

Yunhao Shen Portfolio Presentation

Contact Information

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Yunhao Shen

2020.



Hi, I'm Yunhao Shen

A “full stack” designer’s story

User Research, Interaction & Visual
Design and Web Development

I'm a full-stack designer, storyteller,
researcher, as well as a gamer working to
expand the possibilities of design thinking
and product experiences.

And I'm also a great photographer, a
constant traveler for the world adventure,
and an awesome pilot. There's a saying
from one of my designer friend and it's too
true not to share: "if your life is plain, so is
your design."

Graduated from UW
2014.06

Came to University of Washington
2012.09

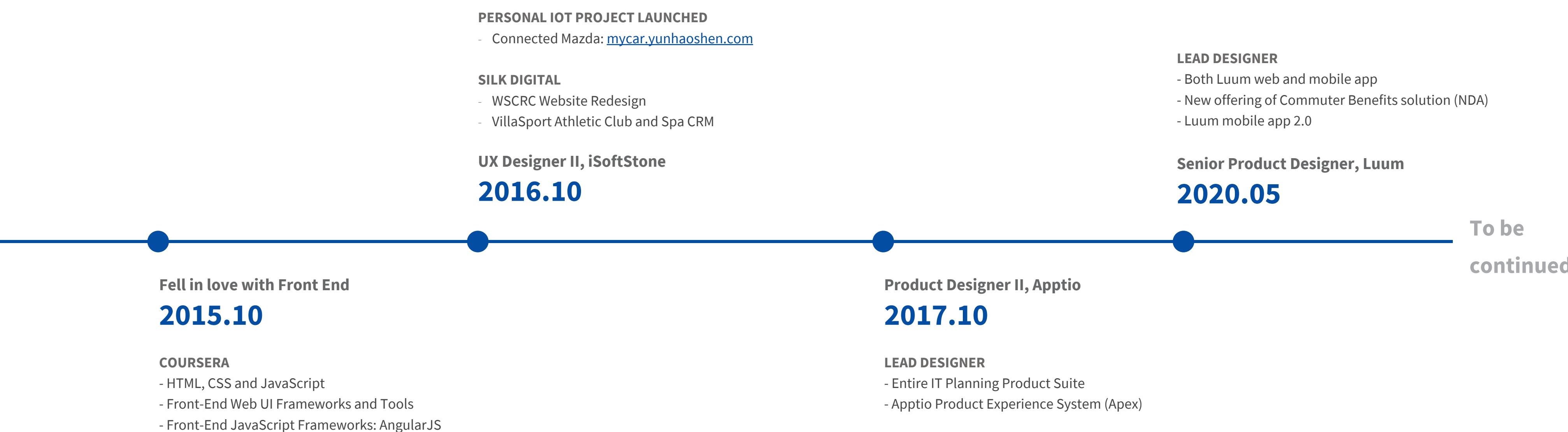
INFORMATION SCHOOL
Master of Science in Information
Management

Experience Designer, Vertafore
2014.09

EXPERIENCE DESIGN TEAM
- Reporting & Analytics Product Suite

A “full stack” designer’s story

User Research, Interaction & Visual Design and Web Development

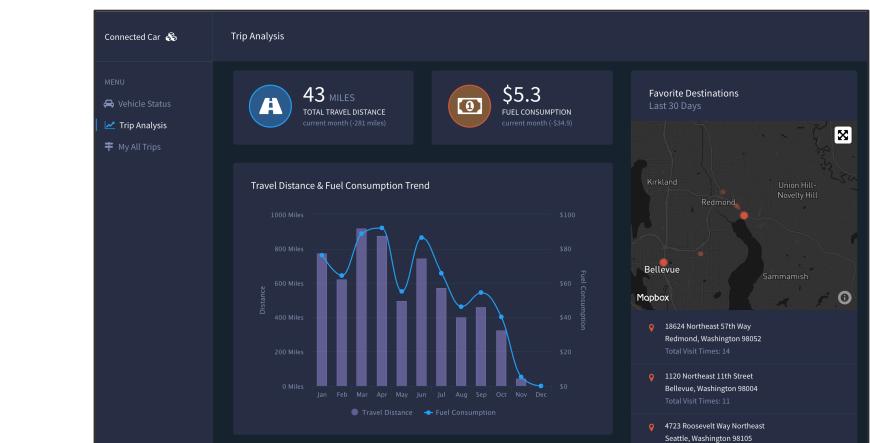




Highlighted Projects

This screenshot shows the Apptio IT Financial Management Foundation product. It displays financial metrics like Actuals FY17 - YTD OpEx (\$300.6K) and Actuals FY17 - YTD CapEx (\$276.4K). Below these, there's a section for 'Processes' with a 'Create Process' button. A sidebar on the left lists various financial reports and dashboards.

This screenshot shows the Apptio Product Experience System (APEX) design system. It features a dark-themed dashboard with a central heading 'APEX' and a sub-section 'To deliver more consistent, polished, and delightful experiences to our customers in a way that is faster, cheaper, more efficient, and uses better engineering practices'. On the left, there's a sidebar with a 'Filter' section containing various design components and patterns.



IT Financial Mgmt Foundation 2.0

Company : Apptio
Role : Product Design Lead

ITFMF 2.0 was a major update to Apptio's IT Financial Management Foundation product targeted for release in H1 2019.

This update improved the user experience, reduced data loading complexity and delivered a fully upgradeable system.

Apptio Product Experience System

Company : Apptio
Role : Design System Lead

Apex was a comprehensive design system that enabled Apptio to deliver more consistent and polished experiences to customers in a way that is cheaper more efficient.

The new Apex system brought UX guidelines, design patterns, HTML/CSS/React framework, accessibility, and UI text standard all together with the best design and engineering practices.

Connected Mazda

Personal Project: mycar.yunhaoshen.com
Role : Design & Development

I did an interesting side project to turn my Mazda3 into a Smart Car, and built a fully responsive web app to track where I went and all my driving statistics.

My driving data dates back to March 5th, 2017, and has a total of 2,641 trips and 1.53 million geo coordinates till today, and is continuing growing.

Username: yunhaoshen
 Password: amazon

IT Financial Management Foundation 2.0

Company

Apptio

Role

Product Design Lead

Project Details

ITMF 2.0 was a major update to Apptio's IT Financial Management Foundation product targeted for release in H1 2019.

Business Goals

Apptio's **key initiative to expand lower enterprise market.**

40+ new logo acquisitions in this segment per qtr (currently ~8) by end of Q3 2019



Apptio Key Initiative

Alex Anderson ▾ ⚙ ?

Welcome to Apptio IT Financial Management Foundation

Actuals FY17 - YTD OpEx
\$300.96K ⬇️ 2.3% / \$0.4K under
 Last Plan \$310K

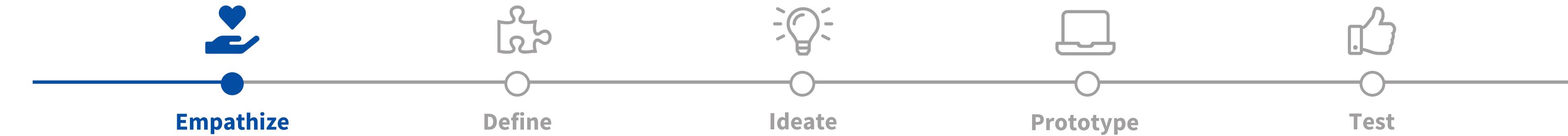
Actuals FY17 - YTD CapEx
\$276.48K ⬆️ 5.8% / \$5.4K over
 Last Plan \$281.88K

What's New
 Capabilities coming into Apptio Fusion Product Suite.

- 1 New Cloud Cost Management Capabilities
 Apptio presents Cloud Cost Management, a new product that can help you understand, manage, and optimize purchases and usage of public cloud services. It's important to track costs of public cloud because the consumption of public cloud is so easy. [Learn more ↗](#)
- 2 IT Management Reports
 The IT Management reports focus on the budget, forecast, and spend numbers by IT tower. [Learn more ↗](#)

Processes
 Get started with your financial processes.

FY2017 Q4 Forecast	FY2017 Q3 Forecast
Created Sept 1st, 2017 OpEx Totals — Deadline Sept 30th, 2017 Status Not Started Headcount Totals — Total Plan 1 Go to Process	Unsubmitted \$235,592 Created June 1st, 2017 OpEx Totals — Deadline In 3 days Status Approved Headcount Totals — Total Plan 3 Process Tracking



To offer Apptio IT Finance products in lower enterprise

Who are the users?

What pain points do they have?

Primary Persona – IT Finance Manager



Blake Hathway

Age: 36
Company: Acme Corp
Role: IT Finance Manager

Background

- Run IT finance office
- Prepare, maintain and report internal and external IT financial records
- Help IT Exec do quarterly business review with Corp finance department

Needs

- Forecast more frequently and hold IT department owners accountable for spend
- Reduce spend with insights and analytics that surface cost reductive opportunities
- Ability to present insights to key stakeholders

Frustrations

- Current tools not IT-specific – too financially oriented
- Gathering inputs for planning process is too cumbersome and error-prone – mash up of excel, Sharepoint, etc
- Can only do quarterly forecast given current tooling and resources

Secondary Persona – IT Exec



Kinsley Tucker

Age: 44
Company: Acme Corp
Role: Director of Information Technology

Background

- Lead and direct the workforce of entire IT organization
- Map out both IT strategy and IT policy within company
- Responsible for IT budget

Needs

- Reduce IT budget variance overall
- Reduce waste from overpurchase and underuse
- Ability to communicate the business value of IT and drive strategic value

Frustrations

- Business units consume IT services like they are free, and unlimited
- Being identified as the face of just another cost center – with no value-add to a business conversation



