Buildots Web

Role
Product Design Lead
Team Lead

Platform
Web

Time
Since Jan 2020

Status
Ongoing

Scope
Full Stack

I've been leading the UX Strategy and Product Design Team at Buildots since January 2020 from a 10 person R&D team, managing 3 product designers while still hands-on.

Running three platforms together with the Core Backend Managers to ensure a unified vision and consistent UX, while maintaining optimal scope to respond to the various daily Buildots user needs.

Leading the Design Team to create a unified design system, and a shared component library, guaranteeing an aligned UX/UI experience. Also, Buildots' production Figma file (product's code design mirror of the platform) is entirely managed by the design team, which I've established and maintained.

I designed from the bottom-up the core user journeys and features, updated and improved existing ones, and led the transition to a new web technology stack and the migration of all existing features. Collaborated with managers and gain overall UX consultation duties.

The "before"

After formed the startup a deep assessment and revamping of all Buildots products and platforms was required.

Dozens of customer interviews were held with every platform's UX owner and the Design Team, to identify pain points and opportunities for improvement. Also, Buildots' Customer Success Manager and Backend Managers were also regularly involved to collect insights and feedback. Finally, I've conducted a UX audit to identify and prioritize all existing UX issues.

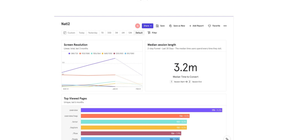
All the work that has "created" the UX of the current Buildots' products was done by the Backend Managers, and the UX was a result of the Backend Managers' thinking process of the Product Managers' needs. Buildots' UX was not designed, but rather "happened" as a result of the Backend Managers' thinking process.



Research

I got involved with learning how Buildots was built and starting to lead the research, and I also formed a dedicated Research Ops role to focus fully on Research Ops and Research Repository.

I conducted countless Analytic Interviews and Usability Sessions throughout the beginning of my time at Buildots, and I've also set up a Research Repository in Dovetail, which I've been using ever since and I've also built the Research Ops tasks routine.





Explorer Screen Revamp

Buildots' is one of the most project-oriented SaaS I've ever worked with, starting a work from the initial setup process to the end of delivery. Throughout the whole process, Buildots' Project Engineers (PE) are in charge of the different subjects of the project.

The project starts by processing drone footage, which is then uploaded to Buildots' platform. Then, the PE's are in charge of the project's setup and management, starting from creating the project, assigning the users to it, and ending with the project's delivery. Each PE is in charge of the project's progress and reporting it to the customer.



Check this example flow, allowing to switch between the three modes (Map View, Work Package and Task), to see how the PE's Explorer screen is built to fit the different aspects of each of these modes.

Buildots' Explorer screen is the PE's main workspace, where they can see the progress of the project and navigate between the different modes.



Check this example flow, allowing to switch between the three modes (Map View, Work Package and Task), to see how the PE's Explorer screen is built to fit the different aspects of each of these modes.

Buildots' Explorer screen is the PE's main workspace, where they can see the progress of the project and navigate between the different modes.

Issues Screen Revamp

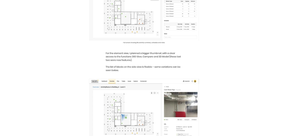
Before, there are three pre-defined, like-constructed issues classes for the entire Buildots platform:

- **Issues**: Errors and other tasks, done in different flows that could include different data and different actions. Issues are created by the AI, Quality Engineers (QE) and Project Engineers (PE).
- **Locations**: Locations are the main entity of the platform, which includes all the data and images.
- **Quality Inspections**: Quality Inspections are created by the Quality Engineers (QE) and include a checklist of tasks to be done in the location.

Issues were the most complex, and cumbersome. Issues' recordings were created by the AI, QE and PE, and each of them had different data and different actions. Also, Issues were the only entity that had a Comments section, and Activity Log.

Locations were the second most complex, as they had a lot of data, but no actions. Quality Inspections were the simplest, as they had only a checklist of tasks to be done in the location.

Each of these three entities' data and interactions' design was strange and inconsistent, and I've decided to unify them into one entity, called **Issue**, and to design **one unified Issues screen for all of the three entities' data and interactions**.

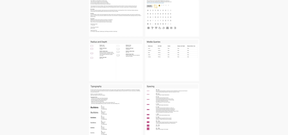




We were choosing different information hierarchies to be given to each issue type, and we've also created different Issue Cards for each Issue type, to fit the unique data and actions. For example, we've added the location's progression to the Location Issue Card, and we've added the Quality Inspection's checklist and completion to a specific Issue's Card.



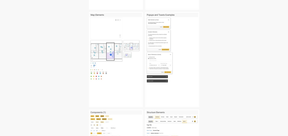
Each Issue type's Card was designed by highlighting the customer pain points and the most important actions for that specific Issue.



