

IBB University Lapai, Vodan Initiative

The Journey so far

By

Dr. Ibrahim ABDULLAHI

Mission and Vision Of IBB University Lapai, Niger State

- **Mission**

- Committed to Producing World-Class graduates for the pursuit of all round excellence through quality research, teaching and community service.

- **Vision**

- To be a World-Class Centre of excellence driven by people, partnership and technology.

Meeting with the Management

- The Head of the IBBUL Team (Dr. Ibrahim Abdullahi and Assoc. Prof. Yahaya Aliyu Badeggi) Lead the other members of the Vodan group to meet the Management of the University. The Management of the university graciously accept the initiative and promise to give its support on all facilities require to kick start the project.

Journey so far

- The management of the university has make provision for a dedicated environment for uninterrupted power supply for the project.
- The management of IBB university Lapai has also graciously made provision of dedicated systems for the project.

Meeting with the Management



Assoc. Prof Badeggi, Handing over the Letter to the VC IBBUL Prof. Abu Kasim

Meeting with the Management



Assoc. Prof Badeggi, VC IBBUL Prof. Abu Kasim, and the DVC Admin. Prof. Mohammed Saba Mohammed

Meeting with the Management



Dr. Ibrahim Abdullahi, and the VC on the occasion of Handing over the Letter to the VC IBBUL

Meeting with the Management



Dr. Ibrahim Abdullahi, Engr Elijah Joseph and Mr. Jamilu Yahaya Mai-Panuku on the occasion of Handing over the Letter to the VC IBUL

Journey so far

- The management of the University Promise to liase with the state government and ministry of health on other focal hospital to use for the project.

Fair Data point installation

- The IBB university lapai team has start the installation FDP for windows. The team involve in the installation and setting up of the facilities include.
- Engr. Elijah Joseph
- Mr. Jamilu Yahaya Maipan-uku
- Mr. Abdullahi abubakar Kawu
- Dr. Abubakar Adamu

Local Deployment of FDP

- The Team task with the deployment of FDP, has already carried out the local deployment of FDP

The screenshot displays a web browser window with the address bar showing 'localhost:8080'. The page title is 'FAIR Data Point'. The main content area features the 'FAIR Data Point' logo and the title 'IBBUL FAIR Data Point'. Below the title, there is a description: 'This FAIR Data Point will contain the metadata of datasets and other artefacts to the COVID-19 pandemic in hospital (incidence centres) IBBUL University, Niger State'. To the right of the description is an 'Edit' button. Below the description, there is a 'Catalogs' section with a '+ Create' button. A catalog titled 'COVID-19 CRFs' is listed, with a description: 'This catalog contains patient CRFs following the WHO standard'. Below the catalog description, it shows 'Issued 15-07-2020' and 'Modified 15-07-2020'. To the right of the catalog, there is a metadata table:

Metadata Issued	Metadata Modified
15-07-2020	15-07-2020

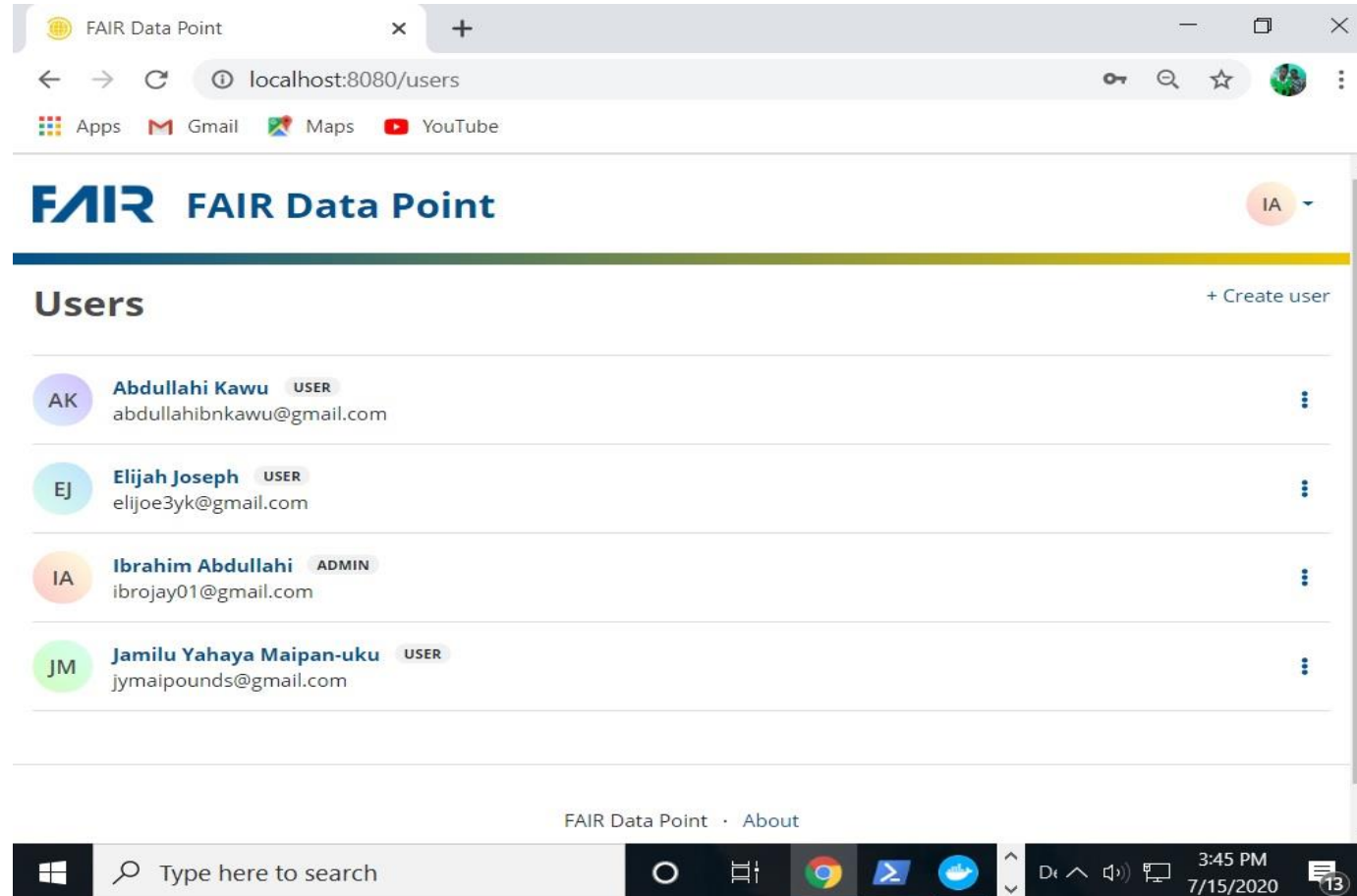
Below the metadata table, there are several fields:

- Version: 1.0
- Language: en
- License: cc-by-nc-nd4.0
- Start date: 10-07-2020
- Last update: 14-07-2020

The browser's taskbar at the bottom shows the Windows logo, a search bar with the text 'Type here to search', and several application icons including Chrome, VS Code, and a terminal. The system tray on the right shows the time '3:40 PM' and the date '7/15/2020'.

Local Deployment of FDP

We have been able to create users on the localhost.



The screenshot shows a web browser window with the address bar displaying 'localhost:8080/users'. The page title is 'FAIR Data Point'. The main content area is titled 'Users' and includes a '+ Create user' link. Below the title, there is a list of four users, each with a circular profile picture, name, role, and email address. The users are:

- Abdullahi Kawu** (USER) - abduallahibnkawu@gmail.com
- Elijah Joseph** (USER) - elijoe3yk@gmail.com
- Ibrahim Abdullahi** (ADMIN) - ibrojay01@gmail.com
- Jamilu Yahaya Maipan-uku** (USER) - jymaipounds@gmail.com

At the bottom of the browser window, the Windows taskbar is visible, showing the search bar, taskbar icons, and system tray with the time 3:45 PM on 7/15/2020.

Local Deployment of FDP

- We have been able to create sample catalog on our local host

FAIR Data Point

localhost:8080/catalog/56051fb4-bb56-4c02-8c18-48245b8a6c5f

COVID-19 CRFs

Owner Edit Settings Delete

This catalog contains patient CRFs following the WHO standard

Datasets

+ Create

There are no datasets.

Metadata Issued 15-07-2020 Metadata Modified 15-07-2020

Version 1.0

Language en

License cc-by-nc-nd4.0

Issued 15-07-2020

Modified 15-07-2020

Download PDF

Type here to search

3:38 PM 7/15/2020

Production Deployment

- The team has start the production deployment but face with some challenges in the course of deployment.

Errors encountered in production deployment

```
computer@USER: /opt/fdp
chown: missing operand after 'computer:computer.'
Try 'chown --help' for more information.
computer@USER: /opt/fdp$ sudo usermod -aG docker computer
computer@USER: /opt/fdp$ sudo su computer
computer@USER: /opt/fdp$ groups
computer adm dialout cdrom floppy sudo audio dip video plugdev netdev docker
computer@USER: /opt/fdp$ sudo chown -HR computer:computer .
computer@USER: /opt/fdp$ ls -al
total 0
drwxr-xr-x 1 computer computer 4096 Jul 11 11:47 .
drwxr-xr-x 1 root      root      4096 Jul 11 11:47 ..
computer@USER: /opt/fdp$ mkdir nginx
computer@USER: /opt/fdp$ ls -al
total 0
drwxr-xr-x 1 computer computer 4096 Jul 11 11:54 .
drwxr-xr-x 1 root      root      4096 Jul 11 11:47 ..
drwxrwxr-x 1 computer computer 4096 Jul 11 11:54 nginx
computer@USER: /opt/fdp$ mkdir nginx/sites-{available,enabled}
computer@USER: /opt/fdp$ ls -al ./nginx/
total 0
drwxrwxr-x 1 computer computer 4096 Jul 11 11:55 .
drwxr-xr-x 1 computer computer 4096 Jul 11 11:54 ..
drwxrwxr-x 1 computer computer 4096 Jul 11 11:55 sites-available
drwxrwxr-x 1 computer computer 4096 Jul 11 11:55 sites-enabled
computer@USER: /opt/fdp$ nano docker-compose.yml
computer@USER: /opt/fdp$ nano ./nginx/nginx.conf
computer@USER: /opt/fdp$ nano ./nginx/letsencrypt.conf
computer@USER: /opt/fdp$ nano ./nginx/sites-available/fdp.conf
computer@USER: /opt/fdp$ nano ./nginx/sites-available/fdp.conf
computer@USER: /opt/fdp$ cd nginx/sites-enabled/
computer@USER: /opt/fdp/nginx/sites-enabled$ ln -s ../sites-available/fdp.conf
computer@USER: /opt/fdp/nginx/sites-enabled$ ls -al
total 0
drwxrwxr-x 1 computer computer 4096 Jul 11 12:34 .
drwxrwxr-x 1 computer computer 4096 Jul 11 12:29 ..
lrwxrwxrwx 1 computer computer 27 Jul 11 12:34 fdp.conf -> ../sites-available/fdp.conf
computer@USER: /opt/fdp/nginx/sites-enabled$ cd -
/opt/fdp
computer@USER: /opt/fdp$ docker-compose up -d proxy
ERROR: yml.scanner.ScannerError: while scanning a simple key
  in "/docker-compose.yml", line 17, column 13
could not find expected ':'
  in "/docker-compose.yml", line 19, column 5
computer@USER: /opt/fdp$
```

