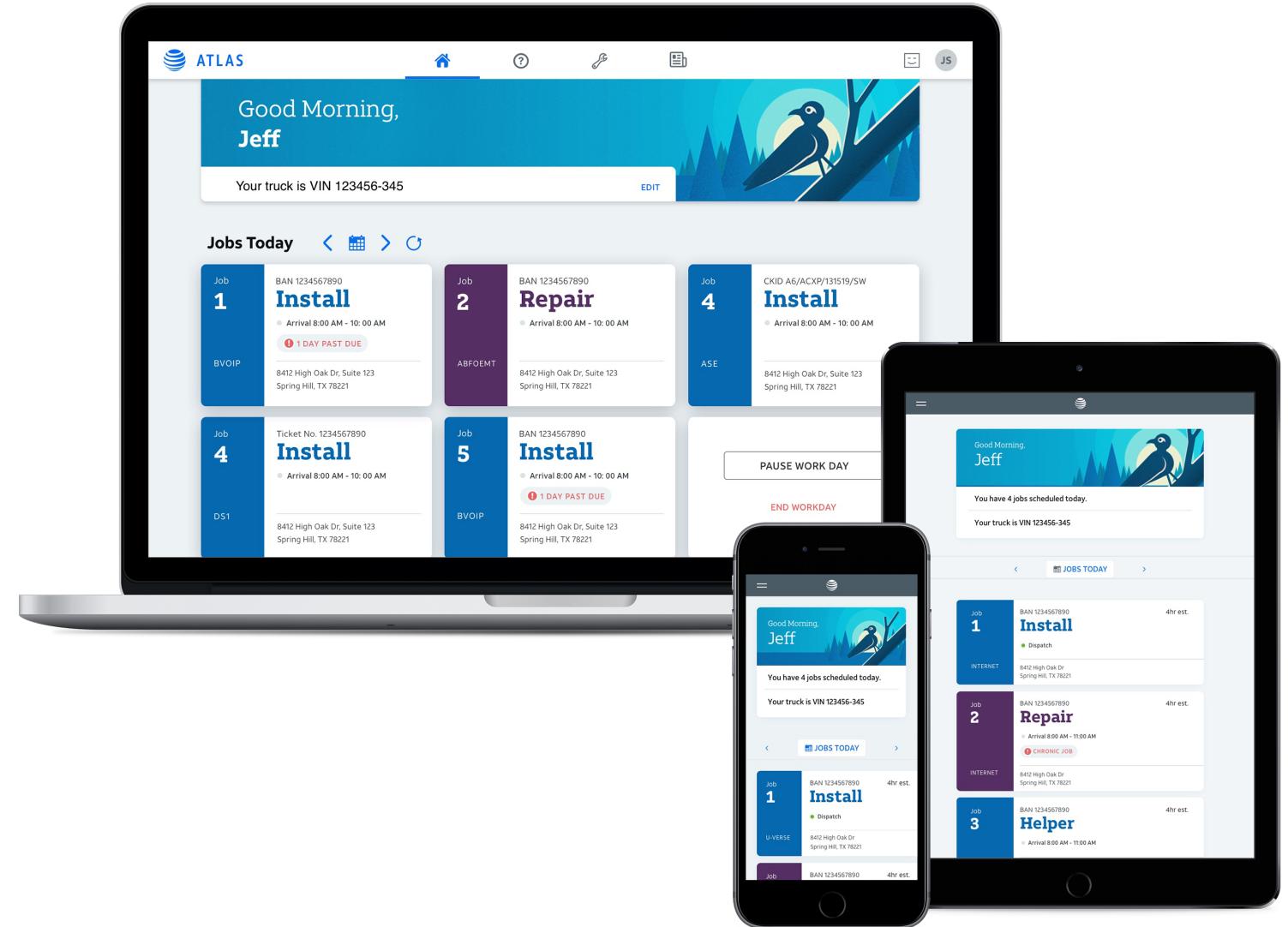


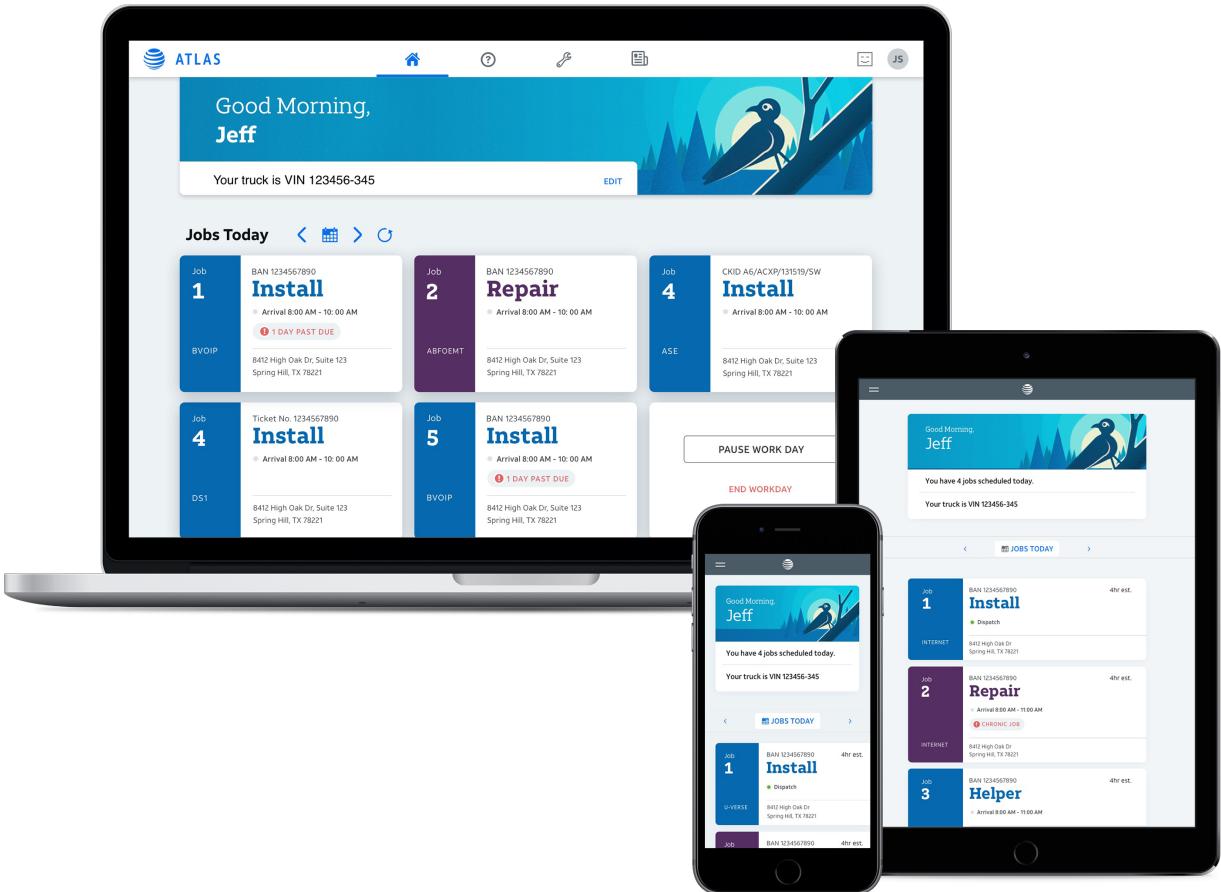
Design Mobile & Desktop Application For AT&T Technicians