Here is an example of how we've designed the Issue Card for Issues, and how we've highlighted the most important actions for the customer, such as changing the Issue's status, assigning, adding a comment and more.



Here is an example of how we've designed the Issue Card for Locations, and how we've highlighted the most important actions for the customer, such as changing the Location's progression, assigning, adding a comment and more.



Here is an example of how we've designed the Issue Card for Quality Inspections, and how we've highlighted the most important actions for the customer, such as changing the Quality Inspection's status, assigning, adding a comment and more.

Activity and Element Side Views

Working closely with Backend Managers, we've decided to work on the Issue's Activities and Elements. All Elements' actions required to create within a wrapping Activity, and all Activities' actions required:

- Either automatically by the system, which is why we've created the notion of the Activity.
- Or by the user, which is why we've created a dedicated, informative Activity Log, which includes all the Activities' data and actions.
- Creating the Activity as a group for the Issue, so the Issue can be updated with multiple changes at once.
- Creating the Activity's Elements' actions.





To reduce errors, the Issue's Assignee's different information – whose working on creating it, and who's going to be reviewing it – was a key element of its category. This gives us the required flexibility to allow more sophisticated workflows, and to reduce errors by making the assignees' permissions and issue's statuses dependent.



Here is an example of how we've designed the Activity Log, and how we've highlighted the most important actions for the customer, such as changing the Activity's status, assigning, adding a comment and more.

Here is an example of how we've designed the Activity Log, and how we've highlighted the most important actions for the customer, such as changing the Activity's status, assigning, adding a comment and more.



Here is an example of how we've designed the Activity Log, and how we've highlighted the most important actions for the customer, such as changing the Activity's status, assigning, adding a comment and more.



Here is an example of how we've designed the Activity Log, and how we've highlighted the most important actions for the customer, such as changing the Activity's status, assigning, adding a comment and more.

Here is an example of how we've designed the Activity Log, and how we've highlighted the most important actions for the customer, such as changing the Activity's status, assigning, adding a comment and more.

Here is an example of how we've designed the Activity Log, and how we've highlighted the most important actions for the customer, such as changing the Activity's status, assigning, adding a comment and more.



Here is an example of how we've designed the Activity Log, and how we've highlighted the most important actions for the customer, such as changing the Activity's status, assigning, adding a comment and more.



Here is an example of how we've designed the Activity Log, and how we've highlighted the most important actions for the customer, such as changing the Activity's status, assigning, adding a comment and more.



Here is an example of how we've designed the Activity Log, and how we've highlighted the most important actions for the customer, such as changing the Activity's status, assigning, adding a comment and more.

Here is an example of how we've designed the Activity Log, and how we've highlighted the most important actions for the customer, such as changing the Activity's status, assigning, adding a comment and more.

Here is an example of how we've designed the Activity Log, and how we've highlighted the most important actions for the customer, such as changing the Activity's status, assigning, adding a comment and more.



Here is an example of how we've designed the Activity Log, and how we've highlighted the most important actions for the customer, such as changing the Activity's status, assigning, adding a comment and more.

Here is an example of how we've designed the Activity Log, and how we've highlighted the most important actions for the customer, such as changing the Activity's status, assigning, adding a comment and more.

Here is an example of how we've designed the Activity Log, and how we've highlighted the most important actions for the customer, such as changing the Activity's status, assigning, adding a comment and more.

Here is an example of how we've designed the Activity Log, and how we've highlighted the most important actions for the customer, such as changing the Activity's status, assigning, adding a comment and more.

Here is an example of how we've designed the Activity Log, and how we've highlighted the most important actions for the customer, such as changing the Activity's status, assigning, adding a comment and more.

Here is an example of how we've designed the Activity Log, and how we've highlighted the most important actions for the customer, such as changing the Activity's status, assigning, adding a comment and more.

Here is an example of how we've designed the Activity Log, and how we've highlighted the most important actions for the customer, such as changing the Activity's status, assigning, adding a comment and more.

Here is an example of how we've designed the Activity Log, and how we've highlighted the most important actions for the customer, such as changing the Activity's status, assigning, adding a comment and more.

Design System Creation – Sketch / Figma

I created the Buildots Design System from scratch, from an Atomic and a Layered way of working with Sketch and Figma.

It was important for me to give it a solid philosophical & UX's grasp, and I've created a dedicated Design System Documentation Page, which I've also later used while training new UX and Visual Designers on the product.

The Design System's principles & rules guide, and standards and patterns, is following the Atomic Design Principles and the Progressive Disclosure Principle. Fabric, Salesforce Lightning, IBM Carbon and Material Design were my inspiration.

Here's the entire set of Design System's pages: