How do we make it easier for users to follow projects and tasks through every stage using the Construct mobile app?

Product/Client **Platform** Timeline **Apollo Construct** iOS, Android April 2019 - June 2019

User Experience, User Research Information Design, Wireframes, Interaction Design, High Fidelity Prototyping.

Role/Responsiblity

Revamped the UX and UI completely for the mobile app. Lead the redesign intiative.

With our users expecting to do an increasing number of things on the mobile app,

The Challenge

inconsistencies started to creep in, in both the flow and information architecture. We had to craft a more accessible, understandable app that affords all of Construct's existing features in a consistent, logical and coherent manner.

Over time, the demands of the Construct app have

managing tasks, updating drawings and recording daily

grown exponentially. What started as a tool for

logs, must now meet the needs of on-site workers across cities, in different situations - responding to schedule update requests, conducting inspections during different phases of a project, raising safety observations or even recording the observed weather conditions. Construct was being used for a variety of things that were never imagined at its inception. We worked closely with our PM's and on-site team both in India and the US, to design a better app. Here I'll be walking through how we redesigned the observations workflow.

Exploring the Pain Points

a good sense of the our users' painpoints:

complex and unintuitive.

*We want the app to be prompt and engaging." *I spend a lot of time to create an observation." "I'm not able to view the attached photos."

We didn't just want to address the major painpoints, we wanted to refresh the identity

understand the form while creating an observation. They found it

Our users found the old UI confusing and overwhelming. They spent more 7 seconds

We were maintaining a log of painpoints (across the app) internally, noting down the

painpoints we need to address. Even before the redesign effort commenced, we had

of the app and build a simple, frictionless experience for our users.

1. Our users were spending more than 7 seconds to simply

understanding the form and over 400 seconds to complete the process. We had users reporting not finding particular fields / calls-to-action, when in fact they were present. Often they had to return to the form, since they missed certain details. **Perception of Complexity**

We realised our users were scanning instead of reading. The first thing users did when

they saw the form was, estimate how long it would take to complete it. Perception was

crucial. When they saw too many fields, they were quick to abandon the process.

Cognitive Load and Interaction Cost

and reduce the amount of learning.

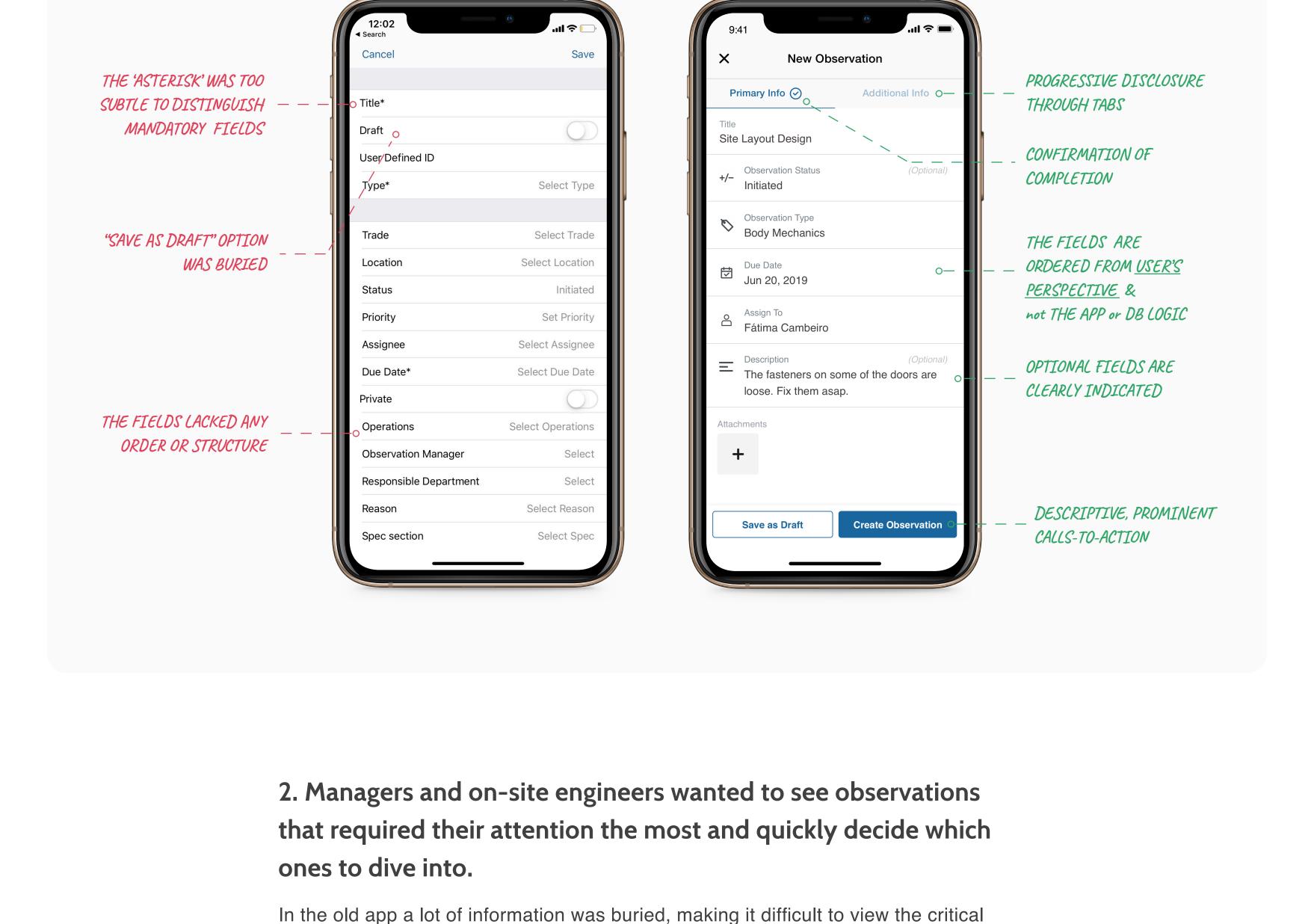
The old design presented all the fields stacked one below the other. The lack of hierarchy and structure and an increasing number of fields, made the form difficult to comprehend. The mental and physical load on the user were too high.