AT&T- ATLAS



ATLAS is an internal app for AT&T technicians. Currently, techs using a lot of outdated legacy systems, ATLAS is set to replace those systems & let

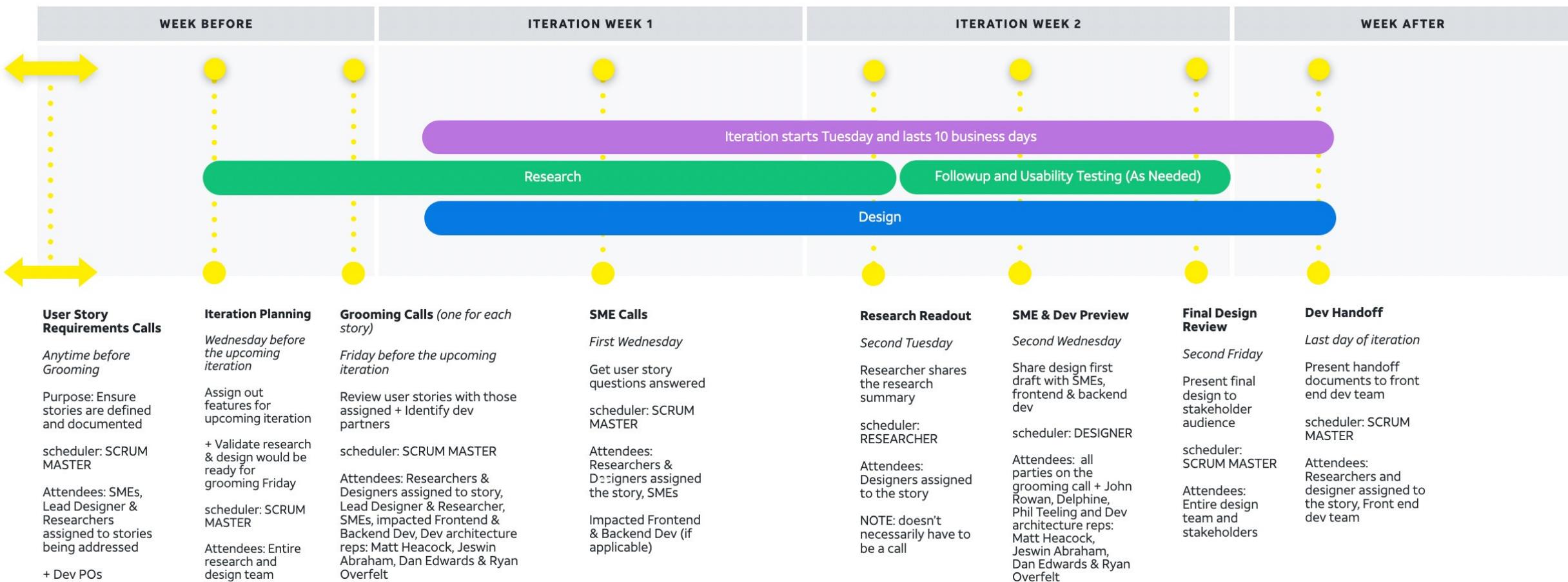
technicians use 1 app to perform multiple tasks, so it can be a toolbox of some sort for all digital tasks.



AGILE PROCESS FOR FEATURE DESIGN IN ATLAS

ATLAS team is adept at the agile process, where each iteration takes 2 weeks. Depending on the size, feature can take up 1-4 iterations

Iteration Research Design

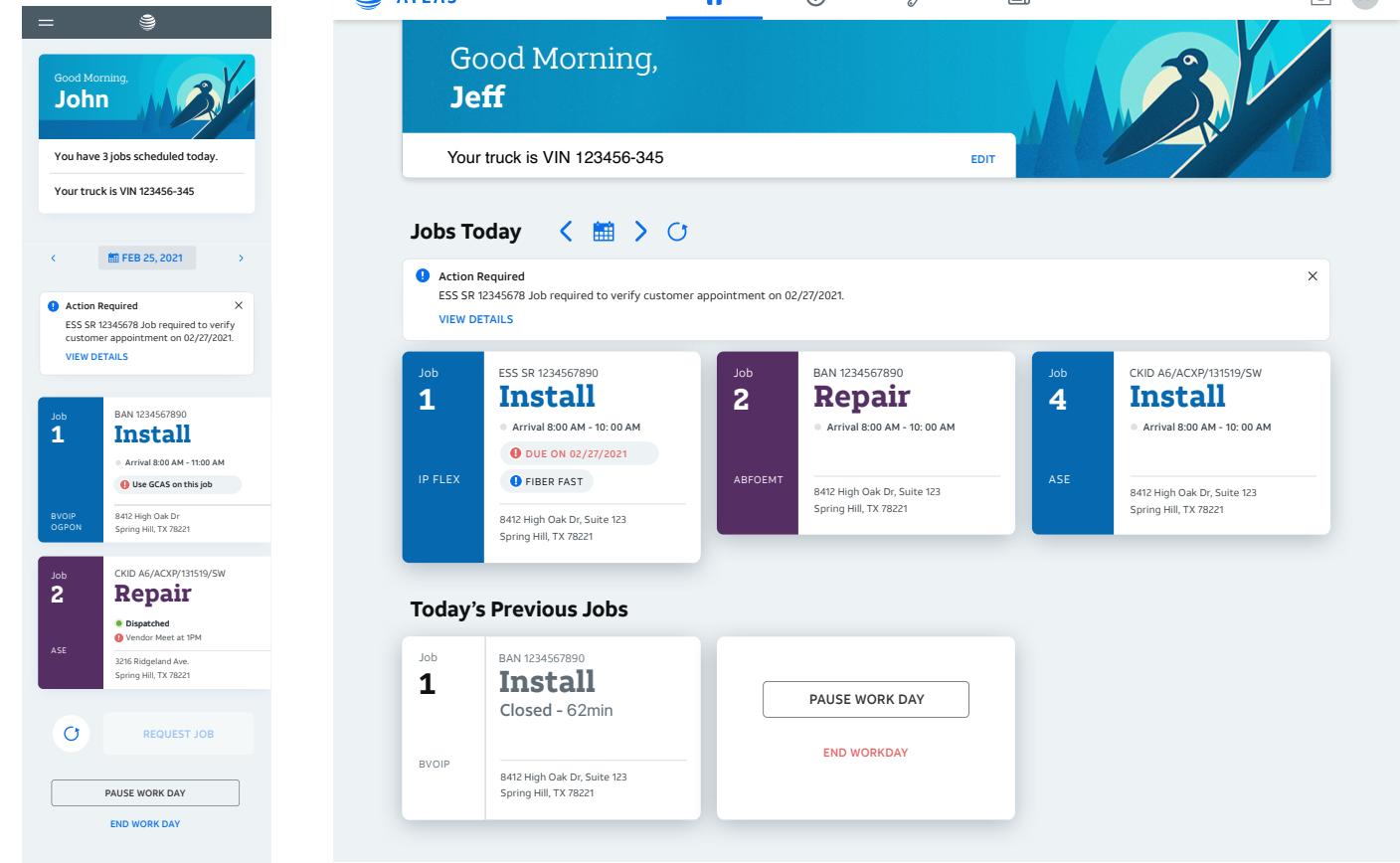


Add and design Experience Advance call notification feature within the ATLAS app.

Company: AT&T

User: AT&T Technicians

Role: Sr. UX Designer



Project Summary

I designed the experience of ACN feature for ESS jobs, which helped to optimize technicians' time and efforts.