Errors encountered in production deployment

```
computer@USER: /opt/fdp
computer@USER: /opt/fdp$ mkdir nginx
computer@USER: /opt/fdp$ ls -al
total 0
drwxr-xr-x 1 computer computer 4096 Jul 11 11:54 .
drwxr-xr-x 1 root root 4096 Jul 11 11:47 ..
drwxrwxr-x 1 computer computer 4096 Jul 11 11:54 nginx
computer@USER: /opt/fdp$ mkdir nginx/sites-{available,enabled}
computer@USER: /opt/fdp$ ls -al ./nginx/
total 0
drwxrwxr-x 1 computer computer 4096 Jul 11 11:55 .
drwxr-xr-x 1 computer computer 4096 Jul 11 11:54 ..
drwxrwxr-x 1 computer computer 4096 Jul 11 11:55 sites-available
drwxrwxr-x 1 computer computer 4096 Jul 11 11:55 sites-enabled
computer@USER: /opt/fdp$ nano docker-compose.yml
computer@USER: /opt/fdp$ nano ./nginx/nginx.conf
computer@USER: /opt/fdp$ nano ./nginx/letsencrypt.conf
computer@USER: /opt/fdp$ nano ./nginx/sites-available/fdp.conf
computer@USER: /opt/fdp$ nano ./nginx/sites-available/fdp.conf
computer@USER: /opt/fdp$ cd nginx/sites-enabled/
computer@USER: /opt/fdp/nginx/sites-enabled$ ln -s ../sites-available/fdp.conf
computer@USER: /opt/fdp/nginx/sites-enabled$ ls -al
total 0
drwxrwxr-x 1 computer computer 4096 Jul 11 12:34 .
drwxrwxr-x 1 computer computer 4096 Jul 11 12:29 ..
lrwxrwxrwx 1 computer computer 27 Jul 11 12:34 fdp.conf -> ../sites-available/fdp.conf
computer@USER: /opt/fdp/nginx/sites-enabled$ cd -
/opt/fdp
computer@USER: /opt/fdp$ docker-compose up -d proxy
ERROR: yaml.scanner.ScannerError: while scanning a simple key
  in "/docker-compose.yml", line 17, column 13
could not find expected ':'
  in "/docker-compose.yml", line 19, column 5
computer@USER: /opt/fdp$ nano docker-compose.yml
computer@USER: /opt/fdp$ docker-compose up -d proxy
ERROR: yaml.scanner.ScannerError: while scanning a simple key
  in "/docker-compose.yml", line 17, column 13
could not find expected ':'
  in "/docker-compose.yml", line 19, column 5
computer@USER: /opt/fdp$ nano docker-compose.yml
computer@USER: /opt/fdp$ docker-compose up -d proxy
ERROR: Couldn't connect to Docker daemon at http+docker://localunixsocket - is it running?
If it's at a non-standard location, specify the URL with the DOCKER_HOST environment variable.
computer@USER: /opt/fdp$
```


Next Plan

- The team and the management of the university would want to meet the Niger State Ministry of health to get a commitment document on data collection.
- IBBUL Case record form data fields
- Linux/Windows nodes

Challenges so far

- Our Installations are on Windows Platform, and currently there are no guide on FDP deployment on windows, we recommend that the VODAN technical team to look at creating a platform where windows would be used for deployment.
- We also recommend integration of local deployment platform with the production deployment, so that all team members would be able to move at the same pace.

IBBUL and Covid-19 in Nigeria

- The school has been in the forefront of fight against the global pandemic of covid-19 in Nigeria

IBBUL and Covid-19 in Nigeria

- The Nigeria Centre for disease control has come for inspection of a molecular lab for testing of Covid-19 samples in the school and we are hopeful that in no distance time we would have a testing centre in the school.

IBBUL and Covid-19 in Nigeria

- Already researchers in IBBUL have publish their findings on Covid-19 on the link below

IBBUL and Covid-19 in Nigeria

- Others in the department of computer science have also develop a covid-19 dashboard.
- New publication by Faculty members: <https://www.medrxiv.org/content/10.1101/2020.08.04.20168112v1>

IBBUL and Covid-19 in Nigeria