Our users were hesitant to fill out forms. So, our goal was to make the process of

existing mental models of our users. We used a simple layout to make it look familiar

filling out a form as easy as possible. We looked to avoid clutter and build on

In new design we focused on progressive disclosure of information and provided visual cues to make the form more glanceable and scannable



?

Filter

observations. Managers told us what information was valuable to them and when it is

most useful to see them. They wanted to see Observation Title, Status, Due Date,

We wanted to provide all these data points in one place, to help users decide which

observation to dive into. After a lot of chopping and changing, we eventually landed on

CONSISTENT FEEDBACK TO

INFORM THE USERS WHERE

A QUICK GLIMPSE OF THE

WORK-WEEK AHEAD.

THEY ARE

② 록 ?

Close

OBSERVATION 10121 • OPEN

Ladders used for access to

with walk through rails

upper / lower levels are provided

The doors have been fixed and are as per design. The

VISUAL WEIGHT TO CONVEY

CONSISTENT ALIGNMENT

IMPORTANCE

Observations 10

O UNION SOUTH BAY

Priority and Assigneé. On-site engineers wanted to see ID and type as well.

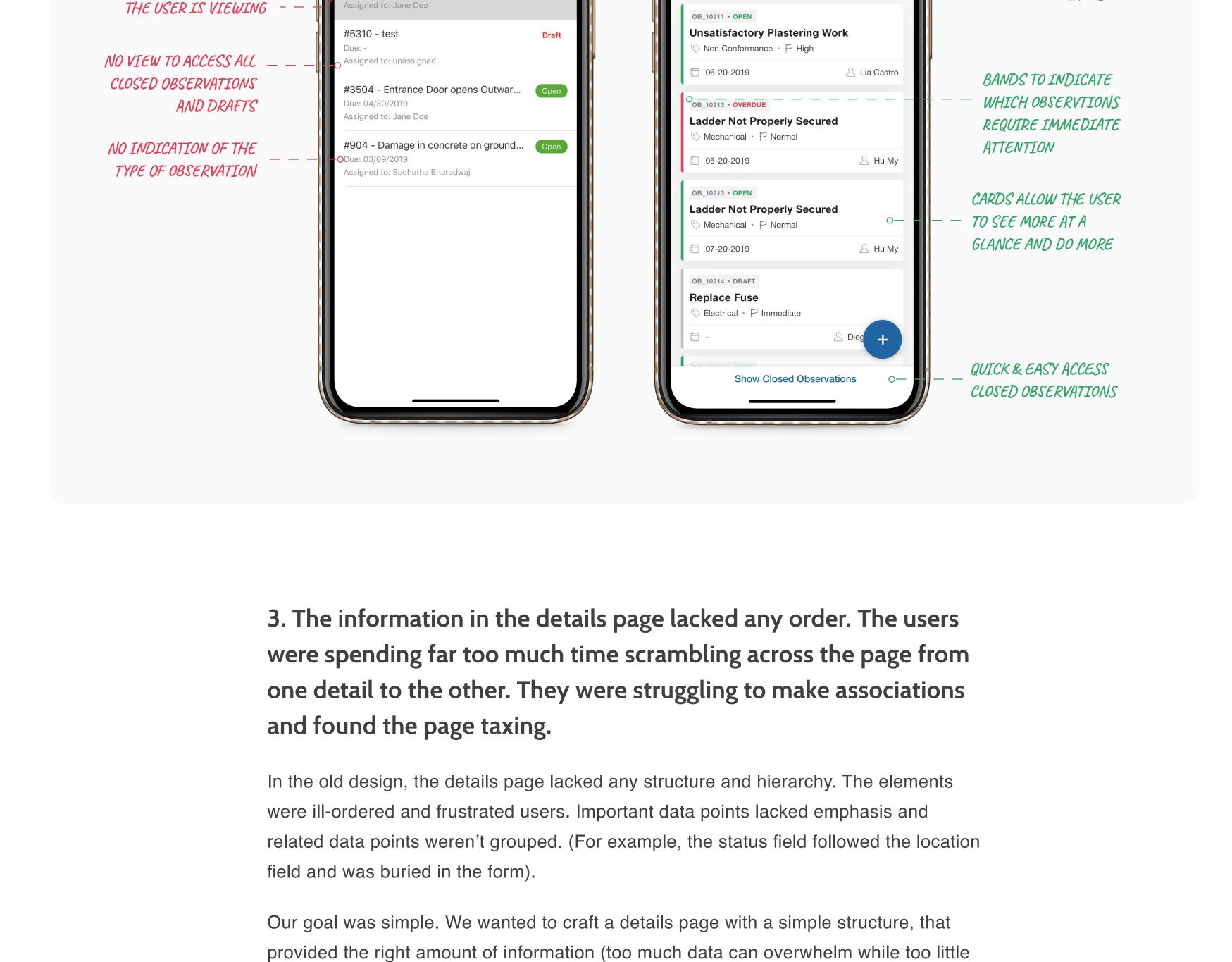
a consolidated card structure with all these data points.

〈 Back

NO INDICATION OF WHAT

Q Search Observations

#3755 - Entrance door opens outward...



can cause confusion). We wanted users to quickly understand what they see and find

what they want in a glance. We wanted the page to resemble a converstion.

