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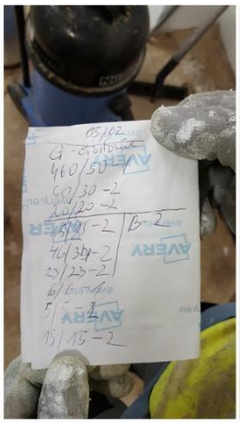
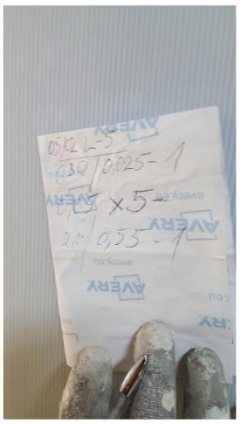
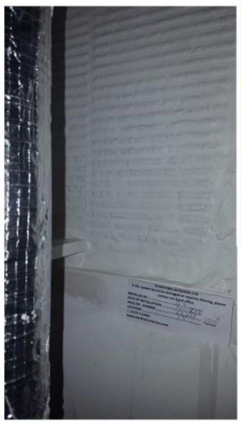
PFP Notes

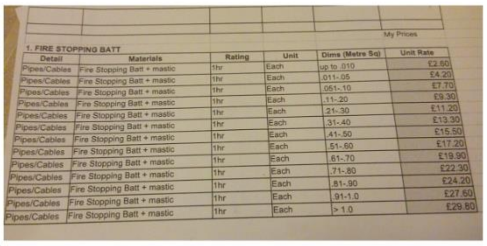
Description

This app is going to be a small company app and useful for me and my colleagues. At present we use any kind of paper (*which is often lost*) to record the location and dimensions of the holes that we isolate with fire protection materials. After that the team leader take the notes of each workers and walk around holes taking pictures and putting check label on them. Separately he must calculate the price of each hole based on a *price list* depends on its size. All this happens slowly and takes a long time. I think this app help us to reduce time and accuracy for processing the information and finally the information will be permanently stored accessible for any statistics.









My Prices

1. FIRE STOPPING BATT

Detail	Materials	Rating	Unit	Dims (Metre Sq)	Unit Rate
Pipes/Cables	Fire Stopping Batt + mastic	1hr	Each	up to .010	£2.60
Pipes/Cables	Fire Stopping Batt + mastic	1hr	Each	.011-.05	£4.20
Pipes/Cables	Fire Stopping Batt + mastic	1hr	Each	.051-.10	£7.70
Pipes/Cables	Fire Stopping Batt + mastic	1hr	Each	.11-.20	£9.30
Pipes/Cables	Fire Stopping Batt + mastic	1hr	Each	.21-.30	£11.20
Pipes/Cables	Fire Stopping Batt + mastic	1hr	Each	.31-.40	£13.30
Pipes/Cables	Fire Stopping Batt + mastic	1hr	Each	.41-.50	£15.50
Pipes/Cables	Fire Stopping Batt + mastic	1hr	Each	.51-.60	£17.20
Pipes/Cables	Fire Stopping Batt + mastic	1hr	Each	.61-.70	£19.90
Pipes/Cables	Fire Stopping Batt + mastic	1hr	Each	.71-.80	£22.30
Pipes/Cables	Fire Stopping Batt + mastic	1hr	Each	.81-.90	£24.20
Pipes/Cables	Fire Stopping Batt + mastic	1hr	Each	.91-1.0	£27.60
Pipes/Cables	Fire Stopping Batt + mastic	1hr	Each	> 1.0	£29.80

Intended User

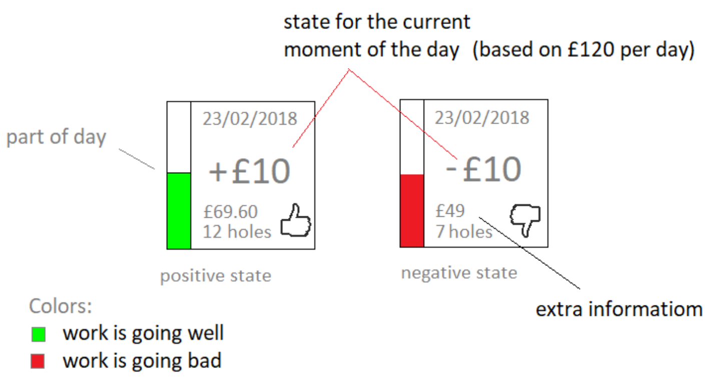
This app will be for the workers of the company where I work.