Responsibilities

- Experience Design
- Prototype & Usability Testing

Timeline & Team

4 weeks start to finish (2 iterations).
With a collaboration of at least 7 people from different teams (Research, Design, Business, Architecture, Front-end, Back-end).

Results

The feature is currently been developed, but we've got some really good feedback from primary users during the usability testing. All technicians that participated in testing were very excited for this feature to come to life.

I designed the experience of decrementing parts for ESS jobs, which helped to optimize technicians' time and efforts.

Working within the **agile 2-week sprint system**, I have collaborated with business stakeholders, researcher and development teams, have **designed 2 flows** for Close Job &Standalone process, **done usability testing & optimized overall experience** for ESS technicians.



FEATURE STRATEGY

We realized that overall the existing tool **fails on at least 5 usability heuristics**, which also gave us ideas for potential improvement

The image shows two screenshots of the GCAS Work Summary tool. The top screenshot is titled 'Decrement Specials Maintenance' and includes fields for Job ID (113819511), ORD/TKT# (4857435), ESS SR# (4857435), and various dates and times. The bottom screenshot is titled 'ABFS Decrement Parts' and includes fields for ESS SR# (4812228), ORD/TKT# (4812228), Part# (highlighted in yellow), and CITY (highlighted in yellow). Both screenshots show a 'Submit' button at the bottom.

EXISTING TOOL

User Control & Freedom

The submission form for decrementing parts appeared only after closing the job & tech can only submit 1 part at a time, without being able to remove or edit it.

Error Prevention

There was no confirmation screen for submission or validation messaging.

Recognition Rather Than Recall

No available record of previously submitted parts, tech's either need to keep everything in mind or contact their manager to find out.

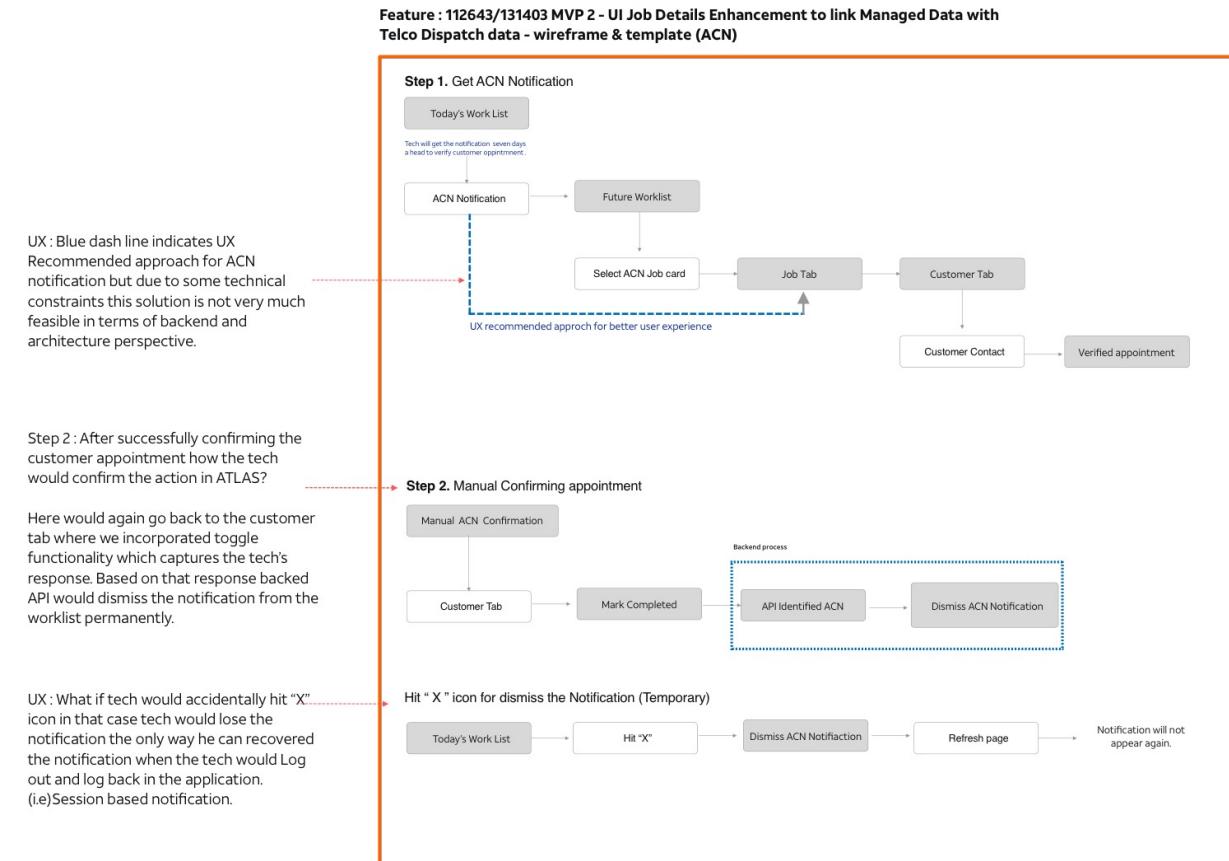
Help Users With Errors

There was no way to fix errors inside of the tool, technician had to contact the dispatcher in order to get help and solve it.

Help and Documentation

Prior to submitting parts techs should know their inventory on the truck, there's no way to check if inventory in the system accurately mirrors their actual on-hand inventory or not. And there's no upfront information for the dispatcher, who could help with sorting out some of the errors.

Design Process Flow



Initial Design Solution

Action req...ed 1 Copy 5

Good Morning, John
You have 3 jobs scheduled today.
Your truck is VIN 123456-345

NOTIFICATIONS
Verify appointment

- Action Required Job ID 123456789 required to verify customer appointment on 06/27/2021. [VIEW DETAILS](#)
- Action Required Job ID 123456789 required to verify customer appointment on 06/27/2021. [VIEW DETAILS](#)
- Action Required Job ID 123456789 required to verify customer appointment on 06/26/2021. [VIEW DETAILS](#)
- Action Required Job ID 123456789 required to verify customer appointment on 06/25/2021. [VIEW DETAILS](#)
- Action Required Job ID 123456789 required to verify customer appointment on 06/24/2021. [VIEW DETAILS](#)

Equipment

ROUTER	BGW210-700	DISCOVER
ROUTER	G-010G-A	DELIVERED

Chat Support
Get support on manage services job. [CHAT LINK](#)

2Job And...ading Copy 2

Arrive at 10:00 AM
Install • Assigned

JOB SUMMARY
ESS SR Install

Customer Information

Customer Test Southeast	COPY
Customer Number 20149482	COPY
CPR 16383236	COPY
Access Window 10/8/20 6:00am - 5:00pm CT	
Customer Notes Entered By: MH202T...	
Contract Coverage SRT&M	

Equipment

ROUTER	BGW210-700	DISCOVER
ROUTER	G-010G-A	DELIVERED

Customer Information

Customer Test Southeast	COPY
Customer Number 20149482	COPY
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Access Window 10/8/20 6:00am - 5:00pm CT	
Customer Notes Entered By: MH202T...	
Contract Coverage SRT&M	

Customer Information

Customer Test Southeast	COPY
Customer Number 20149482	COPY
CPR 16383236	COPY
Access Window 10/8/20 6:00am - 5:00pm CT	
Customer Notes Entered By: MH202T...	
Contract Coverage SRT&M	

