

INF 5750

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Haimanot Fthum
Ghada Ali Shommo

Backup screenshots

Mandalorian GeoLoc app

Mandalorian Geo



Latitude Longitude [New Event](#) [Set My Location](#)

OrgUnit: Period: [Show Events](#)

Age

Admission Date

Discharge Date

Gender

Mode of Discharge

Mandalorian Geo

<http://apps.dhis2.org/dev/api/events/zTo7wallJ>
 Org Unit: DiszpKrYNg8
 Event Date: 2013-12-24 00:00:00.0
 EStored By: admin
 Program: eBAyeGv0exc
 Lat: 59.434091
 Long: 10.658382999999999
 Diagnosis: A00 Cholera

Map Satellite

Google

Terms of Use

Hint: right-click on map to set location.

Period:

Orgunit:	DiszpKrYNg8		Program:	eBAyeGv0exc		
Lat	Long	Diagnosis	Age	Gender	Admission	Discharge
0	0	A029 Salmonella infection, unspecified	19	Female		
0	0	A029 Salmonella infection, unspecified	19	Female		
0	0	C108 Overlapping lesion of oropharynx	23	Male		
0	0	A001 Cholera due to Vibrio cholerae 01, biovar eltor	23	Female		
0	0	A029 Salmonella infection, unspecified	19	Female		
0	0	A00 Cholera	33	Male		
0	0	B50 Plasmodium falciparum malaria	123	Male		



Hint: right-click on map to set location.

Period: 2013-11-01

2013-12-24

Show Events

Set My Location

Orgunit:	DiszpKrYNg8	Program:	eBAyeGv0exc
Lat	Long	Diagnosis	Age Gender Admission Discharge
0	0	A029 Salmonella infection, unspecified	19 Female
0	0	A029 Salmonella infection, unspecified	19 Female
0	0	C108 Overlapping lesion of oropharynx	23 Male
0	0	A001 Cholera due to Vibrio cholerae 01, biovar eltor	23 Female
0	0	A029 Salmonella infection, unspecified	19 Female
0	0	A00 Cholera	33 Male
0	0	B50 Plasmodium falciparum malaria	123 Male
0	0	D100 Lip	19 Female
0	0	C101 Anterior surface of epiglottis	23 Male
0	0	A029 Salmonella infection, unspecified	19 Female
0	0	A029 Salmonella infection, unspecified	19 Female
0	0	A029 Salmonella infection, unspecified	19 Female
0	0	A029 Salmonella infection, unspecified	19 Female
0	0	A029 Salmonella infection, unspecified	19 Female
0	0	B16 Acute hepatitis B	18 Male
59.434091	10.658382999999999	A00 Cholera	11 Male
0	0	A029 Salmonella infection, unspecified	19 Female

Program: Inpatient morbidity and mortality ▾

OrgUnit: Ngelehun CHC ▾

New Event

Latitude 59.434091

Longitude 10.658382999999999

Event date 2013-12-24

Age 11

Discharge Date 2013-12-24

Admission Date 2013-12-24

Gender Male ▾

Mode of Discharge Discharged ▾

Diagnosis (ICD-10) A00 Cholera

Save

The scope and what each group member has done

- Face-to-face meetings to discuss DHIS2, features, tasks and code changes 1-2 times a week.
- Everyone installed local DHIS2 databases and participated in coding and testing.
- Everyone studied the DHIS2 documentation for the API
- We investigated the DHIS2 API early on testing retrieving HTML, XML and JSON data and discussed together how to design the app and the functionality and features of DHIS2
- Haimanot suggested a number of useful collaboration tools, such as Trello.com to manage task assignment and using a google document logbook for the group to track progress.
- Group agreed on using git as repository and Claus set this up for the group on github.
- Haimanot and Claus worked together using bootstrap and the manifest to get the initial sourcebase going.
- Claus was responsible for the google map (location selection, markers, zoom level, etc.), as well as the code to retrieve and store events with location and display events for a selected program, orgUnit and period as well as markers for those events and coded and tested this and other functionality testing against apps.dhis2.org/demo and then /dev as well as local DHIS2.
- Ghada was responsible to find ways to get the information we needed to get a dynamic form up based on the chosen program. So she studied the API in detail, and this was helpful when writing the code.
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- Claus also looked into using angular by looking at Lars' example app, but decided that we did not need it for our relative simple functionality and decided to stick with building our app from bootstrap.
- Haimanot and Ghada worked together on retrieving the program fields for a selected program, displaying these and then using Claus' JSON code to save the events.
- Haimanot was able to contribute her previous knowledge on web development, Claus wrote a lot of code and kept communication going through updating the logbook and email
- Claus looked into how we might develop a phone app but was not convinced it made sense as we developed the APP to live inside DHIS2 and so would be accessible on a mobile device through a browser.
- Claus looked into cross-origin resource sharing (CORS) in relation to the mobile app.
- Ghada experimented with android phone app code and both she and Haimanot also did their own custom JSON experiments while working to understand how to retrieve the DHIS2 program API data.
- Group members were not afraid to make changes to each-other's code and some learning was involved with making sure not to break code that others have written and using git properly to merge with previous changes.
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The technologies and frameworks you've used.

- Javascript
- JQuery
- Bootstrap
- Google Maps
- Git and Github
- Android Development Tools and Genymotion (experimenting only)
- Trello.com
- Google Docs
- DHIS 2 with postgresql
- Eclipse
- Firefox and Chrome
- RESTClient plugin
- JSONView plugin
- The course wiki

Problems and issues you've met during development

- DHIS2 locations were not initially working so that caused some confusion.
- The development instance of DHIS2 was very unstable and often would not work and so delayed early testing and progress.
- A lot of time was spent on hard to figure out JQuery issues where RESTClient would work, but not the app code.
- Installing local DHIS 2 database worked for one group member, but required several installs for the rest due to strange problems and had difficulties running the installed app for unknown reasons.
- Learning to use git caused some code to be overwritten because of code changes not being merged.
- Fully understanding how the app would work with DHIS 2 in the early stages was a challenge and delayed start of design and coding.

Any suggestions to improvements in DHIS2 APIs or other, including any changes you've had to do on DHIS2 code.

- A reset to default button for the app settings page would have been nice.
- While some loadings go on background it would have been nice to be able to disable the page
- The layout could have been better

Information about tasks you've done beyond the minimum expected. Things like mobile client, unit tests, build framework, innovative features etc.

- Group members experimented with android app development, but was not included in final code.
 - Genymotion was used by some group members for faster emulation testing.
 - Testing on actual android phone was also tried.
- Created custom markers in the form of pins with detailed event data and link the XML data available on clicking the pin.
- Able to set location based on both your location and right clicking the google map.
- Populated the orgUnit selector based on the selected program.
- Event fields dynamically generated from the selected program.