Empathize



Define



Ideate

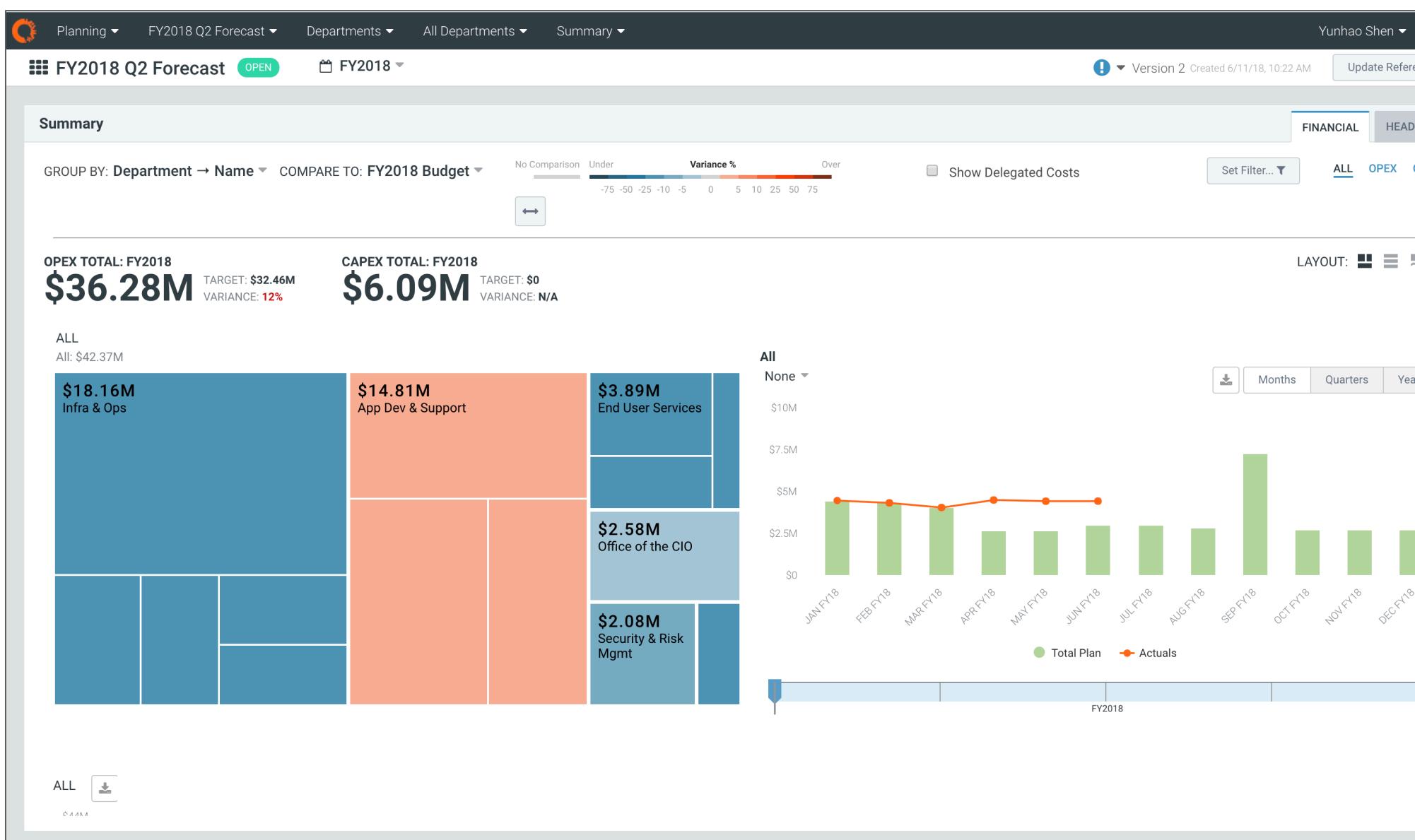


Prototype



Test

Current ITMF 1.0 Product



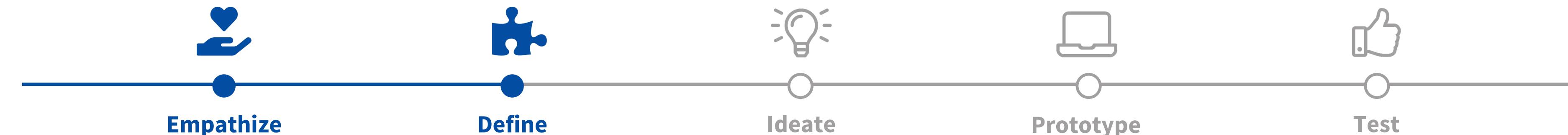
ITMF 1.0 – Home Page

The screenshot shows the ITMF 1.0 Expense Page. It displays a detailed breakdown of expenses for the year-to-date (YTD) FY18. The page is divided into sections for OPEX and CAPEX. The OPEX section shows a total of \$36.28M, while the CAPEX section shows a total of \$6.09M. The table lists various cost centers and their corresponding expenses, such as External Labor, Facilities & Power, and Data Center Ops.

ITMF 1.0 – Expense Page

- Navigation not intuitive
- User experience is not great
- Data input is still time consuming compared to traditional tools like Excel
- Lack of ability to annotate variances
- Lack of ability to do analytics and quickly gain insights
- Lack of color contrast for users with disabilities

Can't solve customers' pain points
Major upgrade is necessary

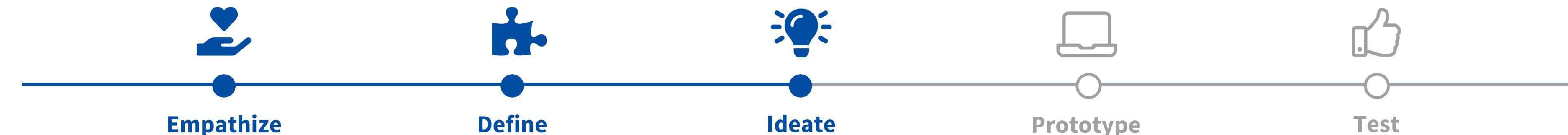


How might we help users

- Reduce level of effort
- Increase engagement and usage
- Seamlessly deliver capabilities
- Drive strategic value

Internal business goal for ITFMF V2

- 40+ new logo acquisitions (~8 at that time)
- 93% retention rates and high NPS (~42)
- Tangible in value quickly
- Profitable – Low COGS



Research Finding 1

IT finance departments have defined workflows to complete recurring tasks.



IT Finance

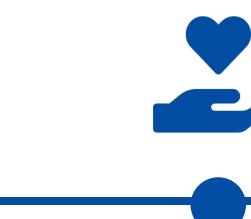
- ▶ User Personas
 - IT Finance Manager (BPO/Admin)
 - IT Exec (Approver)
 - Department Owners

Recurring end-to-end process

- ▶ Financial review
- ▶ Forecasting
- ▶ Budgeting

Non-process capabilities

- ▶ Data Management
- ▶ Analytics



Empathize



Define



Ideate



Prototype

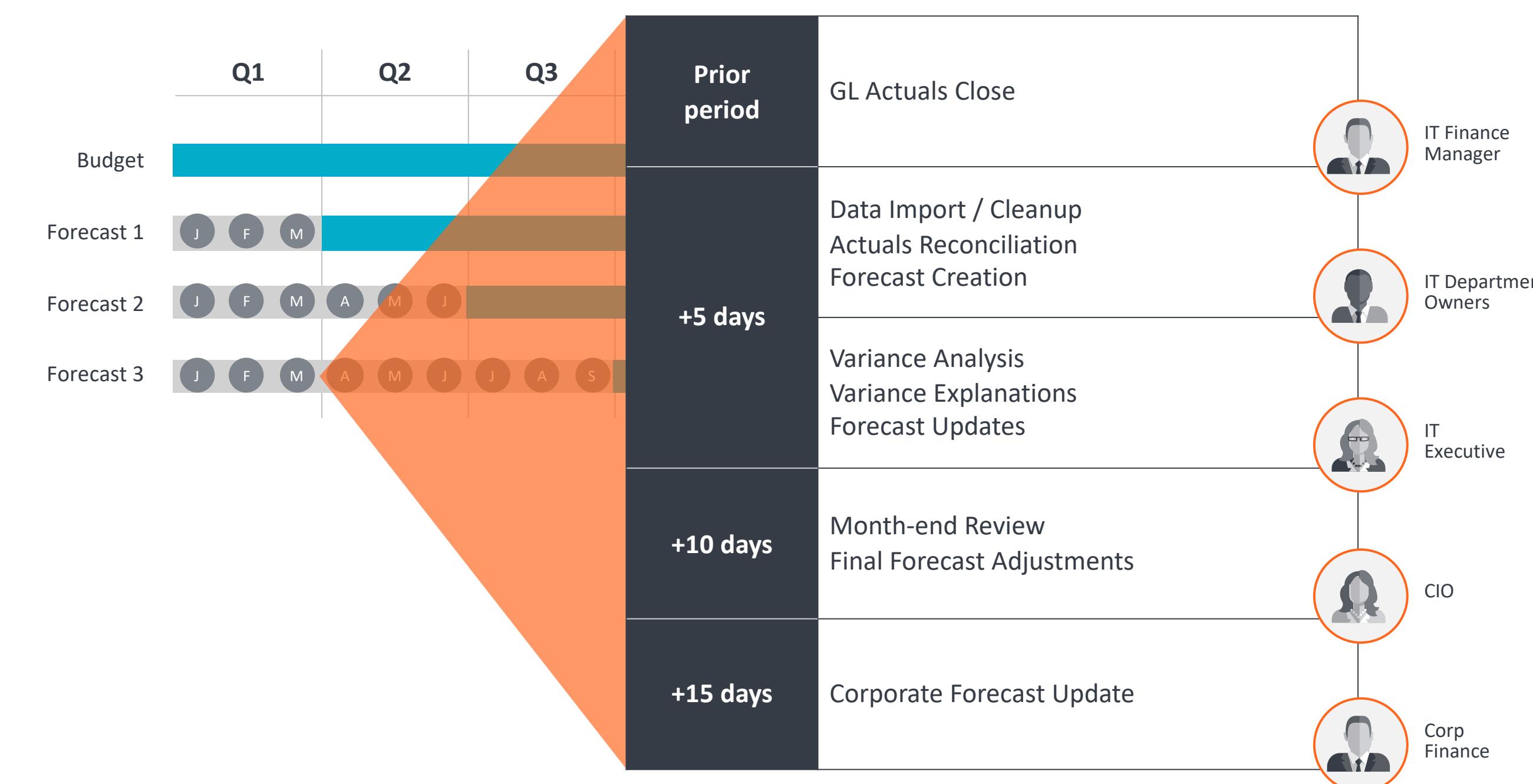


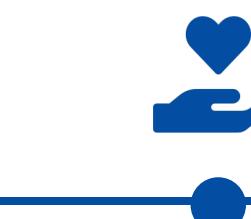
Test

Research Finding 1

IT finance departments have defined workflows to complete recurring tasks.

