Team Iron / Judit Chang, Michael Colombini, Katelynn Hull, Kira Maximova, Abdullah Pathan, Gavin Rios, John Wasikye

Weekly Development Report #4.

Performance Period: **Wednesday, 02/01 - Tuesday, 02/07**

1. **Group Accomplishments:** <designated team member (John) should summarize group accomplishments>
   - Created several tables in the database to practice making SQL statements and queries
   - Completed Lab 1, section 4
   - Tested that the volume that we will use for the database can be backed up from MySQL Workbench
   - Made changes to the settings in MySQL Workbench so that we will able to execute SQL statements directly in the Docker container
   - Set up a test user with limited privileges
   - Katelynn and Judit created the SQL statements to set up the first data tables that are needed for the two static sites

2. **Individual Contributions/Accomplishments:** (to be filled out by each individual)

- **Judit Chang**
  - I made further enhancements to the Prototype MFCD.
  - I completed Lab1, section 4.
  - I researched Database Design, found some useful videos:

    https://docs.google.com/document/d/1dFsWnaL0M8Nr32BDWaSZxJxbeYFBX9obE6dy2UUjLIo/edit#

  - In our Team meeting, with the help of Dr. Miller, we:

    - clarified the exact setup and use of the Docker volume and the Docker container for the database: we will have a designated Docker volume for the database, and a designated Docker container, which we will start and stop when the program requires its use

    - clarified that a Dockerfile will not be needed for the database

    - clarified and tested that the volume that we will use for the database can be backed up from MySQL Workbench, and thus, in case the volume would accidentally get deleted, we could restore the whole database

- made changes to the settings in MySQL Workbench so that we will able to execute SQL statements directly in the Docker container (in case there would be some problem with the connection between MySQL Workbench and the VM) & ran some SQL statements in the Docker container

- set up a test user with limited privileges → based on this we will set up the three user roles for our prototype development

  o Katelynn and I set up user groups for the database: front end, back end - unfortunately couldn't finish it because connection to database was lost.
  o I researched SQL naming conventions, and Katelynn and I agreed on and wrote down the conventions that we will use for the Refill.Me database.
  o Katelynn and I created the SQL statements to set up the first data tables that are needed for the two static sites (Container Guide, Advocacy & Petition sites that will be delivered in Sprint 1.)
    o When we tried to create data tables, we received the error message "Error Code: 3675. Create table/tablespace 'store_type' failed, as disk is full." Katelynn and I reached out to Prof. Hosni, Dr. Miller and CS Root to resolve this problem.
  o Katelynn and I worked on the database design.
  o I researched how to store user login information in databases.
  o I researched how to work with geo coordinates / geo locations in MySQL.

- **Michael Colombini**

  o Worked on connecting the backend to the database.

  o Worked on and finished section four of Lab 1.

  o Worked on writing requirements for user stories.

  o Currently working on creating django models.

  o Researching how to connect Django with React Native.

- **Katelynn Hull**

  o I finished section 4 of lab 1.

  o I created a table in the database to practice making sql statements and queries.

  o I tried to create another small table, but ran into the following error: "Error Code: 3675. Create table/tablespace 'store_type' failed, as disk is full." I saved my work as an SQL text file and am

currently researching how to resolve this. I have set up a meeting with our mentor and will hopefully have this fixed soon.

- o I worked on the database design with Judit.
- o I created SQL statements with Judit to set up the first database tables to be used for the Container Guide and advocacy and petition sites, which can be deployed as soon as the error is resolved.
- o Judit and I began setting up user accounts for the database.

- **Kira Maximova**
  - o Worked on Section 4 for Lab 1
  - o Attempted to connect SQL to VM without luck; also tried to link to local outside the VM environment - still unable to see Container table
  - o Due to the issue that the back-end team experience, no team work done, individual only
  - o Going through the 'helping' files that were shared last Friday by Prof. Hosni

- **Abdullah Pathan**
  - o Worked on section 4 of the Lab 1 draft
  - o Locally tried running Docker containers after local setup, had multiple issue with Kernel on desktop, moved to laptop, works successfully
  - o Tried building React Native + Expo docker container locally
  - o Met with Gavin for front-end side progression and next steps towards dev env setup

- **Gavin Rios**
  - o Worked on section 4 of lab 1
  - o Built and containerized a small react native/expo app
  - o Collaborated with Abdullah on identifying blockers and questions, setting up development environment, and identifying next steps

- **John Wasikye**

- o   Finished section 4 of lab 1

- o   Researched docker compose

- o   Researched using docker with django

- o   Researched docker framework in creating a website

- o   Learned and tested some docker commands that can run on the vm

- o   Troubleshooting docker working on my local machine

3. **Issues/Concerns:**

- ● Setting up a stable connection to the backend to the database on the VM seems to be very challenging. Michael made great progress, and I believe that we are close to having a solution, thus, hopefully this will be resolved soon.
- ● Disk space problem prevents the database team from creating data tables, even though the database is empty.