Features

- Saves information
- Takes pictures
- Offline work and internet sync

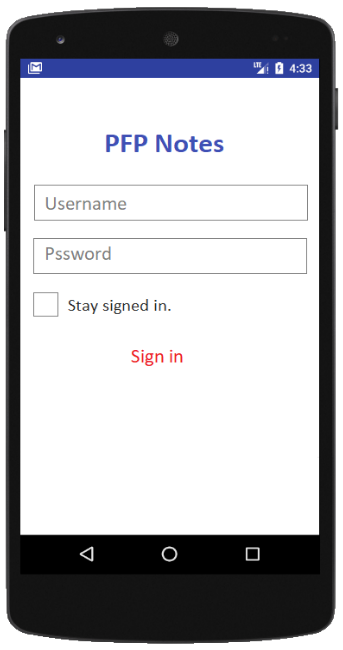
User Interface Mocks

Widget



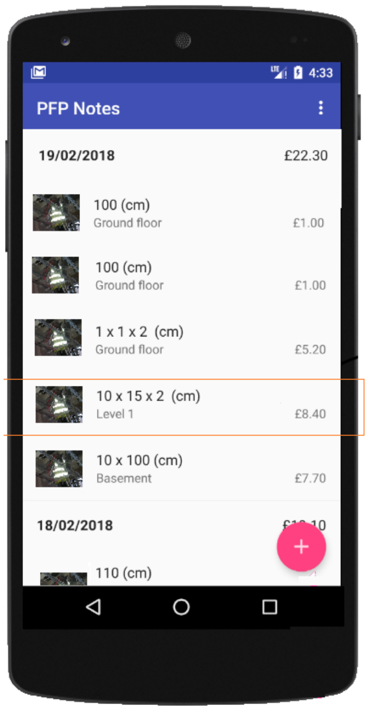
App widget will show the current state of the work that is done.

Screen 1



This will be the first screen user will see when start the app. Each worker will receive a username and password to will be recognized in the system. Switching on the *"Stay signed in."* check box, they will be saved as **Shared Preferences** (the username will be used to identify the worker). The goal is this screen to be used once in the beginning or after sync.

Screen 2



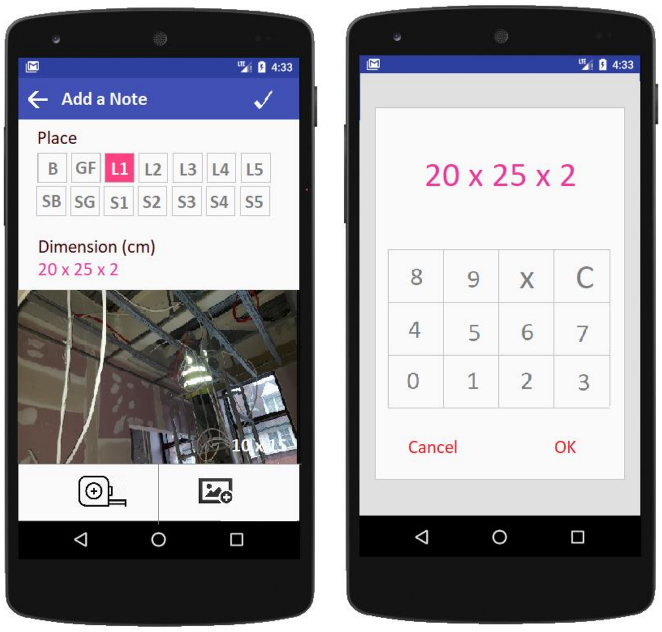
4:33

PFP Notes

19/02/2018	£22.30
100 (cm) Ground floor	£1.00
100 (cm) Ground floor	£1.00
1 x 1 x 2 (cm) Ground floor	£5.20
10 x 15 x 2 (cm) Level 1	£8.40
10 x 100 (cm) Basement	£7.70
18/02/2018	£10.10
110 (cm)	

When the worker is recognized from the app he/she will be able to see the list of notes he/she has already taken with some key details as thumbnail image, dimensions, location and the price of the job has done. The notes will be grouped by date and total price will be displayed.
This activity contains fab button to add next note.

