WORKFLOW-IO



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Section 1 - Websites

System overview

These websites eases the workflow of an admin and agent. There are three websites in total:

- 1. Admin portal: Allows the admin to add or remove a plumber, add an agent and view statistics.
- 2. Agent Portal: allows the agent to add a new case, close cases that are completed, view statistics and risk factors.
- 3. Feedback portal: allows the clients to give feedback on the service provided to them.

System Configuration

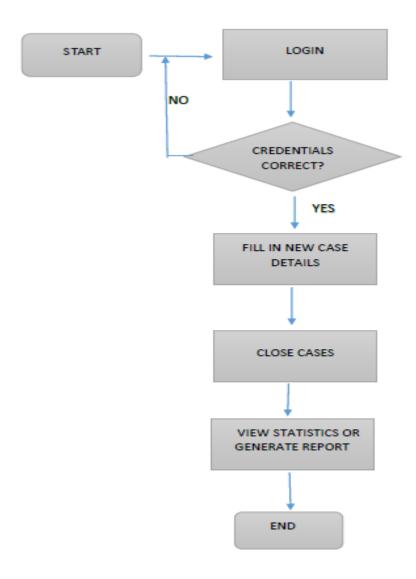
This website works across all the web browsers. Furthermore, it communicates with the database for all events that are performed by the admin. To access this website, internet connection is required.

Website URL

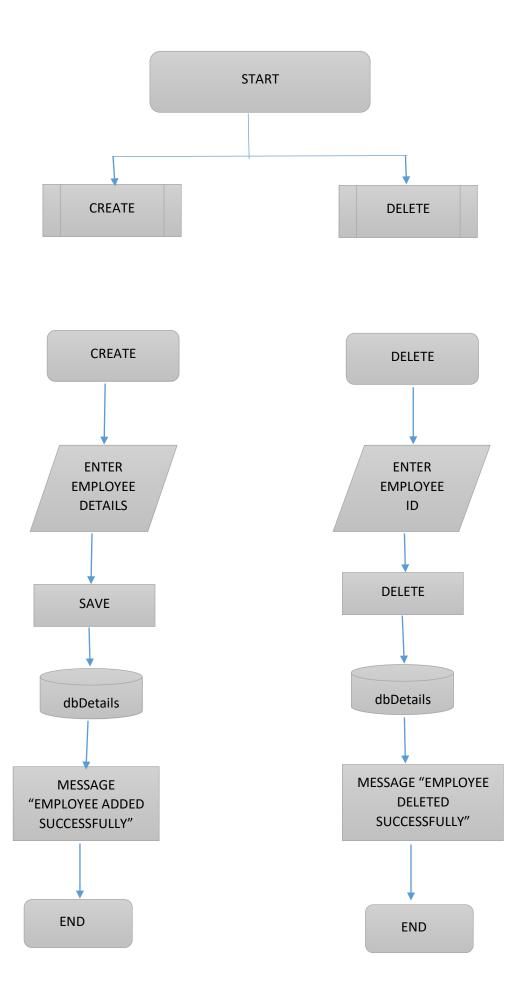
Below is the url to access the website: https://tk-naidu.github.io

Getting Started

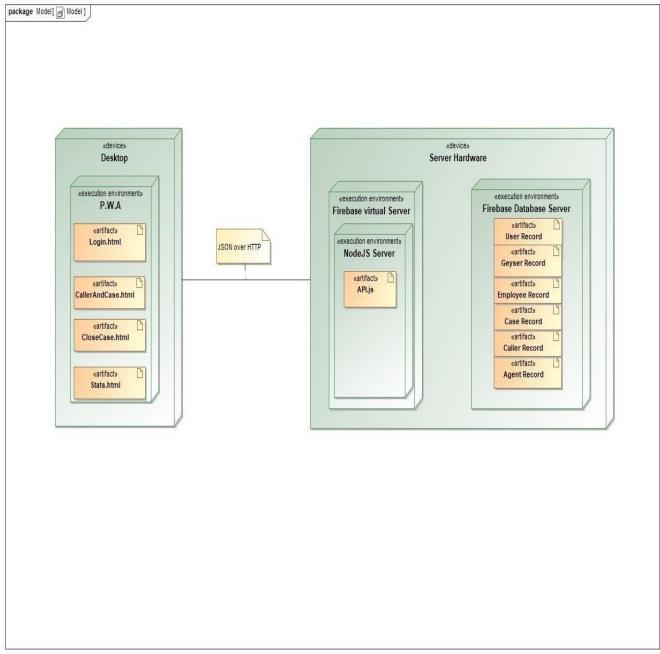
Below is typical walkthrough (in a form of flowchart) of the website:



Workflow to add and delete an employee



Deployment Diagram

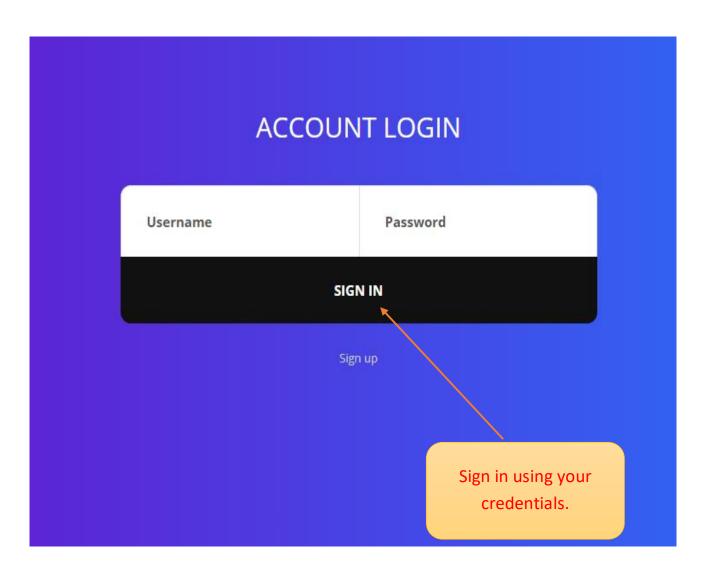


This deployment model basically gives you an overview of the system and what artifacts and technologies are used to deploy this system.

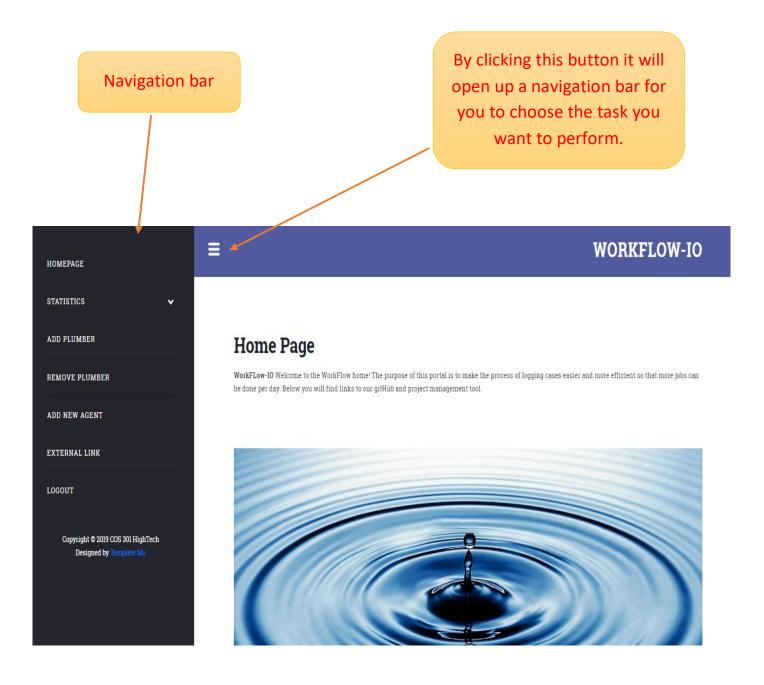
Guidelines as how to use these website

1. Admin Portal

1.1 Login Page: the admin enters his/her credentials. Based on the role, appropriate task will be displayed for the admin to perform.

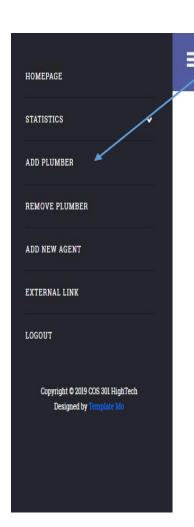


1.2 Home Page: When you login this is the home page that will be displayed.



1.3 Adding a plumber

Click here to add a new plumber.



Home Page

WorkFLow-IO Welcome to the WorkFlow home! The purpose of this portal is to make the process of logging cases easier and more efficient so that more jobs can be done per day. Below you will find links to our gitHub and project management tool.

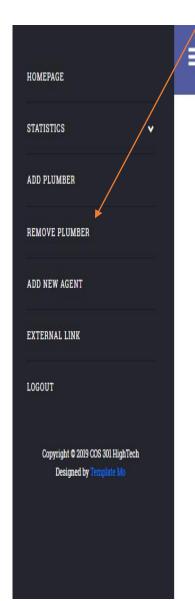
WORKFLOW-IO



Add New Plumber Note: Plumber's details can be copy-pasted below from the CV else you can manually type it out **AUTO FILL** ID number Name Cell Number Address Plumber ID Plumber Password GENERATE PLUMBER ID GENERATE PLUMBER PASSWORD Attach CV Attach ID copy Choose File No file chosen Choose File No file chosen Attach other supporting documents Choose File No file chosen Click on choose file to upload supporting documents for the SUBMIT new plumber.

1.4 Removing a plumber

Click here to remove plumber.



WORKFLOW-IO

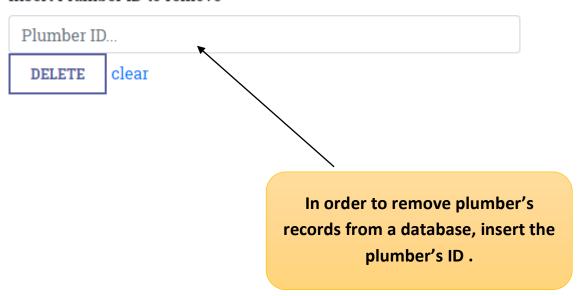
Home Page

WorkFLow-IO Welcome to the WorkFlow home! The purpose of this portal is to make the process of logging cases easier and more efficient so that more jobs can be done per day. Below you will find links to our gitHub and project management tool.

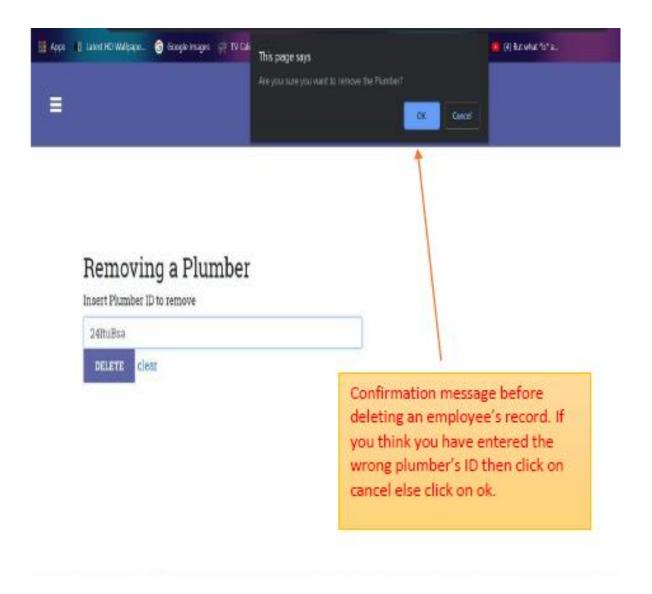


Removing a Plumber

Insert Plumber ID to remove



Example for removing a plumber



1.5 Add a new agent

Click here to add a new agent.



WORKFLOW-IO

Home Page

WorkFLow-IO Welcome to the WorkFlow home! The purpose of this portal is to make the process of logging cases easier and more efficient so that more jobs can be done per day. Below you will find links to our gitHub and project management tool.

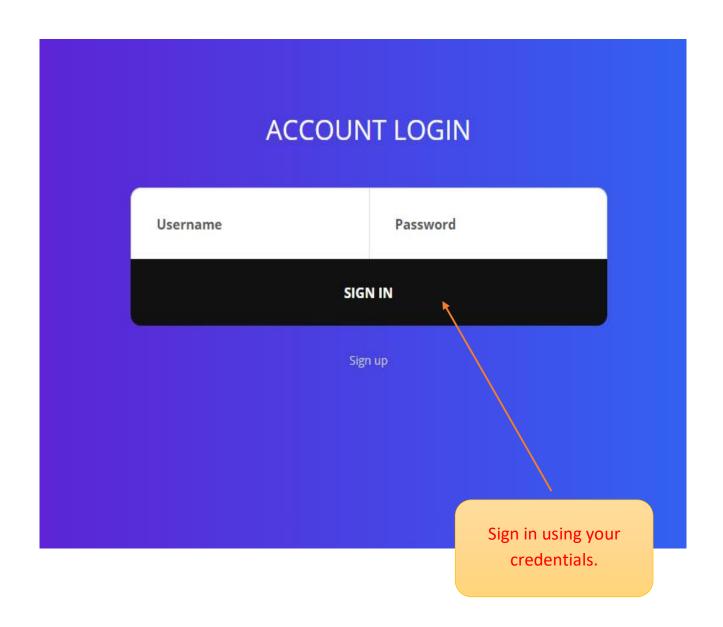


Sign Up New Agent

Full name	
Agent ID	
Note: please click the generate button to create an ID.	

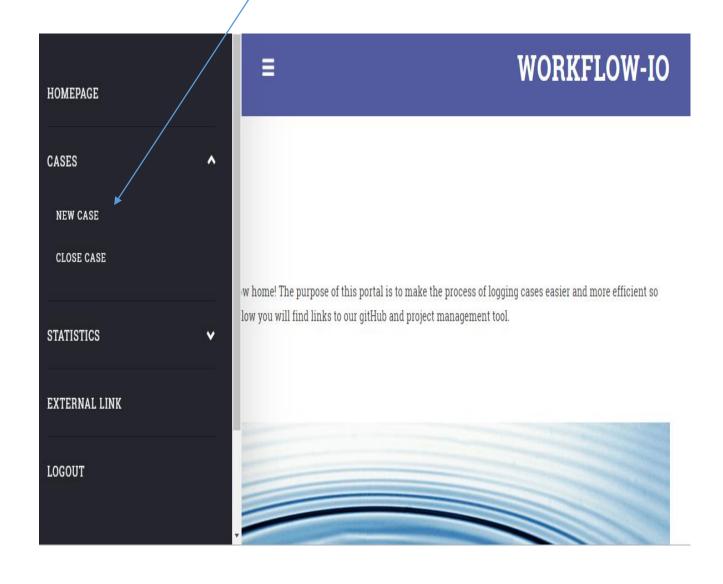
GENERATE AGENT ID	
Password	
Note: Generate or type your own password.	
Show Password	
GENERATE AGENT PASSWORD Confirm Password	
SIGNUP	
	By clicking this button you will get a suggested password which we highly recommend
	for security purpose otherwise you can create your own password.

2.Agent Portal



2.1 Enter new case

Click here to create a new case.



Caller Identification Note: Paste the client details below VERIFY THE CONTENT **AUTO FILL** Name Surname Address Cell Number Call back number Client Type Service Type Reason

Generating Case Report

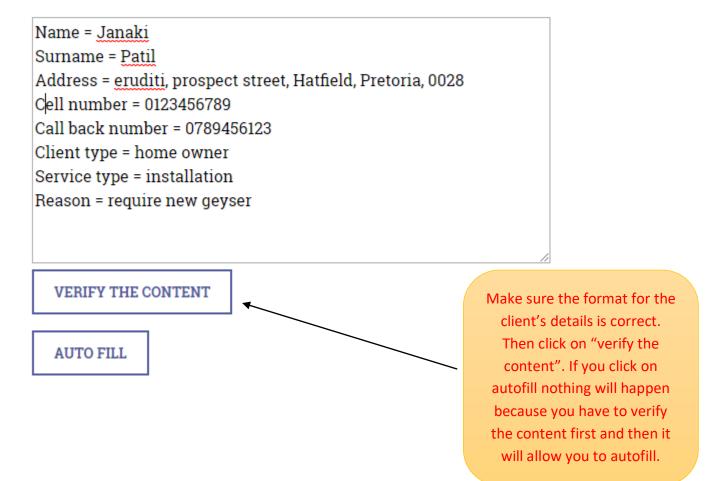
Case ID	Caller ID			
GENERATE CASE ID Incident Date	GENERATE CALLER ID Case Description			
GET CURRENT DATE Case Status				
completed				
Plumber ID	Case Opened by (Agent ID)			

SUBMIT

Example of generating a new case report

Caller Identification

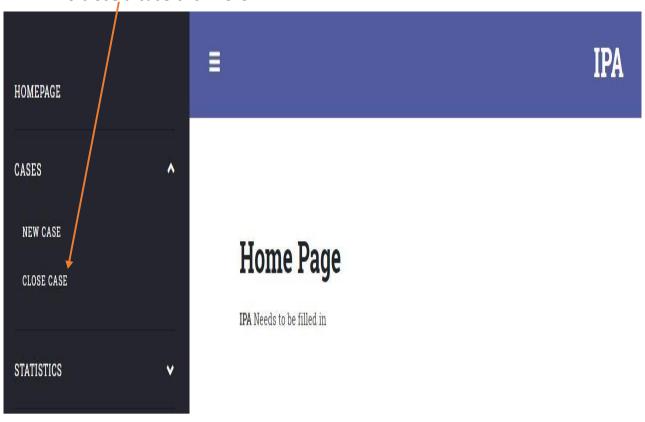
Note: Paste the client details below





2.2Closing a case

To close a case click here:



By clicking on the "view cases that needs to be closed "button, a list of cases will be displayed that needs to be closed and then enter you agent ID in order to close it. Below is an example as how to close a case/cases.

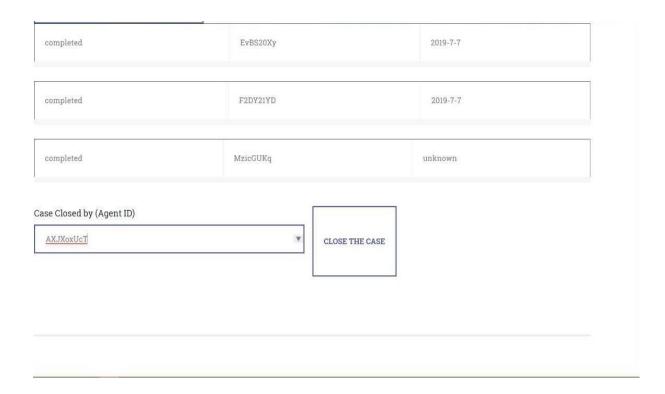


When "view case that needs to be closed" button clicked a list of cases are shown:

VIEW CASES THAT NEEDS TO BE CLOSE			
completed	EvBS20Xy	2019-7-7	
completed	F2DY21YD	2019-7-7	
completed	MzicGUKq	unknown	
se Closed by (Agent ID)	CLOSE TI	HE CASE	
	CLOSE II	III ONOL	

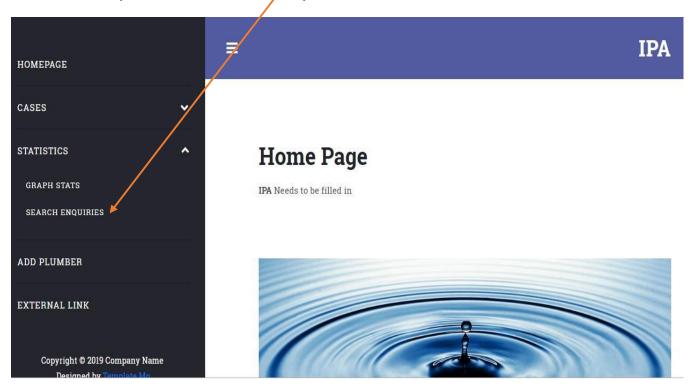
Choose your agent ID from the drop down and click "close the case" button.

