



# LABOUR & MATERIALS UPDATE

## CHALLENGE

Vitruvi field users need to be able to add multiple quantities of a labour or material. They may be working on the same project and in two different spots so it's not possible to simply add more length, they need to be able to add an additional quantity.

While we were in this area of the app, the UI had a few small usability issues:

- a. Additional functionality like comments and additional fields are hidden behind a swipe.
- b. It was hard to distinguish when skimming which information belonged to which title.

## COLLABORATORS



LEAD DEV



SUPPORT



CSM



PRODUCT OWNER

## TIME FRAME

PHASE 1



ASSESS EXISTING UI

Space is limited in the existing UI and we can't afford to make the information more complicated by adding more to the UI.

PHASE 2



IDEATE

Brainstorm ways this quantity feature can be improved.

PHASE 3



PROTOTYPE

Create wireframes based on brainstorming sessions. Turn wireframes into high fidelity prototypes.

PHASE 4



VALIDATE

Speak with internal stakeholders to make sure this new functionality meets the needs of our users.

# EXISTING UI

201117804 Line

WORK ITEM DESIGN ELEMENT FILES

DETAILS

STATUS  
Completed

COMMENTS  
Comments

LABOR & MATERIAL [+ Template](#)

[Assign on Map](#)

LABOR [+ Add new](#)

Gate Installation

EST 25	ACT*	0	REM*	0
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Digging

EST 115	ACT*	0	REM*	0
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MATERIALS [+ Add new](#)

Metal Gate

EST 25	ACT*	0	REM*	0
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Wood

EST 115	ACT*	0	REM*	0
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In the existing UI you will find the two categories at the bottom for 'Labor' and 'Materials'.

Within these categories are the different types of materials the field user actually used while working as well as the type of labour they did.

In order to add multiple of a material in this UI, the user needed to click 'Add New' which would bring up a picker list for them to choose the correct item. This item would be added to the list in order of date/time added.

I wanted to make this experience more intuitive and also organize the information better so all of the same type of material would be grouped together.

There is also some hidden functionality I wanted to bring forward so a new user would be able to find this easily. (Hidden functionality would be if you swipe left on one of these line items, you would find icon buttons that allow you to view comments and attributes

# IDEATING

✓ LABOR + Add new

**Digging**  
Digging\_01  
*Estimated: 115m, Remaining: 115m*  
ACT:\*  QTY:  Total:

Digging\_02  
*Estimated: 115m, Remaining: 115m*  
ACT:\*  QTY:  Total:

**Cable**  
*Estimated: 115m, Remaining: 115m*  
ACT:\*  QTY:  Total:

**Wire**  
*Estimated: 115m, Remaining: 115m*  
ACT:\*  QTY:  Total:

Wire - est: 115m

🔄 Wire\_01 Act:\*     Qty Total: 200

🔄 Wire\_02 Act:\*     Qty Total: 200

Rem:  Total: 400

✕ 201117804 Line 📍 🗑️

WORK ITEM DESIGN ELEMENT FILES

✓ DETAILS

STATUS  
Completed

COMMENTS  
Comments

LABOUR & MATERIALS  
Template: Customer installation 🗑️ remove

📍 Assign on Map

✓ LABOR + Add new

Drilling - est: 115m  
📍 Act:\*  Rem:  Qty

Digging ground - est: 115m  
📍 Act:\*  Rem:  Qty

✓ MATERIAL + Add new

Cable - est: 115m  
📍 Act:\*  Rem:  Qty

Telephone pole - est: 115m  
📍 Act:\*  Rem:  Qty

These were some rough ideas and variations on how I could add in this quantity functionality but they all appeared really complicated and messy. It felt overwhelming to look at so I needed to organize and present this in a way that didn't feel daunting for the user.

# SOLUTION

**WORK ITEM**   DESIGN ELEMENT   FILES

▼ DETAILS

STATUS  
Completed

COMMENTS  
Comments

**LABOUR & MATERIALS**  
Template: Customer installation [remove](#)

[Assign on Map](#)

▼ LABOR [+ Add new](#)

2 Drilling ^

Drilling	Act:*	50	<input type="text" value="2"/>	+
Qty Total: 100				
Drilling	Act:*	15	<input type="text" value="1"/>	+
Qty Total: 15				
Rem: 15				

Total: 400   Est: 115

[edit](#) [comment](#) [trash](#)

▼ MATERIAL [+ Add new](#)

Cable

Act:*	0	Rem:	200	<input type="text" value="1"/>	+
Qty Total: 200					

Total: 400   Est: 200

[edit](#) [comment](#) [trash](#)

I grouped the same labour items and material items so they are all in one place and colour coded the header which coordinates with the 'Assign on Map' function. You can also see the total number of those items next to the title.

You can also see right away if there are comments or attributes attached to this item.

To add quantities to an item, you would click the plus button and this will update your Qty total as well as the main total.

When the quantity changes you will see the total number update on the bottom left.

You can also collapse each section to make it easier when you have many items.

**LABOUR & MATERIALS**  
Template: Customer installation [remove](#)

[Assign on Map](#)

▼ LABOR [+ Add new](#)

2 Drilling ▼

Total: 400   Est: 115

[edit](#) [comment](#) [trash](#)