Financial Processes

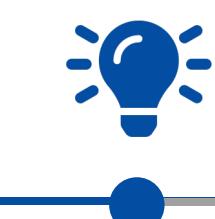




Empathize



Define



Ideate



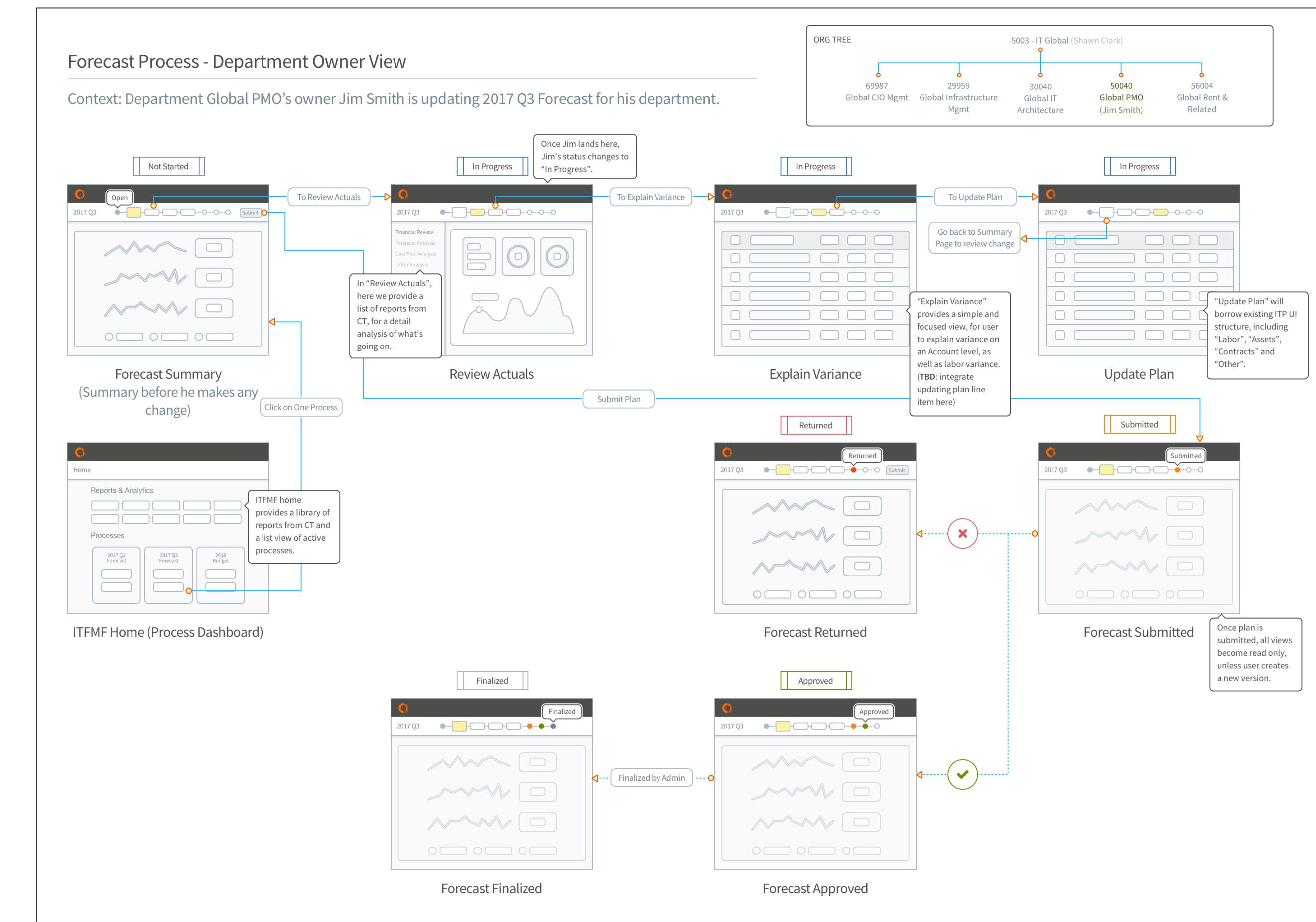
Prototype

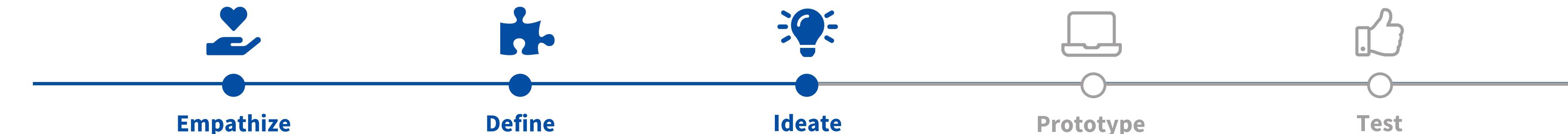


Test

Idea 1

Process flow to give users context and guide users to quickly complete complex financial tasks, and prevent errors.



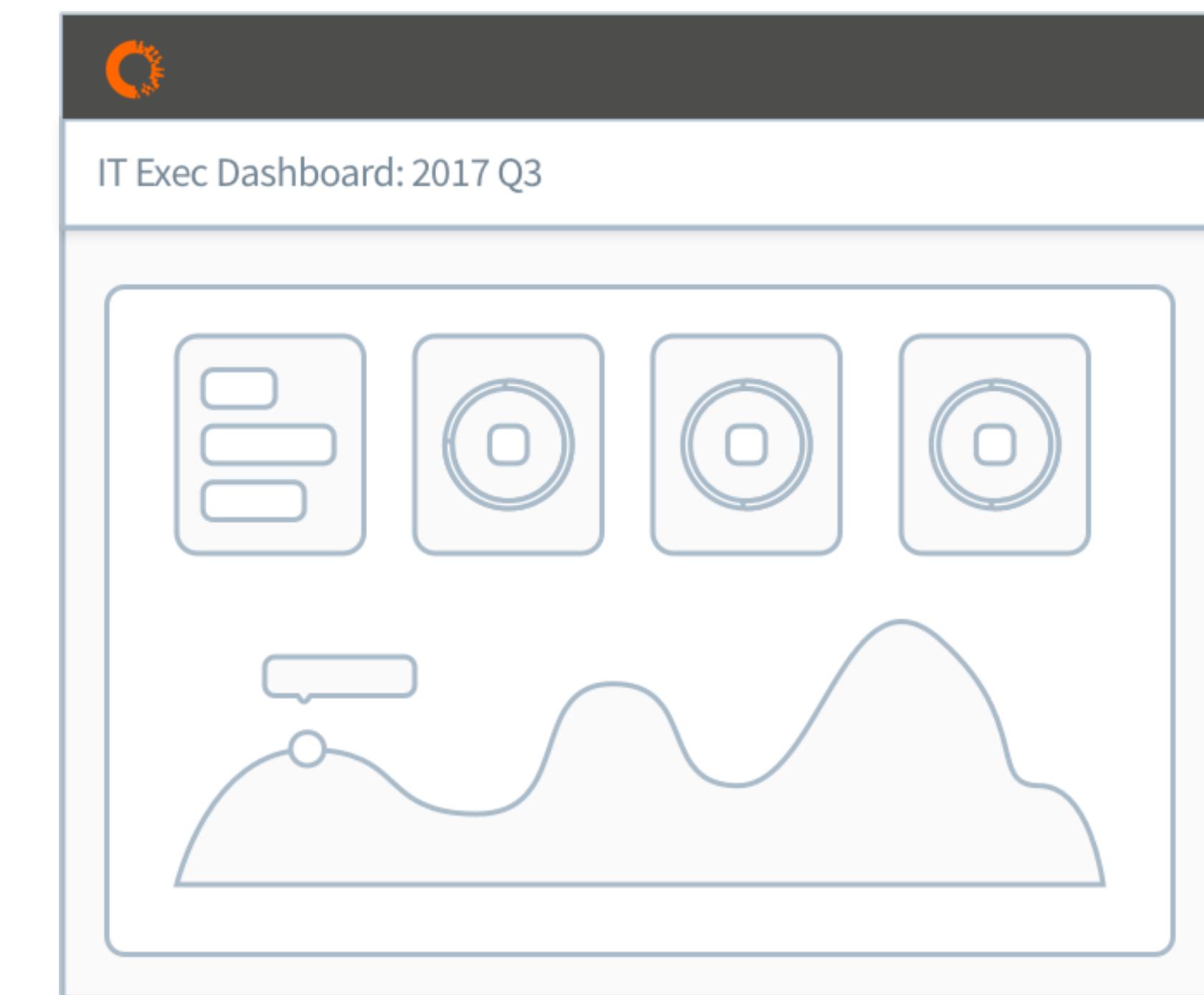


Research Finding 2

IT Exec leaders need better tooling to present financial insights besides PowerPoint.

