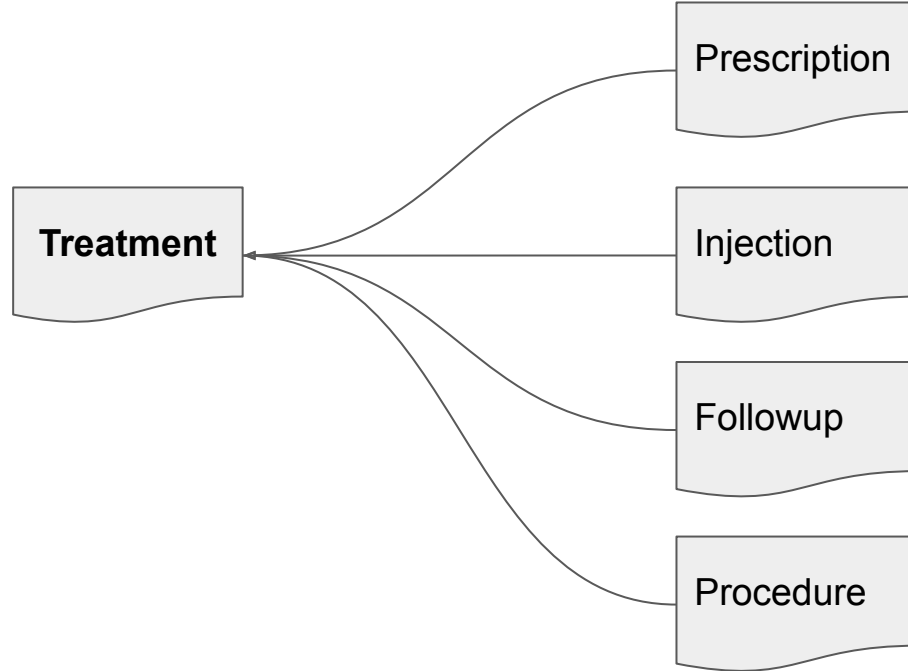
Source control

- GitHub
- Organization `MissionMedical.github.io`

Information Architecture



Information Architecture



Next Steps

- Follow up: April 10, 2016
- Darci and Jamey meet with technical team to walk through designs and estimate how long programming will take
- Schedule mock session
- Mock session
- Beta trip with backup plan
- Complete Launch