Screen 3



4:33

Add a Note

Place

B	GF	L1	L2	L3	L4	L5
SB	SG	S1	S2	S3	S4	S5

Dimension (cm)
20 x 25 x 2

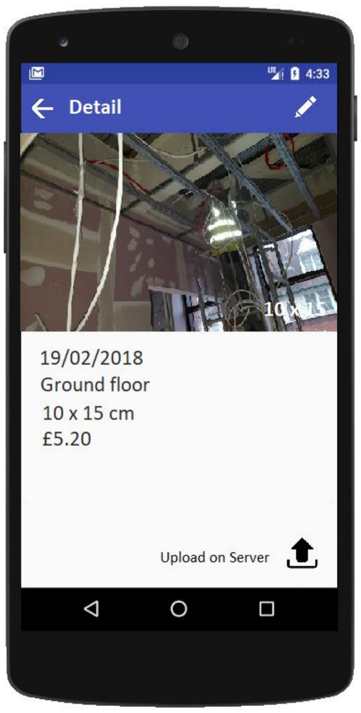
20 x 25 x 2

8	9	x	C
4	5	6	7
0	1	2	3

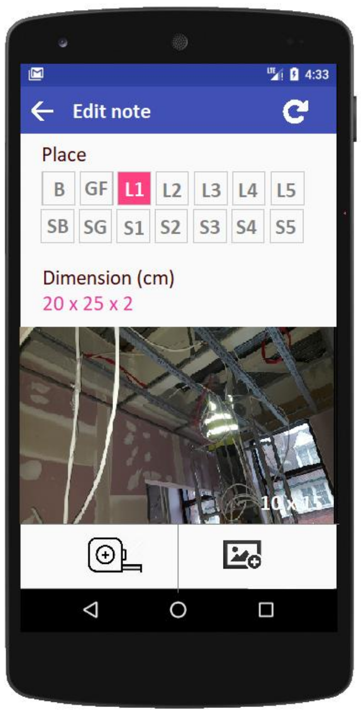
Cancel OK

Select place and use two buttons at the bottom for **dimension** (open a dialog for enter hole dimension) and **picture**. Dimension format is: ***width [x height [x layers (default is 1)]]***.
Click ✓ at the app bar to save the note.