Idea 2

Aggregated IT Exec Dashboard





Empathize



Define



Ideate

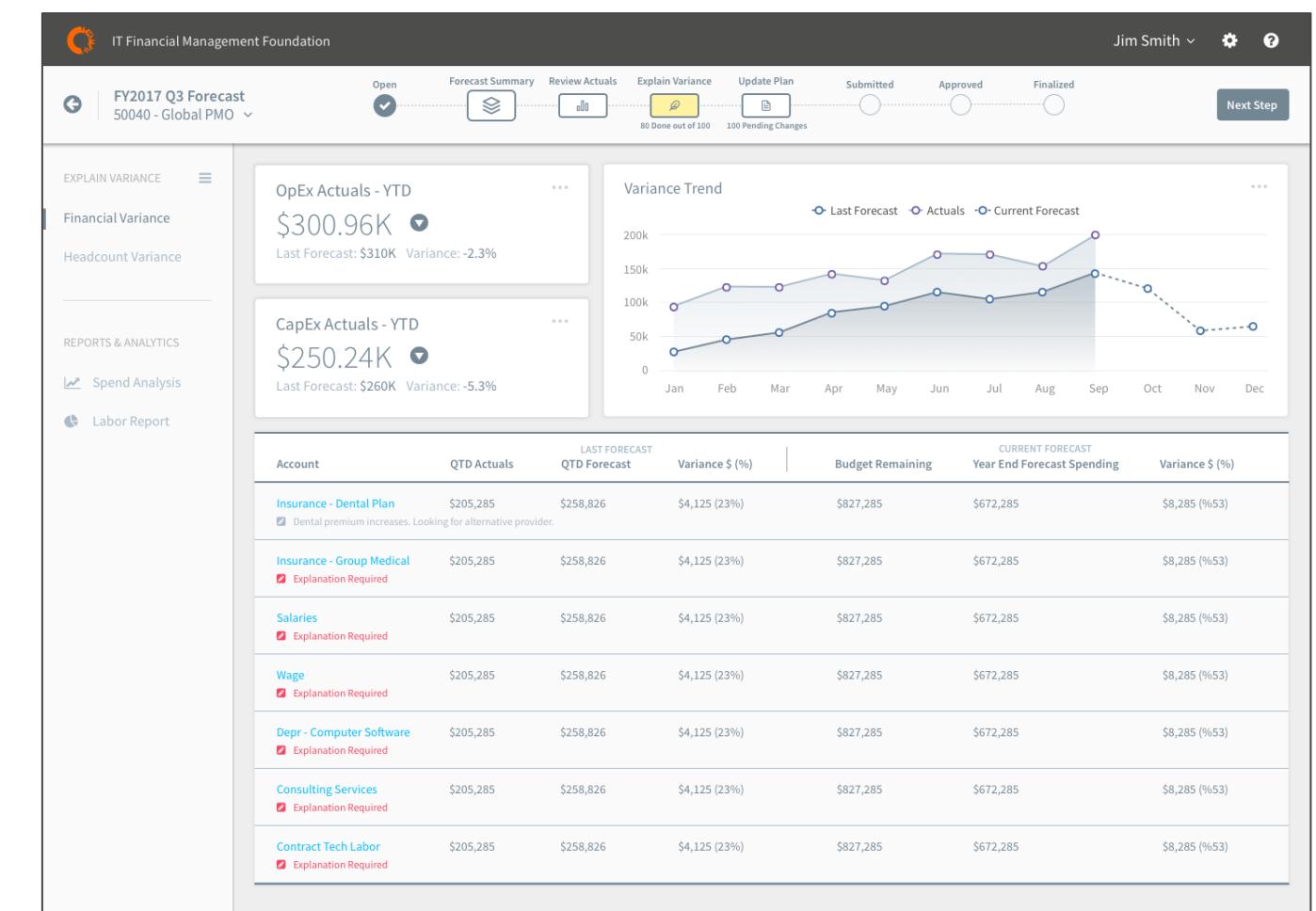
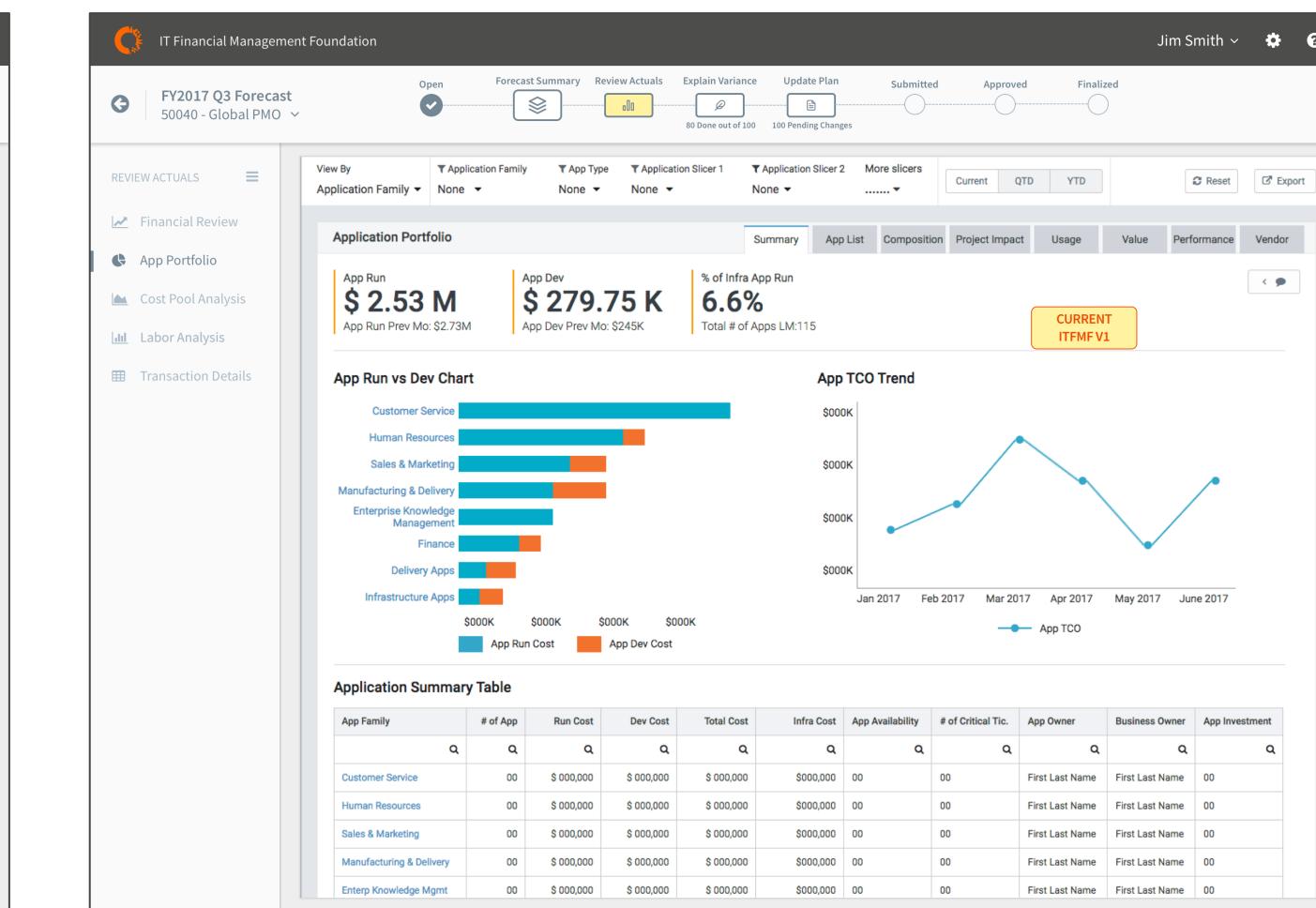
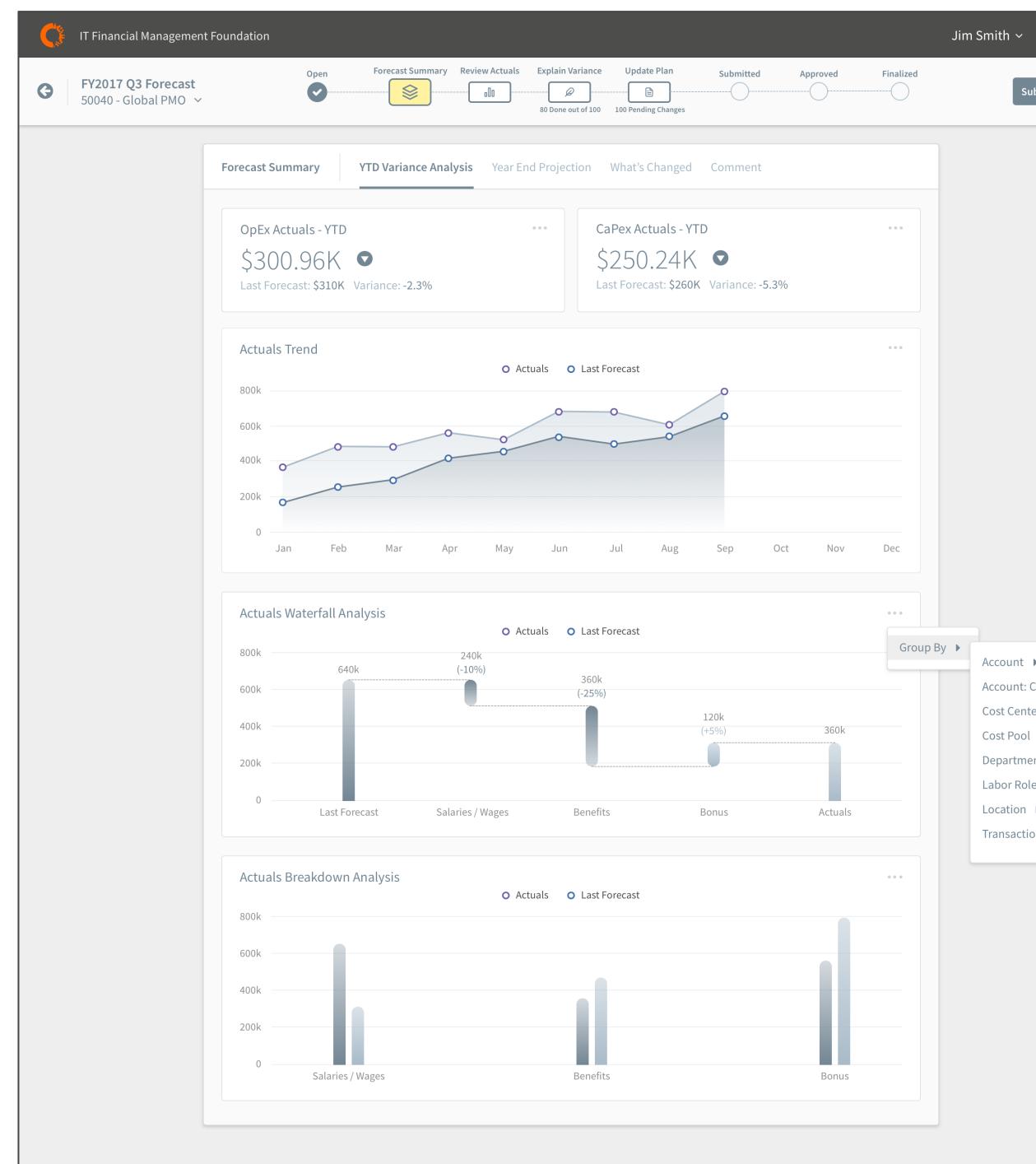