 \Rightarrow



Searching for cases handled by a specific plumber

⇒ To perform search functionality click here:



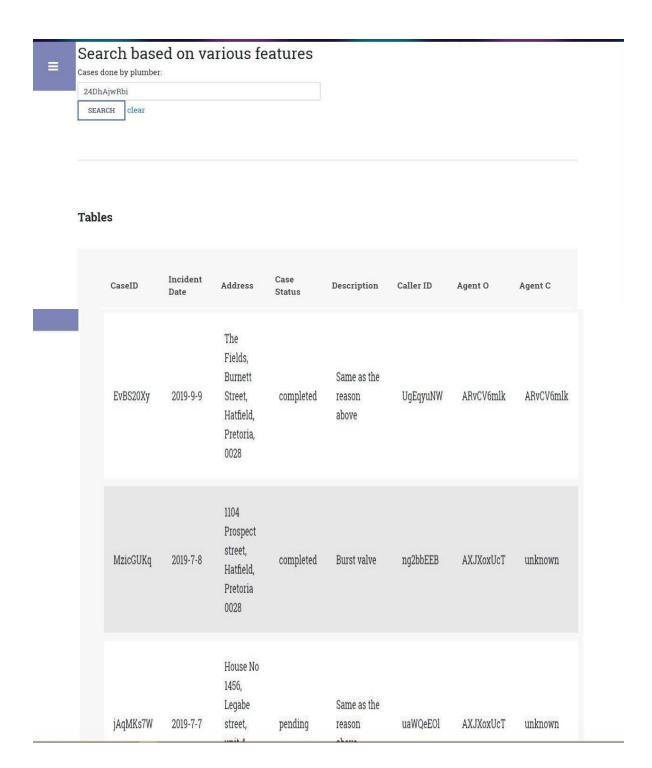
Enter the plumber's ID to get details on the cases handled by a specific plumber.



Tables

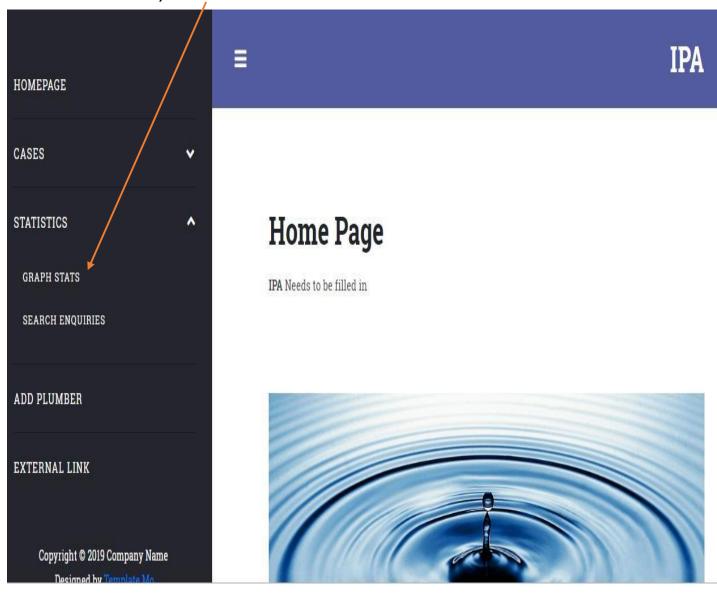
CaseID	Incident Date	Address	Case Status	Description	Caller ID	Agent O	Agent C
--------	------------------	---------	----------------	-------------	--------------	------------	------------

=>Example of searching for case handled by plumber ID 24DhAjwRbi

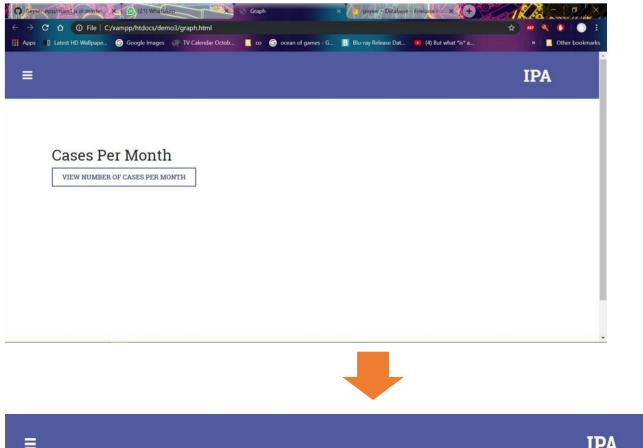


Statistics

To view Statistics, click here:



Click on the button called "view number of cases per month " to get an overview of the cases handled per month.







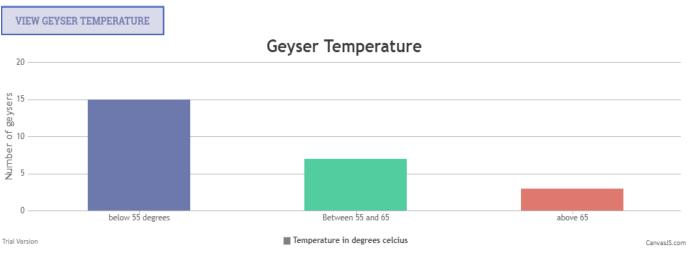
Click here to view risk factors **WORKFLOW-IO** HOMEPAGE CASES STATISTICS **GRAPH STATS** w home! The purpose of this portal is to make the process of logging cases easier and more efficient so low you will find links to our gitHub and project management tool. SEARCH ENQUIRIES RISK ANALYSIS **EXTERNAL LINK**

Risk analysis

LOGOUT

When you click on geyser temperature button, it will will you the graph and table as shown below. This will tell you which geysers for which caseID are at high risk based on their temperature set.

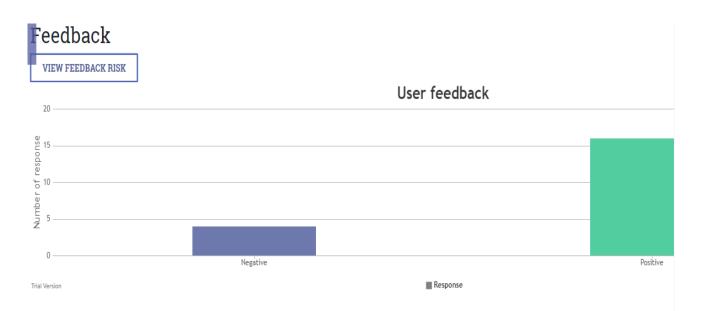
Geyser Temperature



Tables

CaseID	GeyserTemperature	Capacity
0B3Zl2OU	82	150L
FYmyocDF	65	100L
GjuqY0UN	100	250L
3c3oWlEm	63	100L

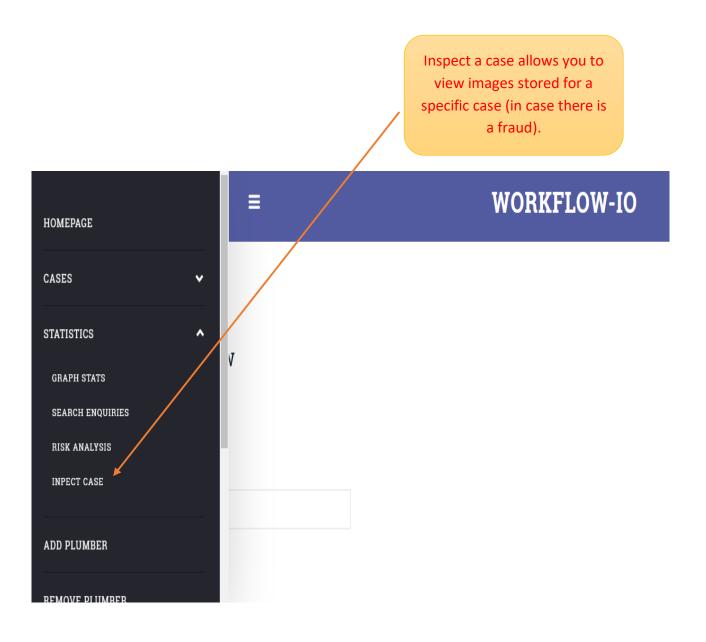
When you click on view feedback risk button, it will show you how many reviews are negative and positive. Those reviews that are negative, the table below will show you which case this review is coming from.



Negative review case

PlumberID	CaseID	CaseOpenedOn
24DbXsyVhZ	F2DY21YD	2019-7-7
24iYRIBgrd	MY9DwdgP	2019-7-7
24N8gqUbzf	cBTQ3I2d	2019-3-18
testID	gINxocMP	2019-7-19

Inspect a case



Select case to View

Enter a case number to view installation images for it.

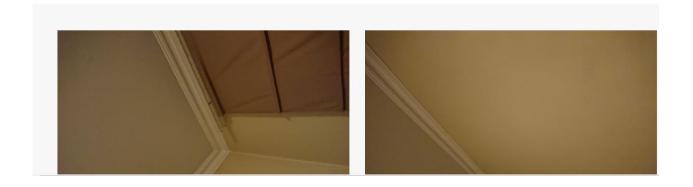
Enter Case ID to view

0mzXSBJo

VIEW A CASE

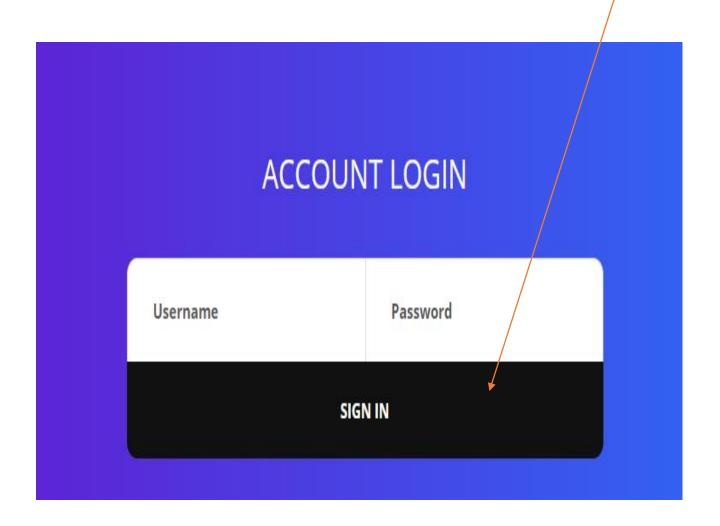
Case ID	Incidente Date	PlumberID	Case Closed By	Number Of Cases For Caller	Review	Review Score	Insurance Status	Geyser Tempture
a	a	a	admin	undefined	a	3	yes	62

Images



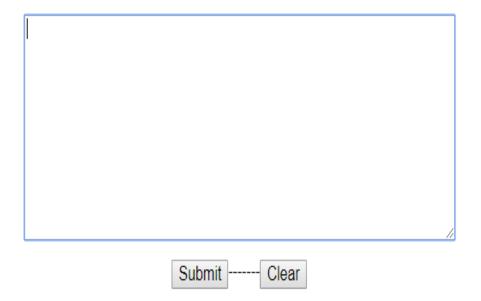
3.Feedback Portal

Agents need to give the clients their credentials in order for them to provide a feedback.



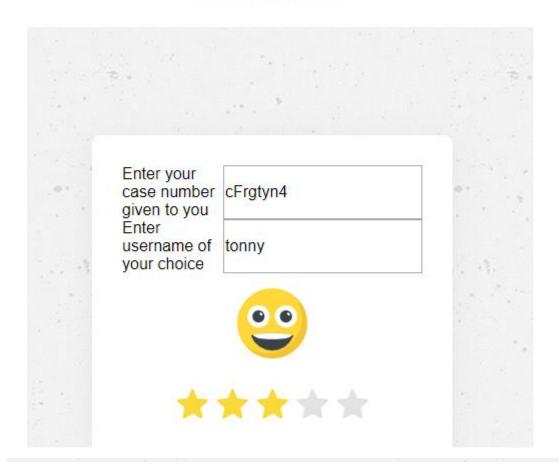
Client should enter his/her case number and username of their choice. Also rate the service by clicking on the stars [1st star are being bad and 5th star are excellent service]. After that gives comments.

Additional comments on our service provided.



Example of feedback given

Feedback



Additional comments on our service provided.

good service provided			
			//
		7	
	Submit Clear		

Troubleshooting

Error messages will appear if required fields that need to be filled in have been left blank. In this instance an error message in red will appear underneath the required field. This occurs when filling in case details, new employee's details, login and sign up page. This can be avoided by filling in the required fields.

<u>Section 2 - Plumber app</u>

System Overview

Summary: Information about the geyser and its installation, including relevant documents, are recorded and kept on a database in order to ease the installation process.

Plumbers: The app intends to help the user through any documentation a they might do for a geyser installation/repair.

Homeowners: The app intends to provide a way for users to access information about their registered geyser(s).

Administrators: User data is stored online in a remote, secure database for any queries that the admin requires data for.

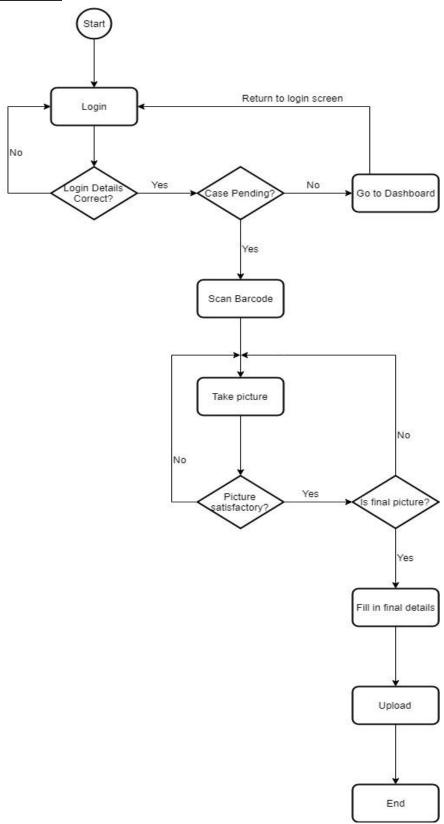
System Configuration

This app works on all mobile devices running an Android Operating System, minimum version Oreo. The app communicates with the database on two occasions, one for a login process and once more when either retrieving or sending records from the database for an installation/repair or a data query. The application requires any internet connection to work.

Installation

This software is provided by the administrator. The APK for installation can be found on our project Github page under the "Build" folder. To install simply run the apk on the device and when prompted whether sure or not press "install anyways".

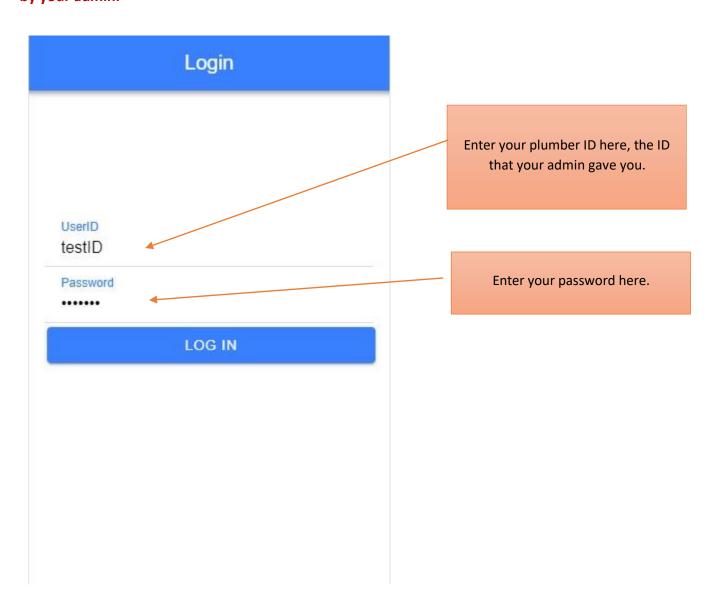
Getting Started



Using the System

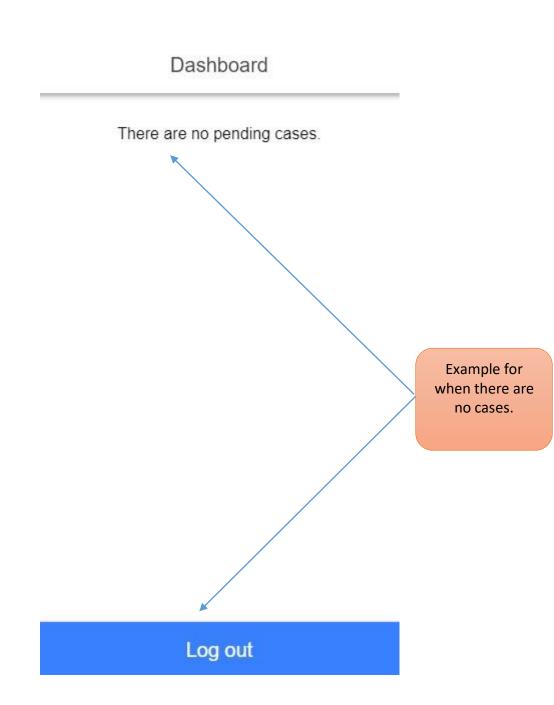
Logging in

In order to proceed with the app you will have to login using your credentials given to you by your admin.



Dashboard

This is the Dashboard. Should the user have a pending case to work on the dashboard will be skipped and the process for installation/repair will automatically begin, else the user will be told they have no pending cases and can log out.



Barcode Scanner

There is only button here and it is the "Scan code" button. This identifies the geyser that the user will be working on.

Barcode Scanner

Press Button To Scan

SCAN CODE

Press this button to open the barcode scanner and place the barcode within the field to scan it.

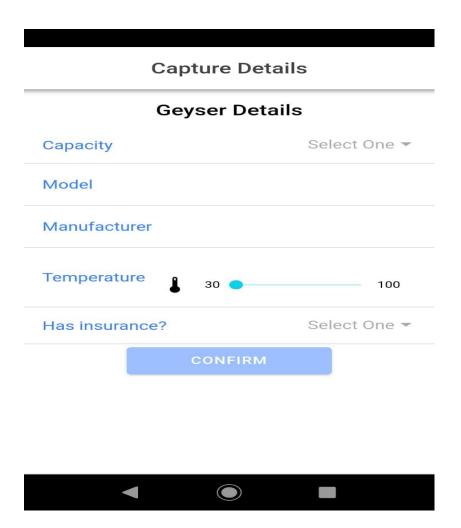
Camera

This screen prompts the user to take pictures of the corresponding geyser part. Pressing the "Open Camera" button will open the camera to take a picture. Once a picture has been taken the user will be given a preview of the picture and the option to retake the picture using the "Retake picture" option depicted below. If the user is satisfied with the picture they can press the "Confirm" button to proceed to the next image.



Geyser Detail Capture

All details from top to bottom: Capacity, Model, Manufacturer, Insurance must be filled out and are required in order to be able to press the "Confirm" button and send the details to the database. This is especially important as this is the step where the data is sent to the database. The actual sending only happens after pressing "Confirm". An alert will inform the user that the details were sent. Capacity is a drop down list to conform to database values.



Troubleshooting

Error messages will appear if required fields that need to be filled in have been left blank. In this instance an error message in red will appear underneath the required field. This occurs on the login page and on the details page. This can be avoided by filling in the required fields.