

Udabno Diesel Tracking

July 2019

Overview

The purpose of the Udabno Diesel Application is to accurately record the usage of all diesel use within Udabno each day. As there will be three diesel pumps in the future with a different employee responsible for recording all diesel pumped at each pump, it is in the best interest of the group to build a basic application that can be accessed via tablet/smartphone to record each diesel fill up.

Goals

1. **Easy UX for Diesel Attendants to enter activity:** As the local employees are not very familiar with mobile applications, the interface and ease of use needs to be as easy and straight-forward as possible.
2. **Database on shared drive to record activity:** The management team works from Tbilisi so it is ideal for the entries from the application to be stored within an Excel sheet or other simple/accessible database in a shared drive on the company server.

Specifications

Overall Application

- Private Application written in JavaScript (Initially to be used on Android)
- Home screen with only one option (possibly to be expanded upon in the future)
- End Application Users: Pump Attendants
- End Data Users: Accounting, Finance and Company Director
- Daily Diesel Entries are auto sent to the Excel Database file on the shared drive when within WiFi.
- English / Georgian language (if possible)

Diesel Entry Screen

Required Entry Fields

- Name (Text Entry)
- Number of Liters (Number Entry)
- Tractor ID Number (Number Entry)
- Purpose (Drop Down List)
- Pump Number (Drop Down List)
- Signature / Capture Image
- Auto Fill in coordinates of where the entry was recorded/submitted

Examples:

The image displays two screenshots of a mobile application interface for 'ADJARA GROUP'.

The left screenshot shows the main menu with a large circular button labeled 'Diesel Entry'.

The right screenshot shows the 'Diesel Entry' form. The title is 'Diesel Entry'. Below the title, it says 'Please Enter the below details for each Diesel Use.' The form contains the following fields:

- Name *
- Number of Liters *
- Tractor Number *
- Purpose *
- Pump Number *
- Sign Here* (with a signature icon)
- 41.70685623310665,44.77813278329072 (with a location pin icon)

At the bottom of the form is a 'Submit' button.

Excel Log File

Accessible from internal Shared Drive at Udabno, the Excel log file needs to be updated automatically with new entries when tablet reaches WiFi.

- Name, Number of Liters, Tractor ID Number, Purpose, Pump Number, Signature or Image file, coordinates.
- To reduce overall cost, this would ideally be setup in a way to avoid recurring costs such as a new email address, Google Drive, Dropbox, Etc.

Example:

	A	B	C	D	E	F	G	H	I
1	Date	Time	Name	# of Liters	Tractor Number	Purpose	Pump Number	Signature / Image File	Submission coordinates
2	1/7/2019	9:08:00	Marina	80	3	Harvesting	2	File	41.704851142622964,44.786887791958
3	1/7/2019	19:21:42	Nino	45.5	2	Watering	3	File	41.704851142622964,44.786887791958
4	2/7/2019	14:53:00	Oto	13.42	52	Transportation	1	File	41.704851142622964,44.786887791958
5	2/7/2019	6:05:07	Nino	53.99	72	Harvesting	3	File	41.704851142622964,44.786887791958
6	2/7/2019	9:56:44	Marina	65.01	14	Watering	2	File	41.704851142622964,44.786887791958
7	2/7/2019	7:44:32	Oto	80.03	32	Watering	1	File	41.704851142622964,44.786887791958
8	2/7/2019	13:54:01	Nino	6.44	22	Transportation	3	File	41.704851142622964,44.786887791958
9									
10									
11									
12									

Questions

1. Development Time Needed
 - Hours, Days or Weeks Needed?
2. Initial Costs and Recurring Costs

Initial Costs

- Application Development
- Three Android Tablets / Phones
- Google Play Developer Fee \$25 (No iOS needed as of now)
- ???

Recurring Costs

- ???

3. Developer Needs

- Access to Shared File?