Prototype



Test

Interaction Design Iteration



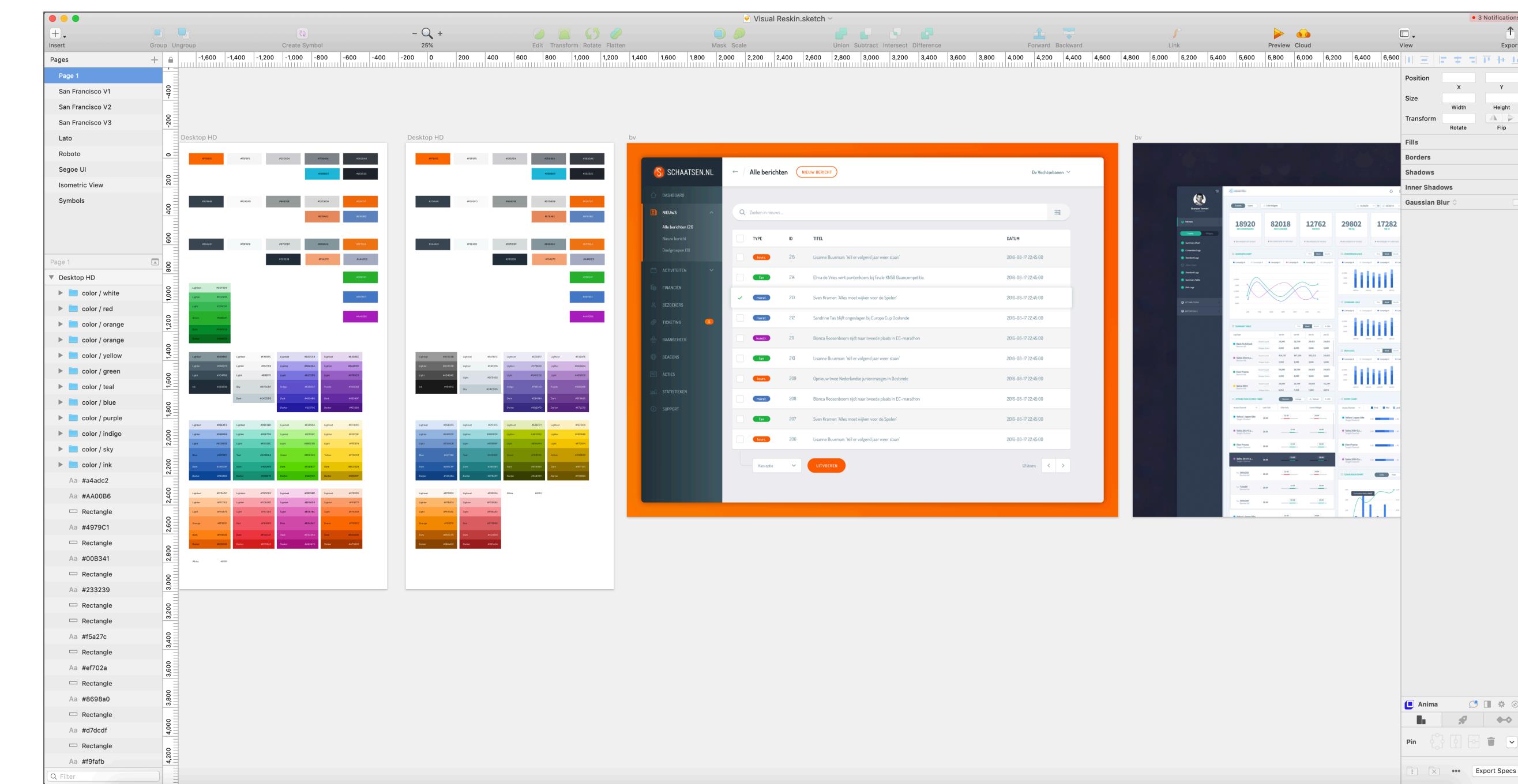
Early Feedback

- "Get Started" page should be added as first step to give IT department owners more context of what's happening. "Summary" page should be moved to the end.
- "Review Actuals" step should be part of Admin workflow, sitting with data importing and reconciliation functions.
- Budget variance is not calculated on individual Chart of Accounts level, but on an aggregated Account Category level.
- Knowing which Account Category is over budget variance threshold is good, but knowing where the variance is coming from is even better.



Visual Design Exploration

Appealing color system with high contrast to meet accessibility standard





Empathize



Define



Ideate



Prototype



Test

High Fidelity Design Combined with Visual

Welcome to Apptio ITMF

Actuals FY2018 - YTD OpEx
\$1.51M 3.4% / \$50K
Last Plan: \$1.46M

Actuals FY2018 - YTD CapEx
\$0
Last Plan: \$0

Processes
Get started with your financial processes.

FY2018 Q2 Forecast
Created April 1st, 2018 Due Date April 15th, 2018 Status Not Started Total Departments 1

ITMF 2.0 – Home Page

CC-210 - Apps - Sales & Ops Status: Not Started | Due on April 15th, 2018

Admin Message
We have a company wide initiative to cut travel expense in half.

In FY18 Q1, 1 account category was overspent beyond threshold... And 0 out of 1 explanation has been given.

Current year end outlook is ... \$5.62M on OpEx, which is 0.8% / \$50K more than original budget. \$0 on CapEx, which is equal to original budget.

[Update plan >](#)

Once everything is looking good, you can review and submit the change.

[Start reviewing >](#)

ITMF 2.0 – Financial Forecast "Get Started" Page

Account Category	Currency	FY18 Q1	FY18 Q1 - FY2018 Budget			FY18 Q1 - FY2017 Budget		
			Total	Var	Var %	Allocated Var	Total	Var
External Labor	USD	125,000	125,000	0	0%	125,000	0	
Internal Labor	USD	688,263	688,505.73	-242.66	0%	688,505.73	-242.66	
Outside Services	USD	271,750	233,440	38,310	16%	241,750	30,000	
		426,833	414,838.33	11,995	3%	425,583.33	1,250	
	USD	1.51M	1.46M	50.06K	3%	0	1.46M	50.06K

ITMF 2.0 – Financial Forecast "Explain Variance" Page

Account Category - Outside Services

Current Period Recap
\$178.82K was spent in FY17 Q3, which is 1K / 0.3% more than last plan. \$249.87K was spent YTD, which is 1.5K / 0.34% less than original budget.

Comment
You can provide additional comment here.

Year End Outlook
Current FY17 Year end outlook is \$234.98K, which is 23K / 2.3% over original budget.

Variance breakdown
Group By: Vendor

900k
750k
500k
250k
0

900k
740k
-\$24k (-10%)
-\$36k (-20%)
12k (+5%)
720k

Current Plan ABC Consulting XYZ Consulting Atusnt Inc. Last Plan

ITMF 2.0 – "Explain Variance Drill Down" page

Update Plan

Add Comparison 0/1 FY2018 Actions

Account Category	Vendor	Account	Account: Expense	Location	Description	Currency	Jan FY18	Feb I
External Labor	Contract Tech labor	OpEx	Seattle	USD	41,667	41		
Internal Labor	4 Unique	OpEx	Seattle	USD	229,368	229		
Outside Services	3 Unique	OpEx	Seattle	USD	80,583	80		
	Eloqua	OpEx	Seattle	USD	5,750	5		
	Software as a Service	OpEx	Seattle	USD	50,000	50		
	IBM Services	OpEx	Seattle	USD	24,833	24		
	Salesforce.com	OpEx	Seattle	USD	142,111	14		
	Software	OpEx	Seattle	USD	493,73K	49		

ITMF 2.0 – Financial Forecast "Update Plan" Page

Executive Summary

OpEx Actuals: Q1 FY2018 \$1.51M 3.4% / \$50K
Last Plan: \$1.46M

OpEx Year End Total: FY2018 \$5.62M 1% / \$50.06K
Last Plan: \$5.57M

Total Headcount 50 10% / 5 over
Last Plan: 45

Var. Explained / Line Item Changed 1 / 2

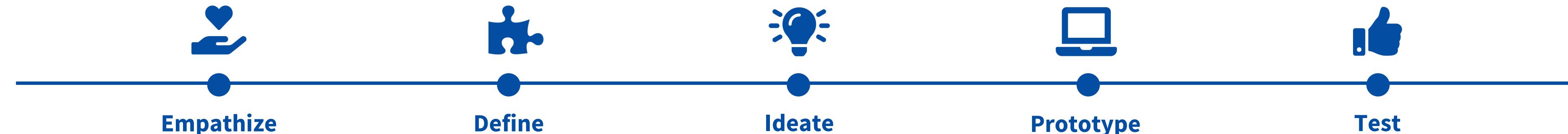
Trend Chart

4M
3M

All OpEx CapEx Months Quarters Years

Current Plan

ITMF 2.0 – Financial Forecast "Review Change" Page



Customer Preview

The Apptio Customer Preview program was an opportunity for customers to try the newest capabilities before the rest of the world and provide input to help shape these capabilities before they're released to the public.

7 preview customers: CoBank, Farmers, HomeAway, Northwell, Cancer Research UK (UK), Sanofi (FR) and Total (FR)

Clickable prototype

https://mbdszj.axshare.com/#g=1&p=single_dept_-_home&c=1

The screenshot shows the Apptio IT Financial Management Foundation homepage. It includes the following sections:

- Actuals FY17 - YTD OpEx:** \$300.96K (2.3% / \$0.4K under Last Plan: \$310K)
- Actuals FY17 - YTD CapEx:** \$276.48K (5.8% / \$5.4K over Last Plan: \$281.88K)
- What's New:** Capabilities coming into Apptio Fusion Product Suite. Includes "New Cloud Cost Management Capabilities" and "IT Management Reports".
- Processes:** Get started with your financial processes. Shows "FY2017 Q4 Forecast" and "FY2017 Q3 Forecast" tables.
- Create Process** button.