Screen 4

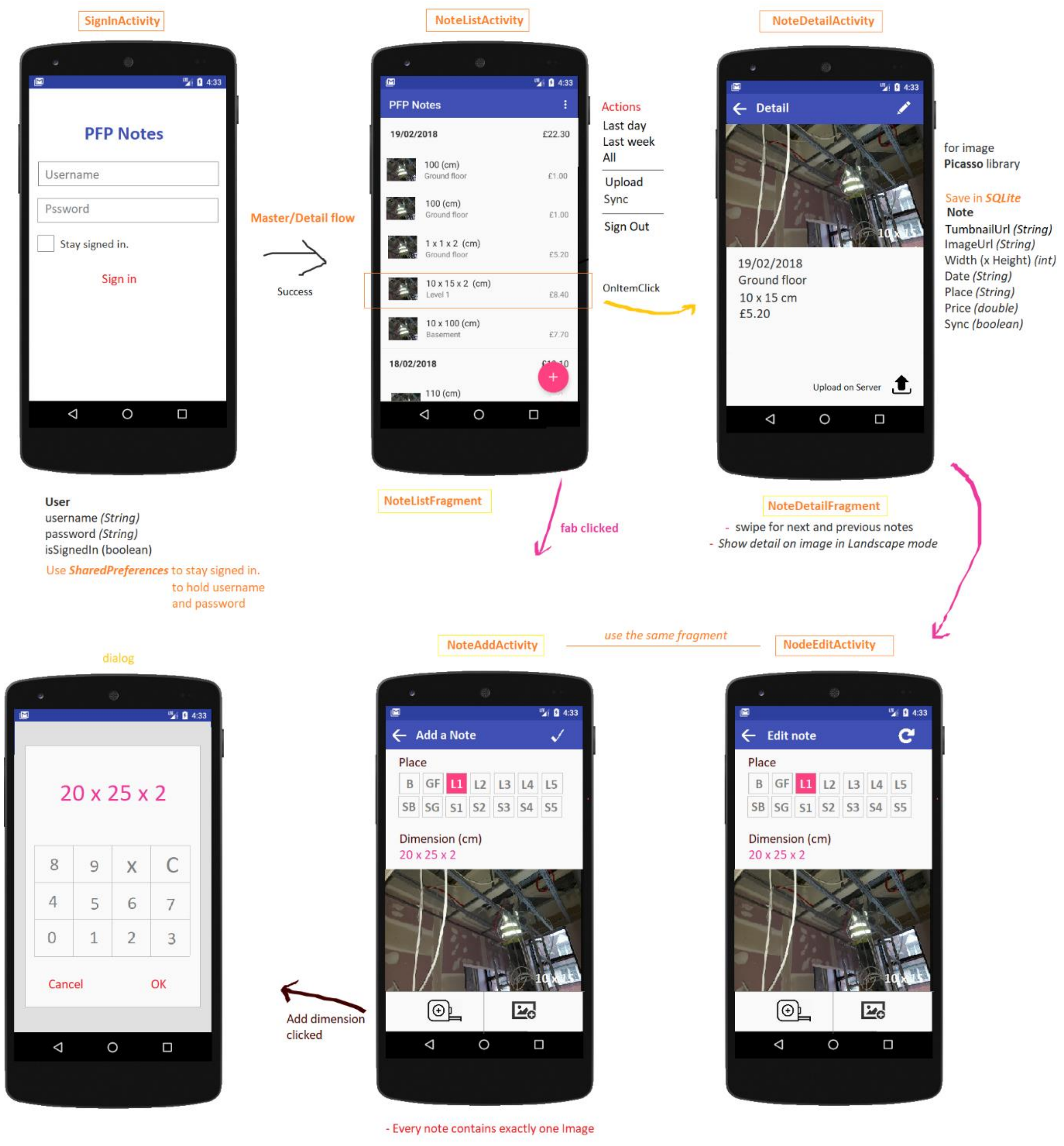


19/02/2018
Ground floor
10 x 15 cm
£5.20



This is detail screen. It is open when worker click the note item in the list from Screen 2. Here note can be edit and upload to server.

App will use Master/Detail flow.



Key Considerations

How will your app handle data persistence?

The app will have Content Provider and local database for offline working. Firebase Storage is going to use for image upload and Firebase Realtime Database for share some configuration settings (as price list and locations which will be set by admin). Firebase authentication will be used for user authentication.

Describe any libraries you’ll be using and share your reasoning for including them.

Picasso will be used to handle the loading and caching of images.

Describe how you will implement Google Play Services or other external services.

Firebase Cloud Storage
compile ‘com.google.firebase:firebase-storage:11.8.0’

Firebase Realtime Database
compile ‘com.google.firebase:firebase-database:11.8.0’

Firebase Authentication
compile ‘com.google.firebase:firebase-authentication:11.8.0’

Picasso
compile ‘com.squareup.picasso:2.5.2

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and break them down into tangible technical tasks that you can complete one at a time until you have a finished app.

Task 1: Project Setup

Implement Firebase services and add Firebase to the app.

Task 2: Implement UI for Each Activity and Fragment

- Build UI for SingInActivity
- Build UI for NoteListActivity (NoteListFragment)
- Build UI for NoteDetailActivity (NoteDetailFragment)
- Build UI for NoteAddActivity
- Build UI for NoteEditActivity

Task 3: Upload notes

At the end of the day or the week (when the worker decides, or the leader required it) each worker must upload the notes generated during the day/s.
To do this worked will use *Upload* command from the main menu.
Uploading will happen via AsyncTask using firebase methods (firebase APIs) for uploading data.