Edit

Open

〈 Back

3 - QC

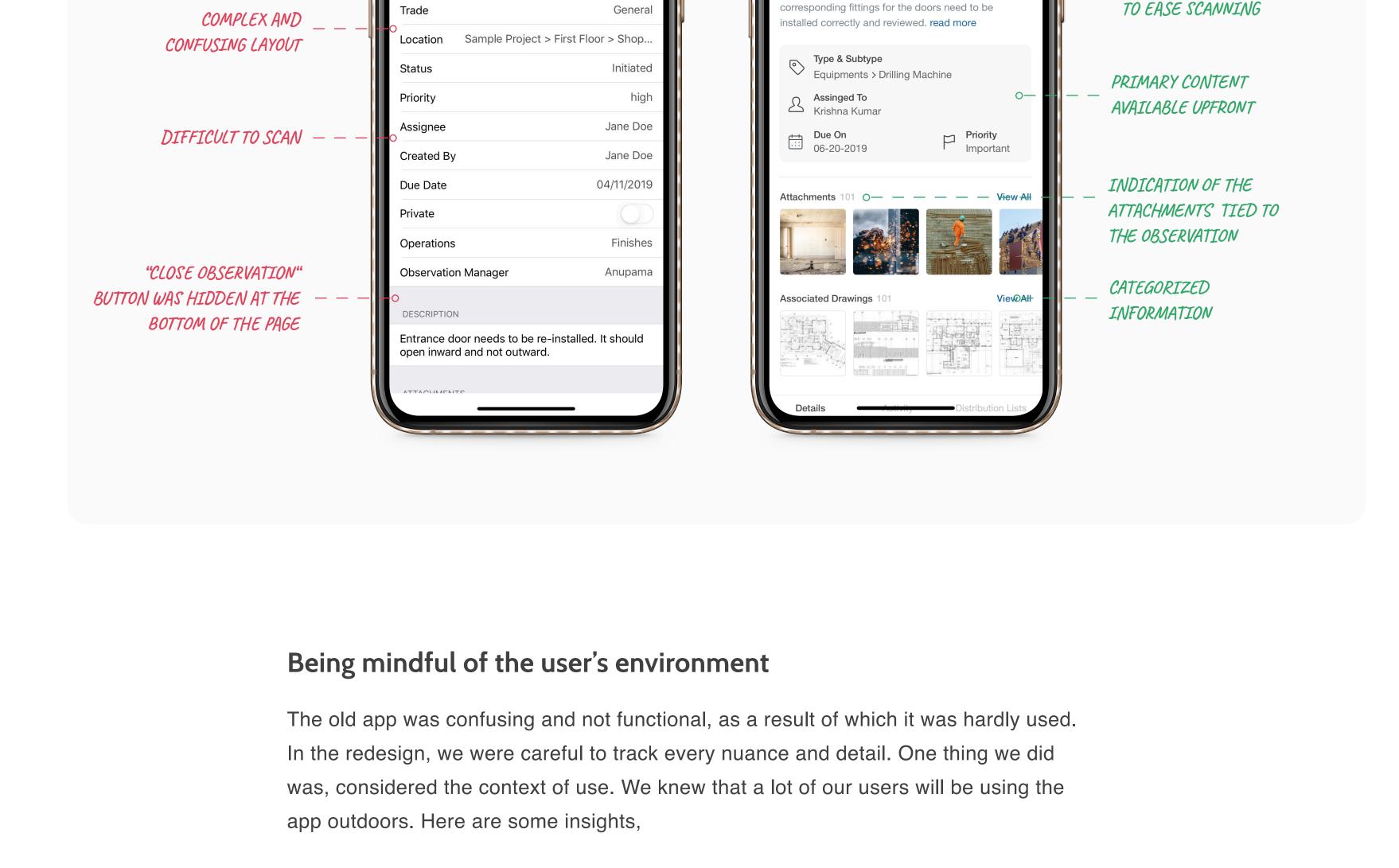
State

Entrance door opens outward instead of inward

Doors > Exterior - Assembly - Placement

TITLE OF THE OBSERVATION

LACKED EMPHASIS



We iterated a lot to decide what information to present, which actions to highlight. We ensured that text was comfortably legible at an arm's distance. 2. A lot of our users were switching from holding the phone with one hand to holding it in two hands without even realising. This meant that the common practice of placing low-priority and dangerous actions at the top left corner of the screen wouldn't work. To tackle this, when we warranted

1. On-site engineers were often at an arm's distance from the device, often amidst noise

and a lot happening in the background.

confirmation to protect the user.

We maintained a healthy contrast ratio of fields so that the content is easier to perceive. We tested our designs with an online color contrast calculator. We restructured information, so that the important information was always front and center. We designed prominent calls-to-action and ample touch targets, so that they are easier to identify and tap.

(such as when a user is closing an observation), we used modal boxes for

3. Accounting for sun glare, low light environments and fat fingers.

Takeaways I learnt that data visualisation is very interdisciplinary. I learnt that each visualisation

What works from a design perspective?

Which way is it most helpful to the user?

Which way tells a story?

design will be."

always started from the data. While working on this redesign, I tried to have a dialog with the data; Poking at it, looking at it from different perspectives. We tried a number of ways to visualise the data, until we stumbled upon one way that made sense and was most useful to the user. Here are some questions we kept asking ourselves, What works visually?

Here's a quote that I stumbled upon, "The more you know your user the better the