Company Profile

Acme Corp.
Fiscal Year: January - December
Current Period: April FY2018

Admin/Budget Process Owner (Kim Johnson):

- Invoke Create Process dialog from Home page:
 - Create a process for FY2018 Q2 Forecast
 - Configure process to include variance explanation and update financials, labor, contracts and asset details
 - Configure variance threshold to be 3% or \$5,000 by Account Category. Variance analysis should be completed for the previous quarter.
 - Configure default comparisons for variance analysis
- Navigate through the process steps and make adjustments as needed e.g. prepopulate explanations, adjust baseline plan
- Make the process available to Department Owners by starting the process

Single Department Owner (Tambra Assael – Apps – Sales & Ops):

- Click into **FY2018 Q2 Forecast** from Home page
- Get Started: Review instructions from TBMA and tasks to be completed
- Explain Variance: Review FY18 Q1 actuals compared to FY2018 Budget
 - Drill into the **Outside Services** account category and analyze the key variance drivers by Vendor
 - Review actual transactions and forecast plan to identify the cause of the \$30K variance
 - Provide an explanation for the variance
 - Exit the detailed view
- Update Plan: Review forecast plan summary
 - Select the clipboard icon to provide an executive summary for the department
- Review Change: Review FY2018 Q2 Forecast summary of changes for Apps – Sales & Ops
 - Review executive summary
 - Review forecasted year-end total for FY2018
 - Review variance explanations
 - Review forecast adjustments
 - Submit forecast plan

Group Department Approver (Alex Smith – App Dev & Support):

- View email notification sent for Apps- Sales & Ops forecast submission
 - Navigate to the FY2018 Q2 Forecast via link in email
- Review Change: Review forecast submission from Tambra Assael
 - Review summary of changes
 - View all variance explanations
 - View all forecast line items

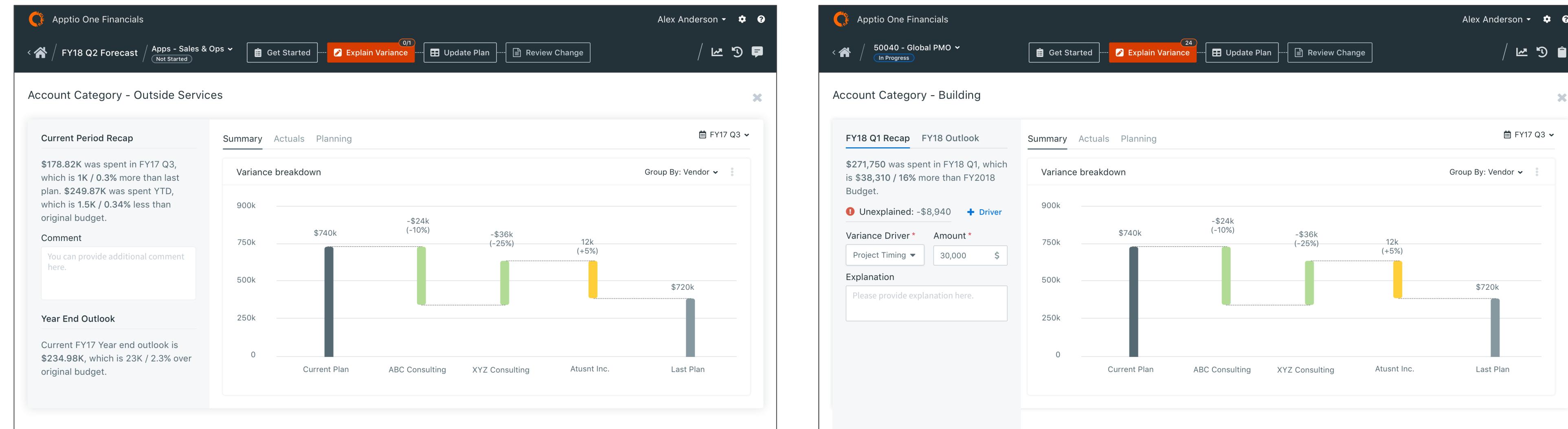


Customer Preview

Valuable Feedback – Variance Driver

When IT department owners provide explanations to budget variance, instead of just doing plain text comment, it's better to group those explanations into pre-defined variance drivers, like "Resource Demand Variation", "Change in Run Rate", "Project Timing", etc.

This way IT Exec can quickly gain a high-level view of the variance impact and have meaningful conversations with business.



Next Project

Apptio Product Experience System

Company

Apptio

Role

Design Lead & Design Technologist

Project Details

The new Apex system brought UX guidelines, design patterns, HTML/CSS/React framework, accessibility, and UI text standard all together with the best design and engineering practices.

The screenshot shows a dark-themed application interface. On the left, a sidebar contains a search bar with 'APEX' typed in, a 'Filter' input field, and a tree view of project sections: '1. Getting Started' (expanded, showing 'About Apex' and 'Designers, Developers'), '2. Guidelines' (expanded, showing 'Design Principles, Accessibility, Content'), '3. Style' (expanded, showing 'Color, Grid, Iconography, Layer, Typography'), and '4. Components' (expanded, showing 'Buttons, Card, Checkbox, ComboBox, ComposedModal, ContentSwitcher, Dropdown, Form, KPI, Modal, ModalWrapper, MultiSelect, NumberInput'). At the bottom of the sidebar are buttons for 'ACTION LOGGER', 'ACCESSIBILITY', 'README', and 'STORY'. In the bottom right corner of the sidebar is a 'CLEAR' button. The main content area features a large white 'APEX' logo and the text: 'To deliver more **consistent, polished, and delightful experiences** to our customers in a way that is **faster, cheaper, more efficient, and uses better engineering practices**'.

Operation
“APEX”

Apptio TBM Studio

Right after I joined Apptio I realized...

Apptio has 2 major product suites – Cost Transparency and IT Planning, which includes 14 product modules, **but all with different look**. We got plenty of customer complaints around confusing user experience when switching between Apptio Apps.

To ensure Apptio products' long-term success, was there anything I could help to introduce a **consistent Apptio experience?**

Apptio Cost Transparency

Disjointed experiences comes with internal pain points

From Design Perspective



- Design spec to implementation takes time
- Design team is small and we cannot support all products



From Dev Perspective

- The design idea is technically not feasible
- CSS is hard to maintain
- I want something out of box

Apptio IT Planning

I know the solution...

Design System

Google Material Design

Material Design is a visual language that synthesizes the classic principles of good design with the innovation of technology and science

*Design and UI
Single Source of
Truth*

Microsoft Fluent Design

Fluent Design includes guidelines for the designs and interactions used within software designed for all Windows 10 devices and platform.