ESS Custo...chat Copy 3

Commitment time 10:00am
Install • Dispatched

Customer Information

Customer Test Southeast	COPY
Customer Number 20149482	COPY
CPR 16383236	COPY
Access Window 10/8/20 6:00am - 5:00pm CT	
Customer Notes Entered By: MH202T...	
Contract Coverage SRT&M	

Location

754 Peachtree St NE UNIT D411 [MAP](#)

Chat Support
Get customer information. [CHAT LINK](#)

Bottom Navigation

[PAUSE WORK DAY](#) [END WORK DAY](#)

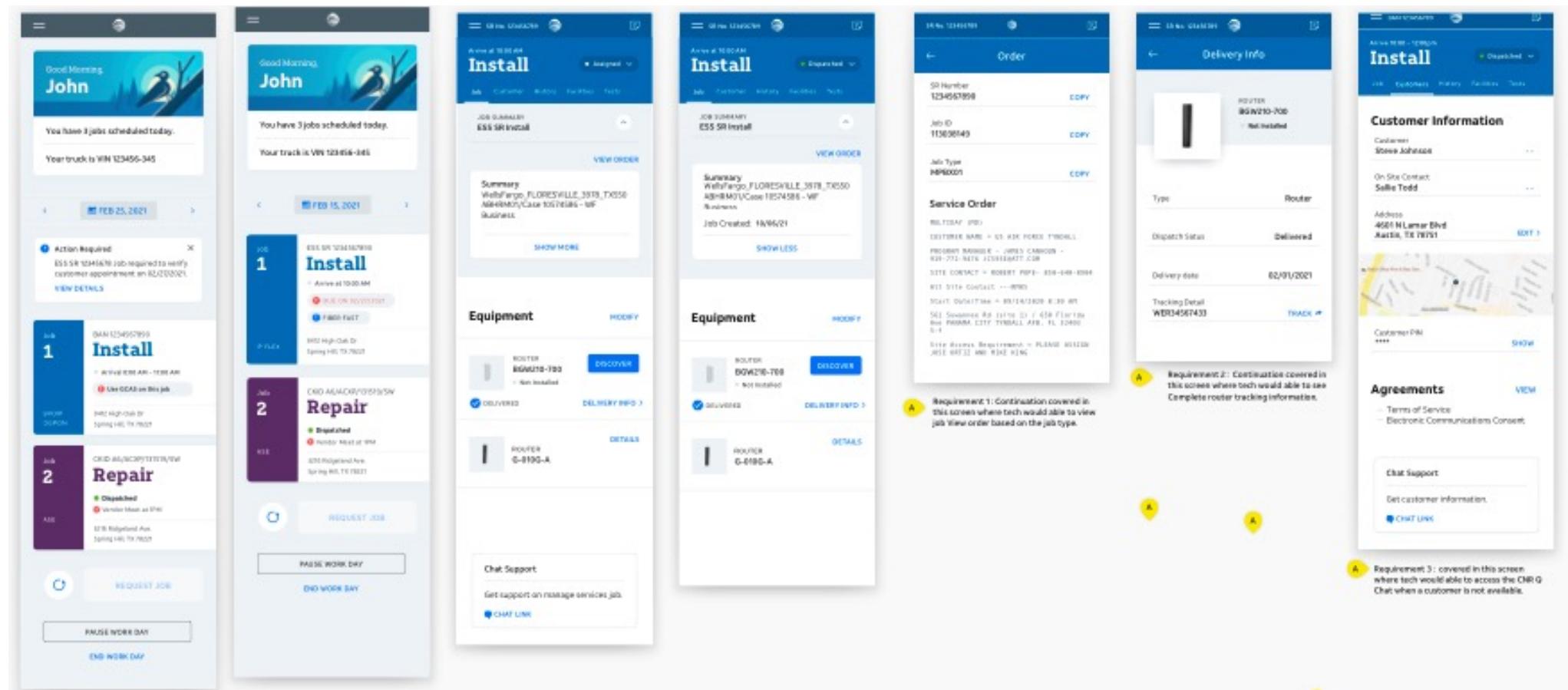
This toggle functionality supports ATLAS to track manually ACN action and also identify ACN jobs and dismiss the same ACN notification permanently from the worklist.

Negative use case: What if Tech would accidentally switch on this toggle for the wrong ACN job?

Same toggle functionality if tech would switch no and the same time notification would reappear again in the work list

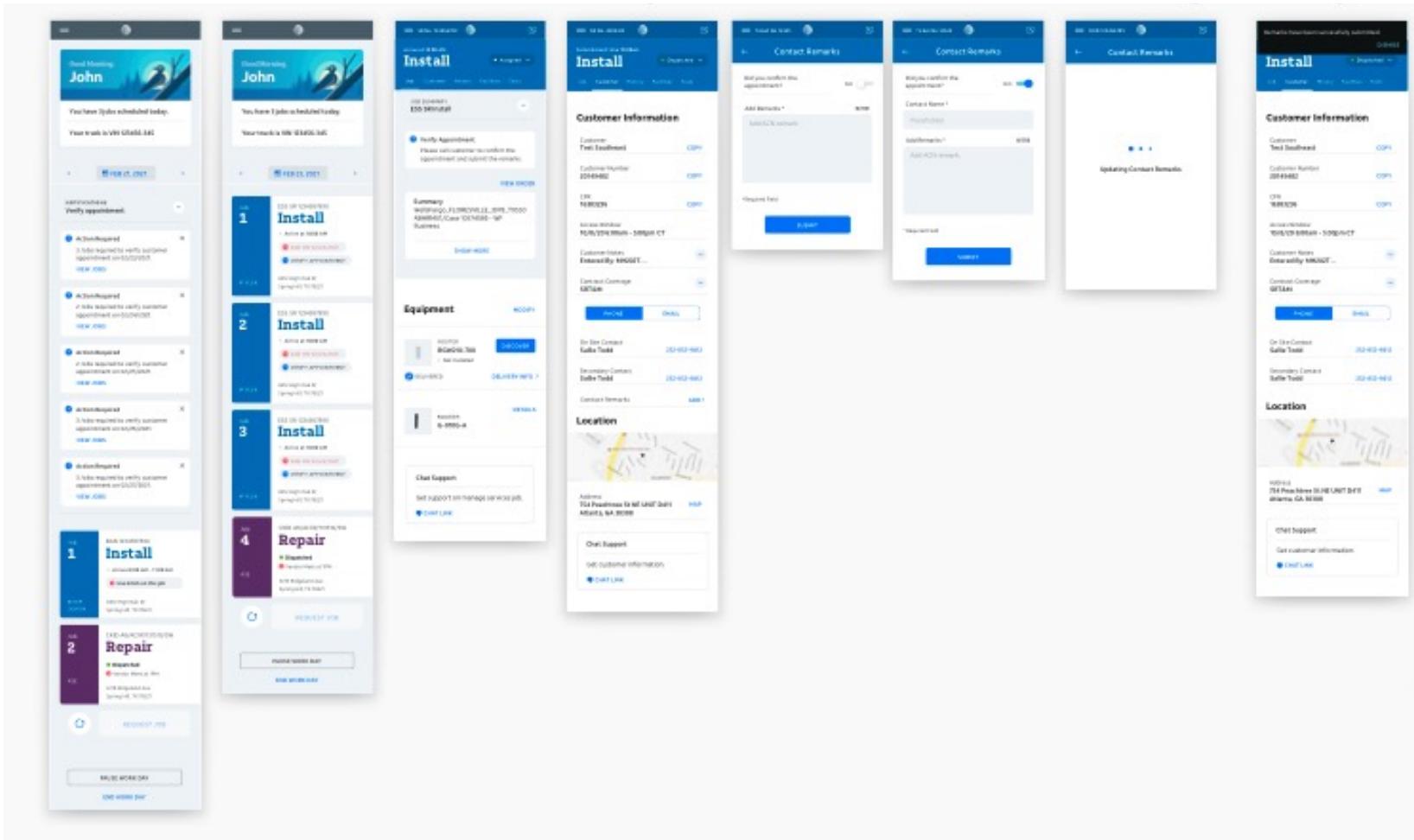
First, I mapped out the **experience of confirm customer availability prior to visit customer location.**

This approach is **different from how techs using it now**, but it would be **more consistent with other features**, that needed to be done prior to closing (like submitting billable items, youRefer credits, and others).