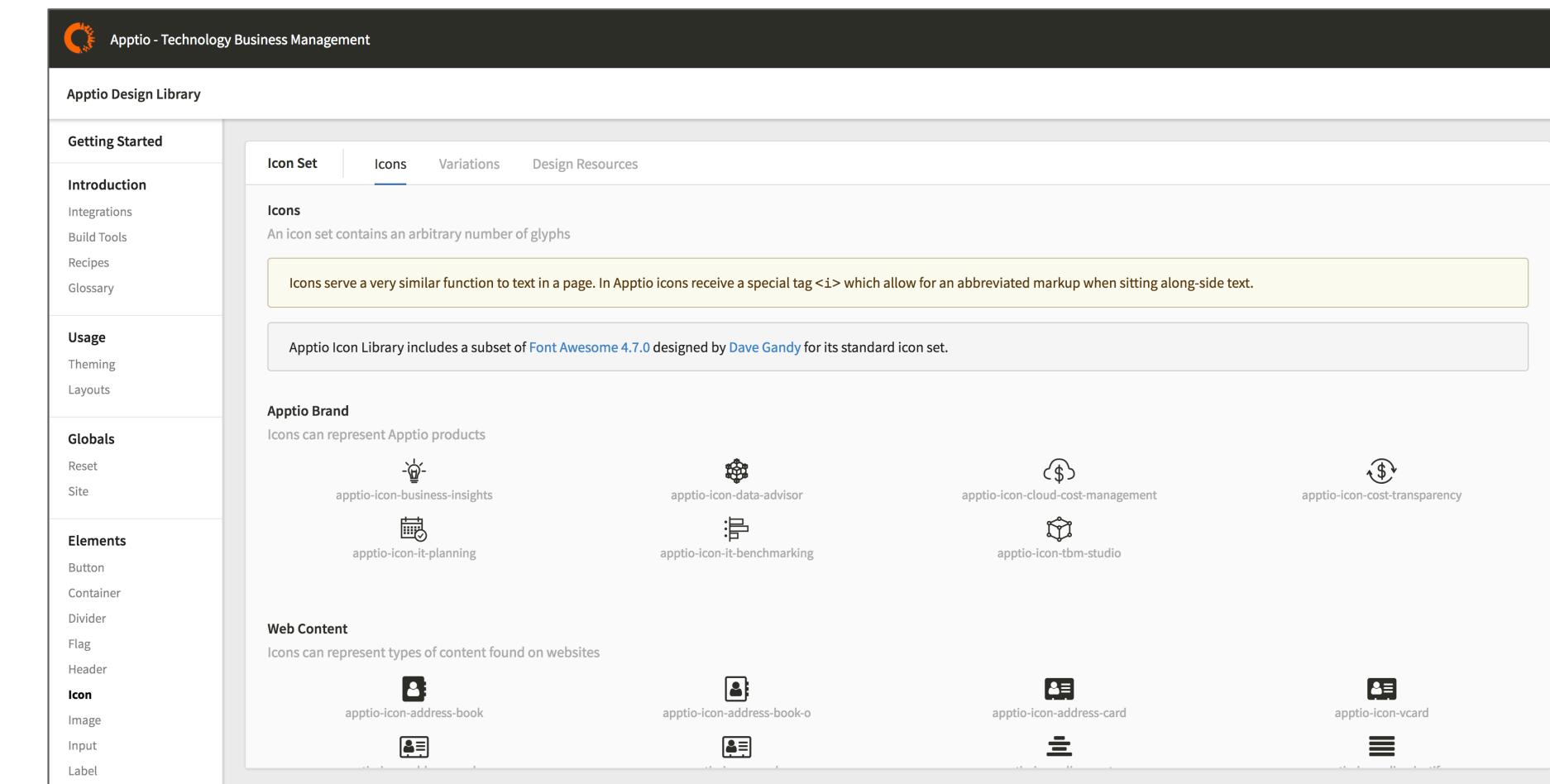
Challenge

Cross Company Initiative

Executive Sponsorship

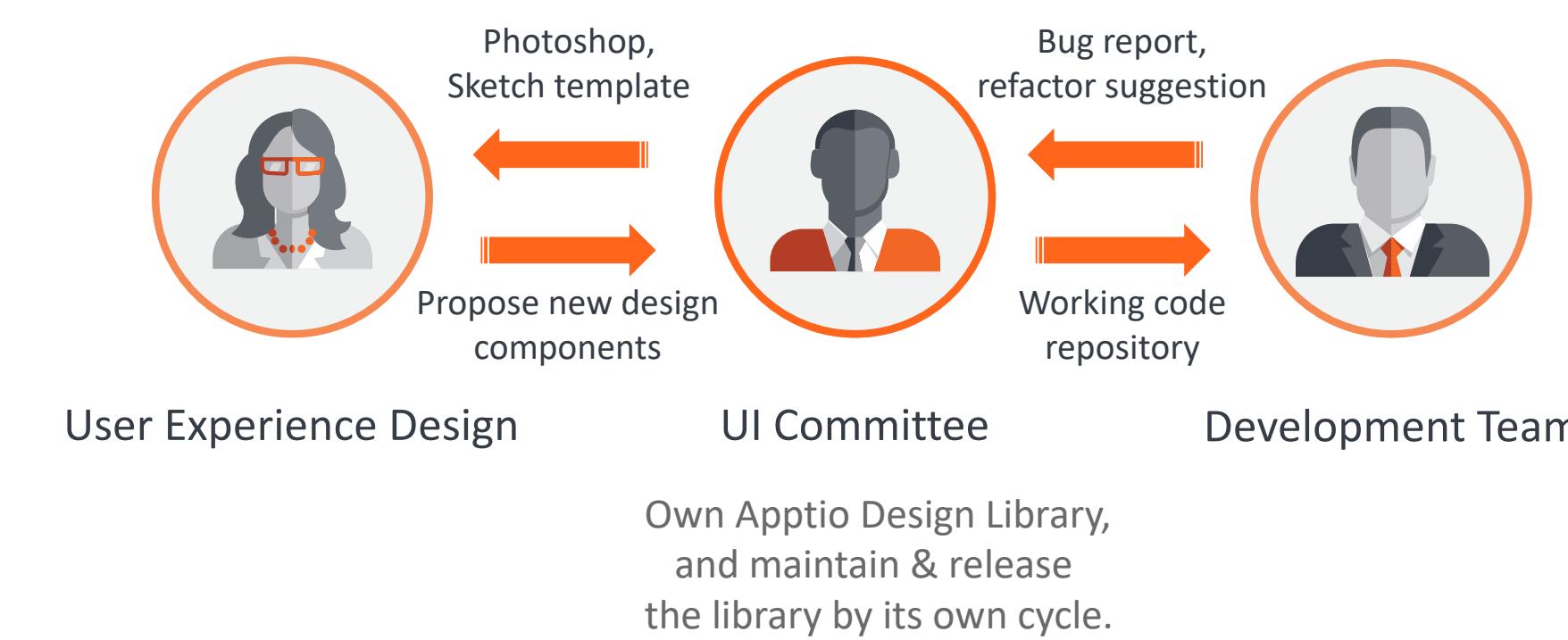
Everything starts with Apptio Hackathon 2018 – 1st Place Winner (2018.01)

After one month joining Apptio, I participated in Apptio Hackathon 2018 and presented a demo of Apptio Design Library - a design guideline as well as a working code repository including master CSS, font icon, and Javascript files.



UI Committee

During presentation, I went one step further and presented a design system governance model – UI Committee.



UI Committee > Operation “APEX”

A “uicommittee” slack channel was created right after my presentation at hackathon, which included every Apptio product designers and web developers and had a total of 17 members. Later the group decided to design and build the very first Apptio Product Experience System – code name **operation “APEX”**.

The screenshot shows a Slack workspace interface. On the left is a sidebar with various channels listed, including #apptio-p&e, #uicommittee (which is selected and highlighted in green), and #apex. The main area displays two messages from the #uicommittee channel:

- khanswadkar** 10:42 AM: I was thinking of meeting biweekly (every 2 weeks) and bringing things to the committee meeting. May be in the first one, we list all the UI pain points and then form 2 to 3 people teams to go design and develop, propose changes and then find ways to put those proposals into the products. Very scrappy and agile like Hackathons. Thoughts???
 - rtruong** 10:43 AM: Sounds like a plan.
 - tmeans** 10:50 AM: 👍
 - slee** 10:51 AM: sounds good to me!
 - yshen** 1:17 PM: Reaching a place where we have consistent "look and feel" is extremely hard (yet important). I've been thinking about it for quite long. Given my past experience and past failures, here is my pre-first-meeting proposal:
 - @slee has already established an Axure pattern library for some common UI components across Flagship and Vanguard: <https://uyzfmv.axshare.com/#g=1&p=card>. I feel like it's really a good start for us (I really should know better before my last Friday presentation. I owe her credits for this... My bad)
 - From a design perspective
 - We could leverage that pattern library's table of content and continue tweaking this library, and start incorporating some of Kai's vision on card design system, as the Apptio design "single source of truth"
 - Some of my pain points around current design (speaking purely from UI perspective):
 - Font Face: We are currently using Roboto across products, but it seems Roboto lacks quality when reaching 12px below, and renders weird when we go "bold".
 - Clean and modern color system
 - From a UI development perspective
 - As you all know, this website was created and hosted on our product design server: <https://productdesign.apptio.lan/design-library/>. It was written in Angular2 and if you have a Bitbucket account, I can invite you to this code repository.
 - The website is just for publishing UI components and giving design and coding guidance, the core is actually the componentized SASS/LESS and javascript files behind it. Ultimately, we can pull SASS/LESS and javascript files out of this website, and package it as an Apptio frontend "single source of truth", and host it somewhere on our private Nexus registry, so all teams can say "npm install"
 - I can change the website's left nav to match Selene's library table of content, then we can form small teams and start coding each component out, based on design pattern library. Or even I can rewrite the entire website in React, it seems we are more familiar with it.
 - Some particular thoughts around coding:
 - We are only providing frontend framework (hopefully we could write every component in pure javascript/typescript). It seems better for each team to integrate it with the particular tech stack (GWT, React, etc.) and test it with real app functions.
 - For each component, we could directly borrow Bootstrap or some other popular frameworks. But it seems better we reach deep into SASS files, copy some settings and build our own, instead of citing the entire .css file and start overwriting.
 - Another thing is "accessibility". It's a particular request from product team. It seems "ARIA" label is the way to do it.
 - yshen** 1:35 PM: And fruit of thoughts, we could leverage BEM model: <http://getbem.com/introduction/> to name our UI components, and have apptio or apt as classname prefix. MS Office and Salesforce are using this model for their framework.
 - khanswadkar** 10:11 PM: Thanks @yshen on a very detailed writeup. I agree on the two perspectives laid out and we should shoot for some joint outcomes that we can clearly demonstrate.

On the right side, there is a sidebar with the following sections:

 - About #uicommittee
 - Channel Details
 - Highlights
 - 1 Pinned Item (by **rlarson** Mar 28th)
 - 17 Members
 - Shared Files
 - Notification Preferences

UI Committee Board

- Director of product design
- Lead designer and design technologist (**Me**)
- Senior web developer of Apptio Cost Transparency
- Senior web developer of Apptio IT Planning

APEX

How APEX should work?



Design

Consistent & Elegant

- Design principles
- Visual system, including colors, icons, typography, grid system, spacing, etc
- Atomic UI design pattern library



Development

Efficient

- UI components need to be built in a reusable way with good documentation
- React and Storybook JS



Content

UI Text Standards

- Capitalization
- Punctuation
- Error and information messages
- Localization

APEX Design Sub-Committee

Design team got together twice per week to talk about

- Design principles
- Accessibility
- Text standard
- Color system
- Typography
- Iconography
- High level page IA
- Scope of the UI components we need

Each design team member got assigned a couple of UI components

- To do thorough research on the use of UI components
- Research came from both existing design systems and Apptio common use cases
- Later came back with design proposal using pre-defined documentation template

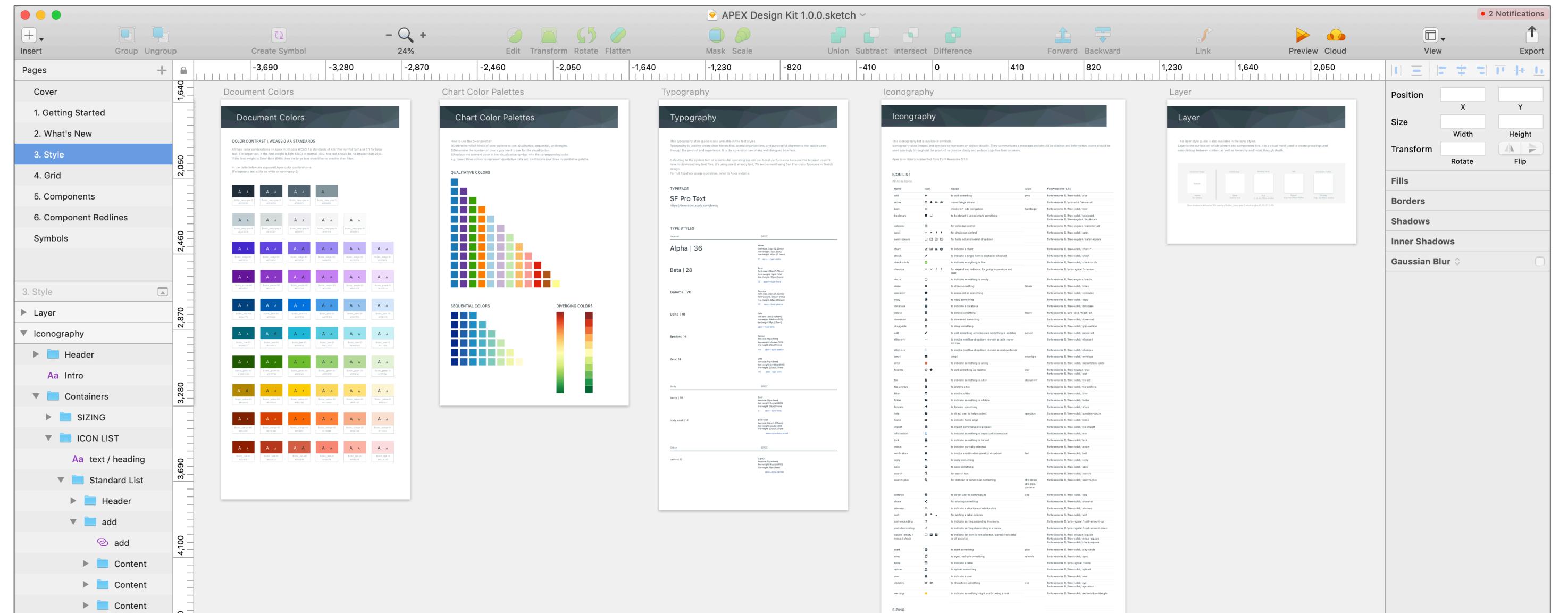
Once UI components were signed off by the team

- Apex sketch symbol library was built, on which all later product feature design was based
- I was further responsible for communicating the design to Engineering team and have UI components built in Apex React component library.