Next, I created **another version** to see **how would (ACN feature) works**, if it was submitted after closing the job.

We had doubts if our initial recommendation would work for techs' needs & we could predict **potential API limitations**, so wanted to **test with techs** first, to understand if we should push on our first solution.



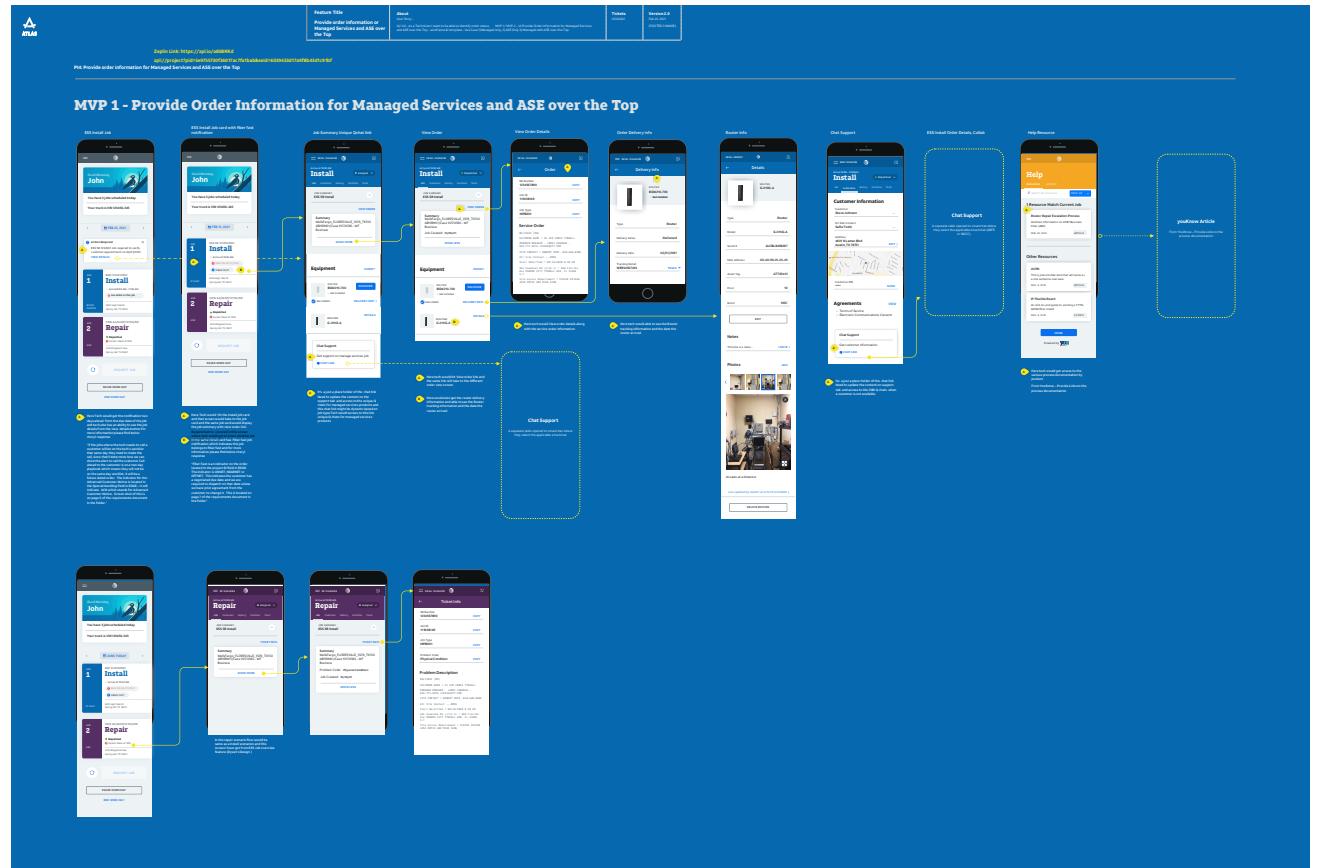
Conducting first round of **usability** tests helped us **learn**, that:

- Techs don't have preference over submission **before** or **after** closing the job. So we have decided to go with consistency and kept the first flow.
- Techs **love** the idea of **submitting multiple parts** at a time & **having** some sort of **record of already submitted parts**.
- Techs **wish** they could **have** a similar **record for standalone tool** as well, however, it's not their priority, as they **would not use** standalone tool **as often**.

There were couple additional flows in between, where I was collaborating with developers, however, for testing purposes we have landed only on 2 flows from previous slides.

After some additional **iteration on visual design**, and using feedback from the testing, I have come up with the **final flow for the Close Job scenario** & a **prototype** that we presented to 3 techs.

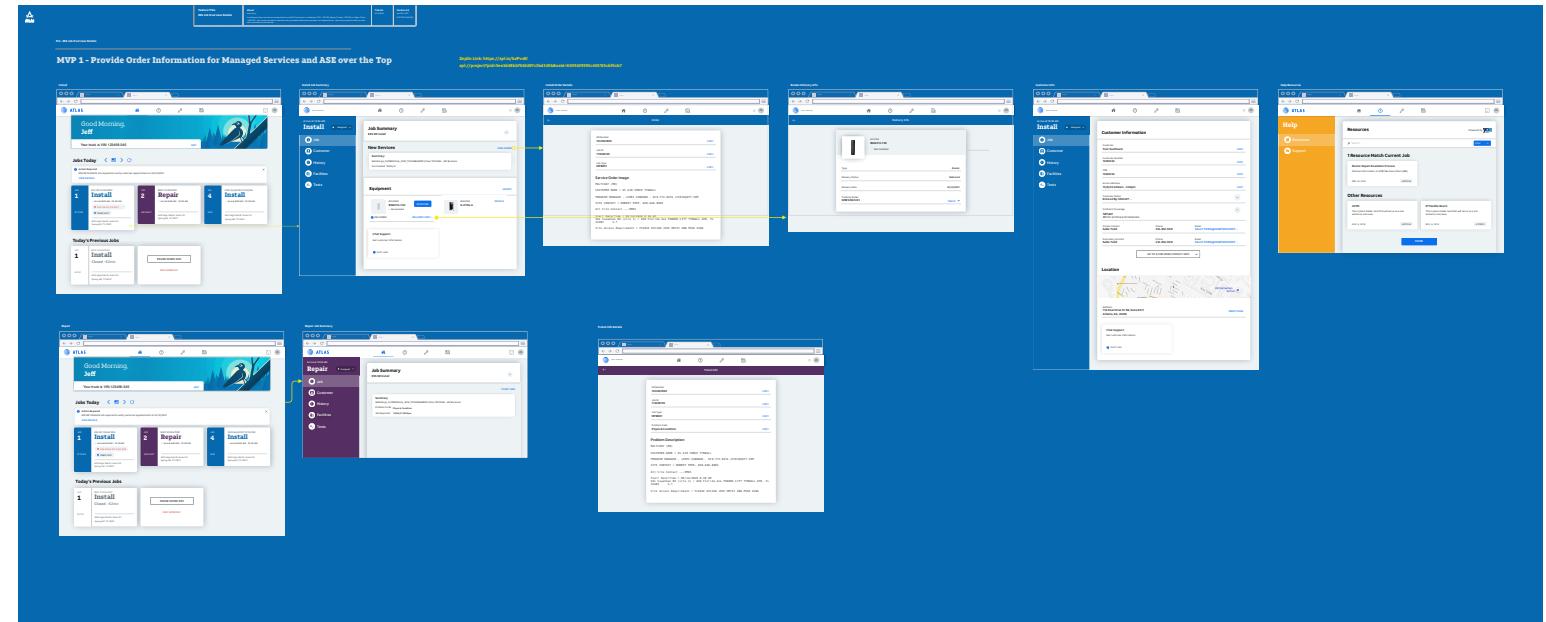
View Prototype



PROTOTYPE, TEST & ITERATE

I have also created a **flow** for **standalone tool**, so we could finalize our Usability Tests & **prepare for the final handoff.**

[View Prototype](#)



While handing off the feature I have provided my recommendations for future improvement. Such as **providing a way** for techs to **review their past submissions** and potentially be able to **add more parts** to them, that will require API upgrade.

Closing a job is an **integral part** of a technician's work, **being able to do it efficiently & without any pain points** will **reduce amount of friction** they have throughout the day.

Creating a more optimized way to submitting decremented parts, while closing the job, will help tech to save some time in their day & will let them **focus on other, & more important tasks**.

Key Outcomes & Results

- Because of close collaboration with back-end team, we were able to create a better and more efficient solution for techs.
- All interviewed technicians (8 from usability tests) were happy to see the improvements we made from the initial solution & were looking forward to the implementation of this feature into ATLAS.

What I Learned

- Collaboration and communication between different teams is the key to a successful result.
- Heuristics evaluation of the problem or already existing solution is highly valuable in the early stages of the work, as it allows to better focus on certain aspects, that could've been overlooked otherwise.

Audit, Design & Maintenance Work for ATLAS Design System

Company: AT&T

User: Designers & UI Developers

Project Summary

I worked with Sr. Designer and on my own to audit, create, maintain components & outline patterns for the existing design library, & collaborated with the Front-End team to create consistency & order within the Design System.

In addition, I also was just a team “librarian” & was giving suggestions on some patterns that would be more consistent or appropriate for specific needs.

Responsibilities

- Visual Design
- Experience Design
- Content Governance

Timeline & Team

There was no specific timeline, as we didn't have the budget and time reserved for this, it was an ongoing project in my free time.

Team: UX Designer, Sr. Visual Designer, UX Team Lead, 2 UI Developers



When I just joined the team, one of my first tasks was to **make an audit for the design system, to find and to notate inconsistencies between Design and Development libraries**. Later that became an **ongoing effort** on our path to creating a highly functional and consistent system.

Date	Issue (describe the issue that you came across)	Design Preview Screenshot (provide a screenshot of how the screen/component looks in design)	Dev Preview Screenshot (provide a screenshot of how the screen/component looks in development)	Notes (provide additional notes, if you have any)
1/26/2021	Create Ticket (desktop) Design uses modal with Line items and Headline. Dev replicates mobile view.			Design approach is also inconsistent between Desktop and Mobile screens
1/26/2021	Tests Tab (inconsistencies in color and text)			For Design this was the latest design chosen for UTG Testing. Original design was similar but without chevron icons (Test tab previously designed by J)

Dev CL Details	Dev CL Screenshot	Dev CL Name & (token name)	Design component library			Additional notes
			Design CL Name & (Proposed token)	Design CL Screenshot	Design CL Details	
			Icons	Alert		
			Use this icon in an alert when the alert is only informational	Info <atlas-alert-info>	Low	Blue Exclamation: Used for informational alerts
			Use this icon in an alert to provide a warning to the technician	Warning <atlas-alert-warning>	Med	Yellow Exclamation: Used for important warnings
			Use this icon in an alert to inform the technician of a critical problem	Danger <atlas-alert-danger>	High	Red Exclamation: Used for critical problems
			Use a brighter red background	Brighter Red Danger (same token as above)	~	~
			Use this icon in an alert when providing a success state of an operation	Success <atlas-alert-success>	Check	Blue Check: Used for confirmation that something
			Use a green background	Green Success (same token as above)	~	~
			Use this icon in an alert to convey that an operation in the context of the alert is currently being	Loading <atlas-alert-loading>	Working	(couldn't find details)
				Mixins/Icons/One-dot Loader/Working	Working	~ (couldn't find details)
				Mixins/Icons/One-dot Loader/Working	Working	

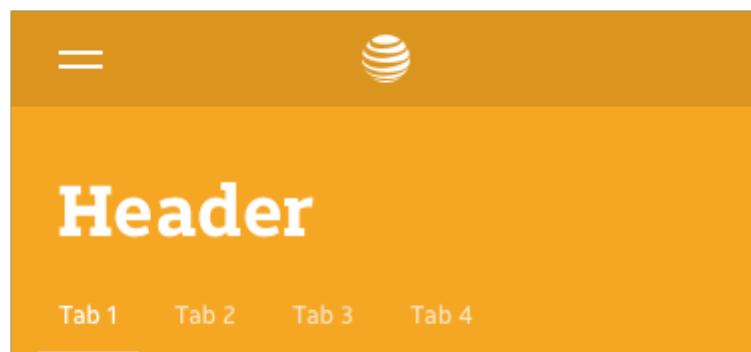
Dev vs Design:
- Dev size - 25.61x24.8 | Design size: 24x24
- Icon itself looks slightly different in Dev vs Design (Design -)

DEV issue:
- Danger & Brighter Red Danger have very similar colors, what is the need to have them separate? (what each of them are covering and can we combine them OR change colors?)
- Shares same token name as Danger

DEV & DESIGN issue:
- Success Green does not exist in Design CL, what is the purpose of it?
Should we remove it?
- Shares same token name with Blue Check

DEV & DESIGN issue:
- At a largest state loading icon is smaller than any other Alert Icon, which probably is inconsistent

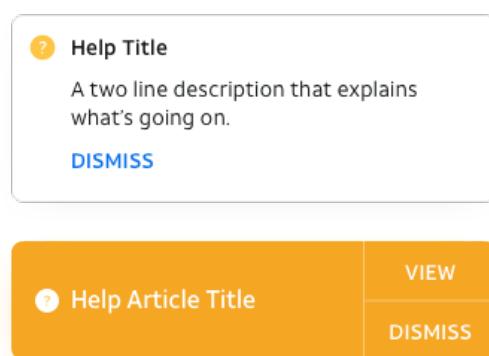
While doing the audit, I also came across some **ADA compliance issues**, specifically within the color for the overall Help section.



HELP HEADER

The contrast for help color fails on all WCAG parameters & is especially hard to read for inactive tabs, which already have 70% opacity.

I have brought this observation to my Team Lead and to our bigger group of designers and developers. However, it was decided that, because **we didn't have time allocated** for fixing this issue, we potentially **should come back to it at a later time**.



HELP NOTIFICATIONS

Contrast Checker

[Home](#) > [Resources](#) > Contrast Checker



Contrast Ratio: **2.02:1**

[permalink](#)

Normal Text

WCAG AA: **Fail**
WCAG AAA: **Fail**

The five boxing wizards jump quickly.

Large Text

WCAG AA: **Fail**
WCAG AAA: **Fail**

The five boxing wizards jump quickly.

Graphical Objects and User Interface Components

WCAG AA: **Fail**



Text Input

DS AUDIT & FINDINGS

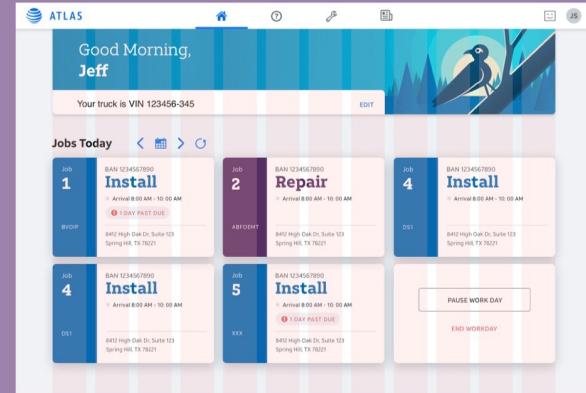
Another finding that we came across - this system **wasn't using any existing DS as a guide** but was **borrowing** different **components from multiple systems**, without any particular reasoning behind it.

That created multiple **inconsistencies** in patterns and **confusion** for designers and front-end developers.

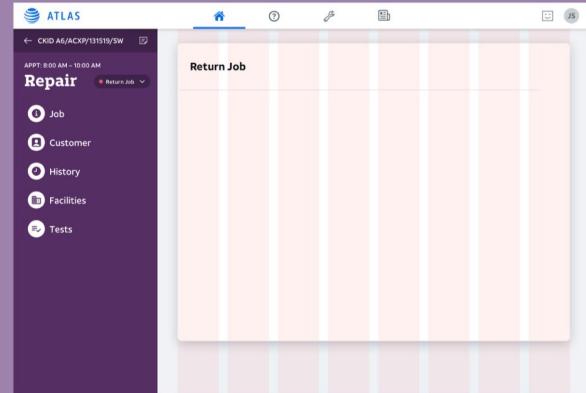
One of the examples of these inconsistencies was having **2 different grid layouts** for desktop pages. 1 was used for main job pages, with side navigation, & another for child pages, without side nav.

The **number of columns & different widths** created a lot of confusion among designers, and basing on my observations, I doubt the front-end development team even followed those grids, which later created a lot of **misalignment** between our teams.

DESIGN SYSTEM'S GRID LAYOUTS

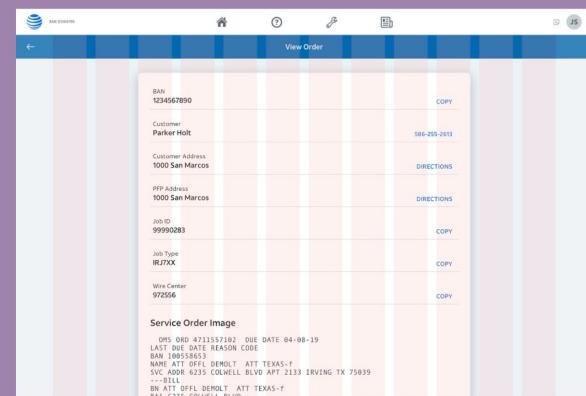


CENTER ALIGNED GRID FOR CHILD PAGES

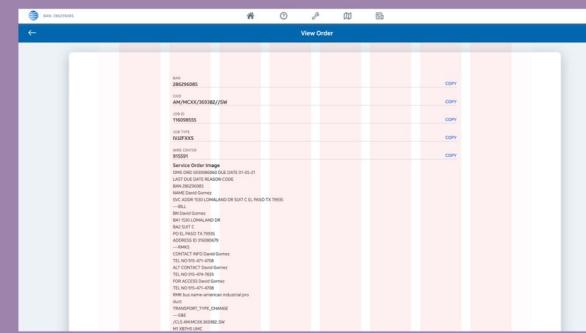


RIGHT ALIGNED GRID FOR MAIN PAGES

GRIDS IN PRODUCTION



CHILD PAGE BASING ON DESIGN LIBRARY



SAME CHILD PAGE EXISTING IN PRODUCTION

NEW GRID PROPOSAL

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra large ≥1200px
.container	100%	540px	720px	960px	1140px
.container-sm	100%	540px	720px	960px	1140px
.container-md	100%	100%	720px	960px	1140px
.container-lg	100%	100%	100%	960px	1140px
.container-xl	100%	100%	100%	100%	1140px
.container-fluid	100%	100%	100%	100%	100%

Basing on the learnings from DS Audit, we have decided to propose a new grid layout. ATLAS uses bootstrap at it's core, so I proposed responsive layout basing on the standard bootstrap grid.

One of my efforts while working on DS for ATLAS, was collaborating with Front- End Developers on creating new components & cleaning up issues in the existing ones.

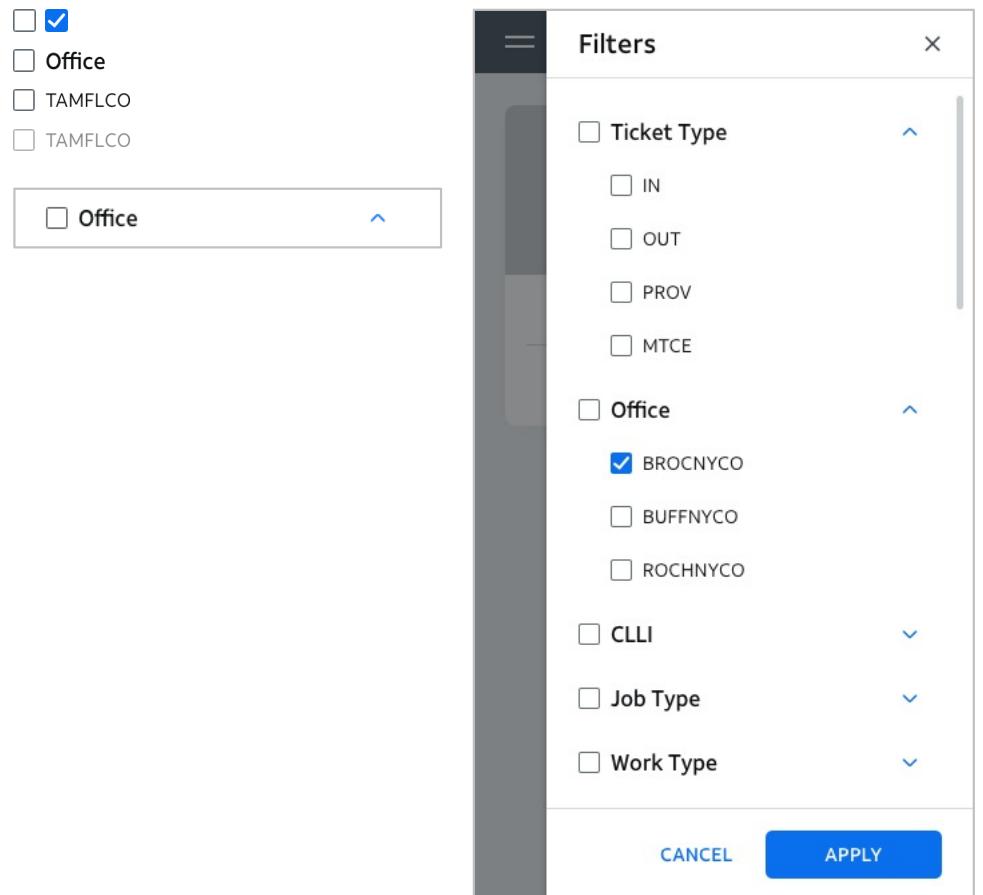
- Tooltip



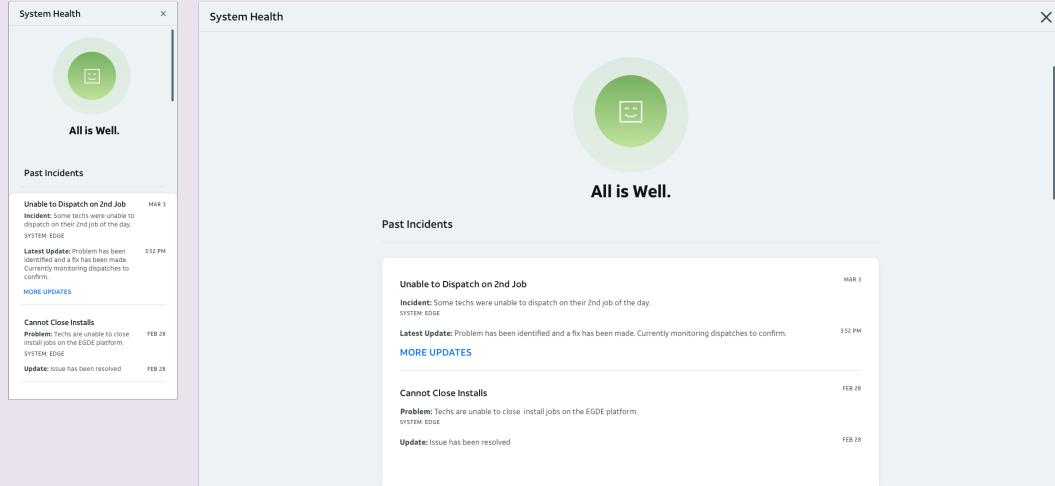
- Bottom action-sheet



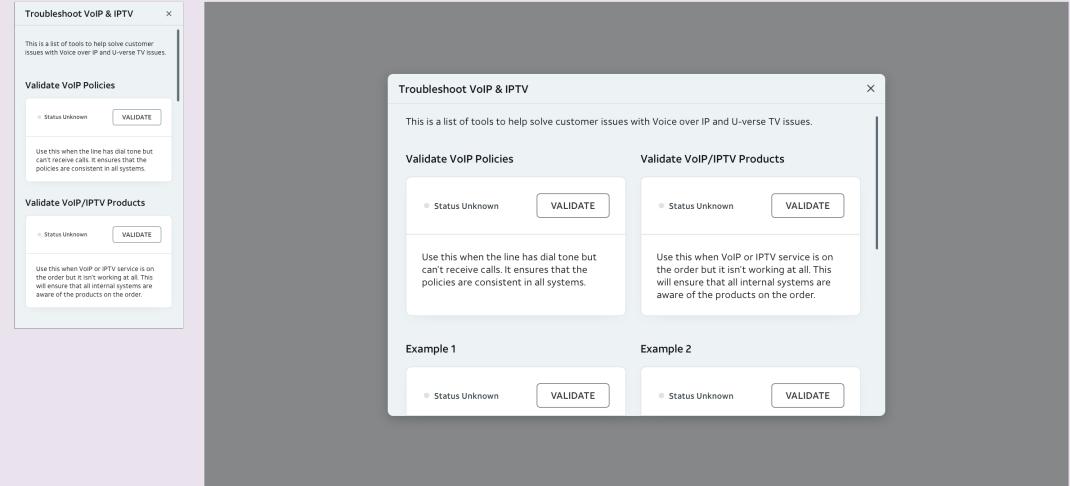
- Side-sheet



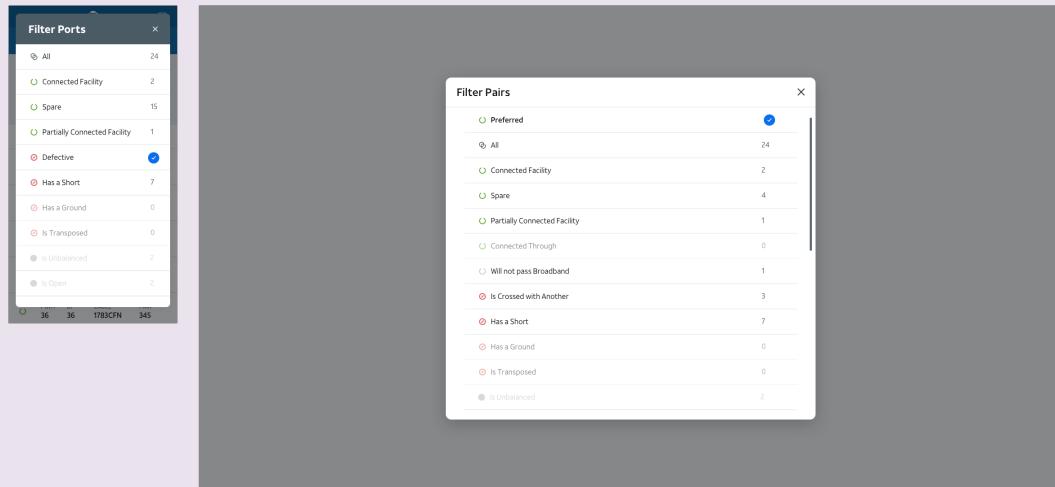
NEW COMPONENTS FOR DS - MODALS



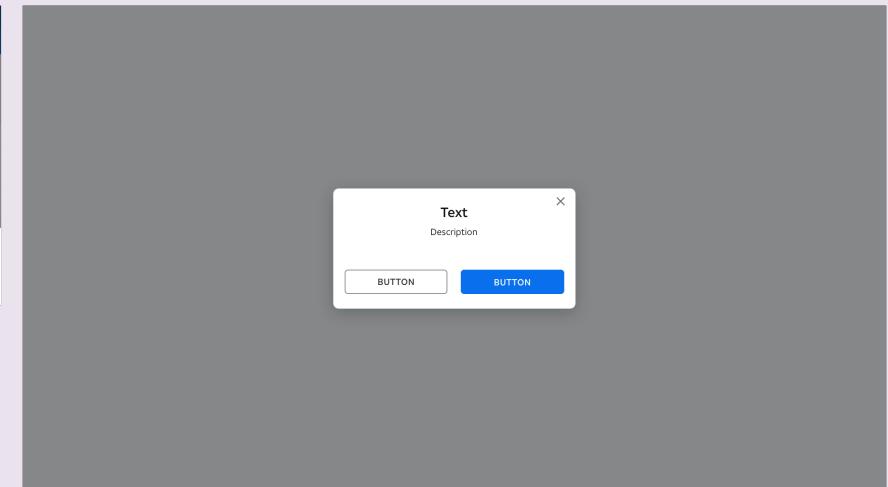
● Full-screen



● 8-column



● 6-column



● 4-column

Thank You!

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