Design

Guidelines

Design Principles
Accessibility
Content

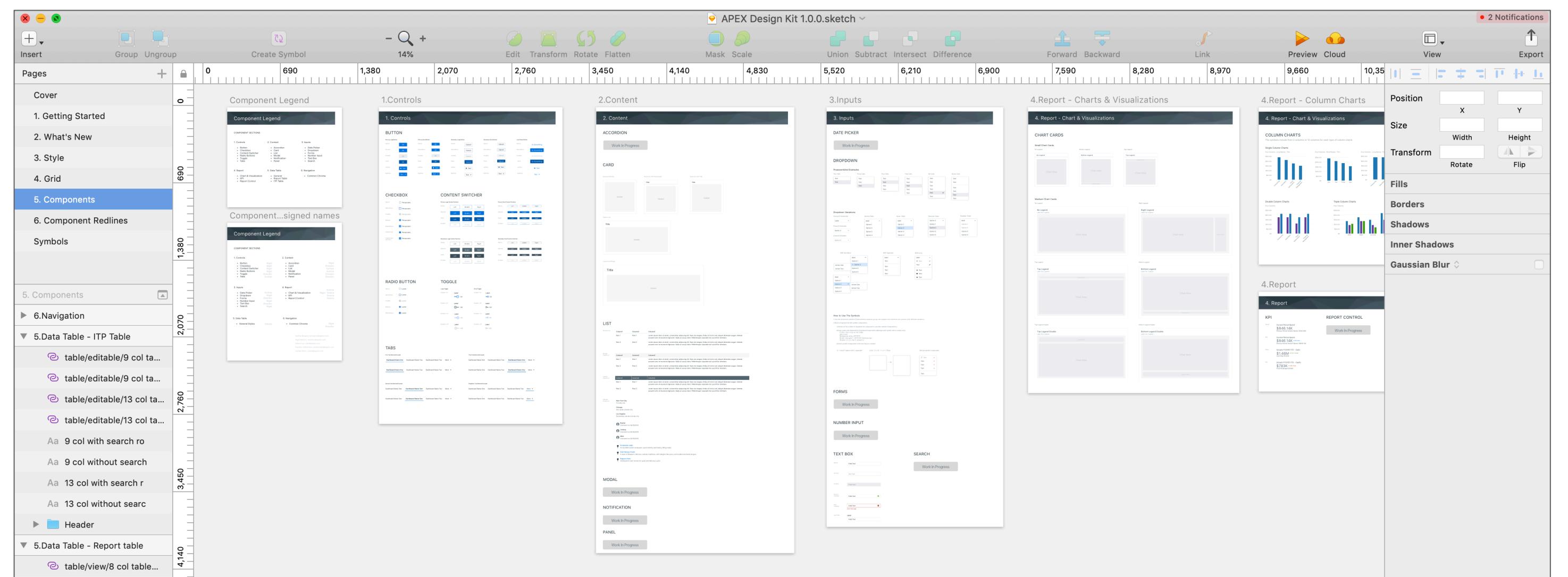


Style

Color
Grid
Iconography
Layer
Typography

Components

Buttons
Card
Checkbox
ContentSwitcher
Dropdown
Form
KPI
Modal
...



Design

Guidelines

- Design Principles
- Accessibility
- Content

Style

- Color
- Grid
- Iconography
- Layer
- Typography

Components

- Buttons
- Card
- Checkbox
- ContentSwitcher
- Dropdown
- Form
- KPI
- Modal
- ...



Apex Design Kit maintained in GitLab

A

apex-design-kit

Star 0 Fork 0 SSH git@git.dapt.to:design/apex-de

Files (50.7 MB) Commits (29) Branch (1) Tags (0) Readme Add Changelog Add License Add Contribution guide Set up CI

master apex-design-kit / +

feat(checkbox, content switcher, dropdown, modal, tab): adding new sketch symbols Selene Lee committed a month ago

Name	Last commit
.images	doc(README): add README.md file to git re...
APEX Design Kit	feat(checkbox, content switcher, dropdown, ...)
Previous Releases/APEX Design Kit 0.0.0	fix(global): including missing files from the la...
README.md	doc(README): add README.md file to git re...
README.md	

Project Repository Issues 1 Merge Requests 0 Pipelines Wiki Snippets Members Settings

Files Commits Branches Tags Contributors Graph Compare Charts

master apex-design-kit

27 Sep, 2018 8 commits

Commit Message	Author	Date	SHA	Action
feat(checkbox, content switcher, dropdown, modal, tab): adding new sketch symbols	Selene Lee	a month ago	0d97b861	Browse Files
Deleting content switcher, dropdowns, tabs, checkbox sketch files	Selene Lee	a month ago	7e76ebd2	Browse Files
fix(toggle): renamed symbol	Selene Lee	a month ago	e17f8409	Browse Files
fix(textbox): renamed symbols	Selene Lee	a month ago	fe62a77c	Browse Files
fix(button): renamed symbols, adjusted minor styling details	Selene Lee	a month ago	add86c7b	Browse Files
feat(kpi): added a kpi with only one metric	Selene Lee	a month ago	4af7b3ce	Browse Files
fix(card): renamed card symbols	Selene Lee	a month ago	22283a4b	Browse Files
fix(button): renamed button symbols	Selene Lee	a month ago	d899aec3	Browse Files
Added search cell with 14px font size and modified pagination design.	Selene Lee	a month ago	0e35afb8	Browse Files
Removed version in the folder name	Selene Lee	a month ago	4bf5821f	Browse Files
doc(README): add README.md file to git repo as Get Started tutorial	Yunhao Shen	a month ago	b72b09c5	Browse Files
fix(global): including missing files from the last commit	Sijin Chen	a month ago	6a53f7d1	Browse Files

The screenshot shows the APEX component library interface. On the left, there's a sidebar with a tree view of components under '4. Components'. Under 'Form', it lists 'Form.Item', 'Form.Label', 'Form.Label with tooltip', and 'Form.Group'. Below this, 'all Form components' is expanded, showing 'KPI', 'Modal', 'ModalWrapper', 'MultiSelect', 'NumberInput', 'RadioButton', 'RadioButtonGroup', 'Search', 'Select', 'Tabs', 'TextArea', 'TextInput', 'Tooltip', 'TooltipDefinition', 'TooltipIcon', and '5. Sample Pages'. At the bottom of the sidebar, '6. Under Development' is listed. The main content area displays a card for 'Form.Group' with sections for 'Checkbox heading' (checkboxes with checked and unchecked states), 'Number Input' (a text input with value '50'), and 'Toggle heading' (a switch between 'Off' and 'On'). Below this, another card is shown for '4. Components/Form all Form components', which includes a 'Story Source' code block:

```
<Form className="some-class" onSubmit={onSubmit}>
<FormGroup className="some-class" legendText="Checkbox heading">
<checkbox
  defaultChecked
  className="some-class"
  labelText="Checkbox label"
  id="checkbox-0"
/>
<checkbox
  indeterminate
  className="some-class"
  labelText="Checkbox label"
  id="checkbox-1"
/>
<checkbox
  disabled
  className="some-class"
  labelText="Checkbox label"
  id="checkbox-2" />
<checkbox
  className="some-class" labelText="Checkbox label" id="checkbox-3" />
</FormGroup>
<FormInput
  className="some-class"
  id="number-input-1"
  label="Number Input"
  min={0}
...>
```

APEX Development Sub-Committee

Borrowed IBM Carbon Design System Code Repo (Open Source)

<https://github.com/IBM/carbon-components>

The screenshot shows the Apex Components React library interface. The sidebar has sections for '1. Getting Started' (About Apex, Designers, Developers - highlighted), '2. Guidelines', '3. Style', '4. Components', '5. Sample Pages', and '6. Under Development'. The main content area has a 'pipeline passed' status bar. It features a 'Usage' section with a 'List of Available Components' table (which is currently empty) and a 'Getting Started' section with Yarn and import instructions for React components.

But did deep customization

Based on Design team's APEX component design proposal

The first screenshot shows the 'Project' tab with a summary of the repository: 1 star, 1 fork, 2 issues, and 1 pipeline. It also shows a file tree for 'apex-components' with sub-directories like .gitlab, storybook, config, docs, scripts, src, ssr-tests, .a11y, and .ignore.

The second screenshot shows the 'Repository' tab, specifically the 'Commits' section. It lists 24 commits from October 2018, including merges from 'release/v0.40' and 'feature/yshen-r12-theming' branches, and various feature and bugfix commits.

The third screenshot shows the 'Files' tab, displaying the 'CONTRIBUTING.md' file content, which includes the Apex Developer Contribution Guideline and Gitflow information.

APEX Development Sub-Committee

Borrowed IBM Carbon Design System Code Repo (Open Source)

<https://github.com/IBM/carbon-components>

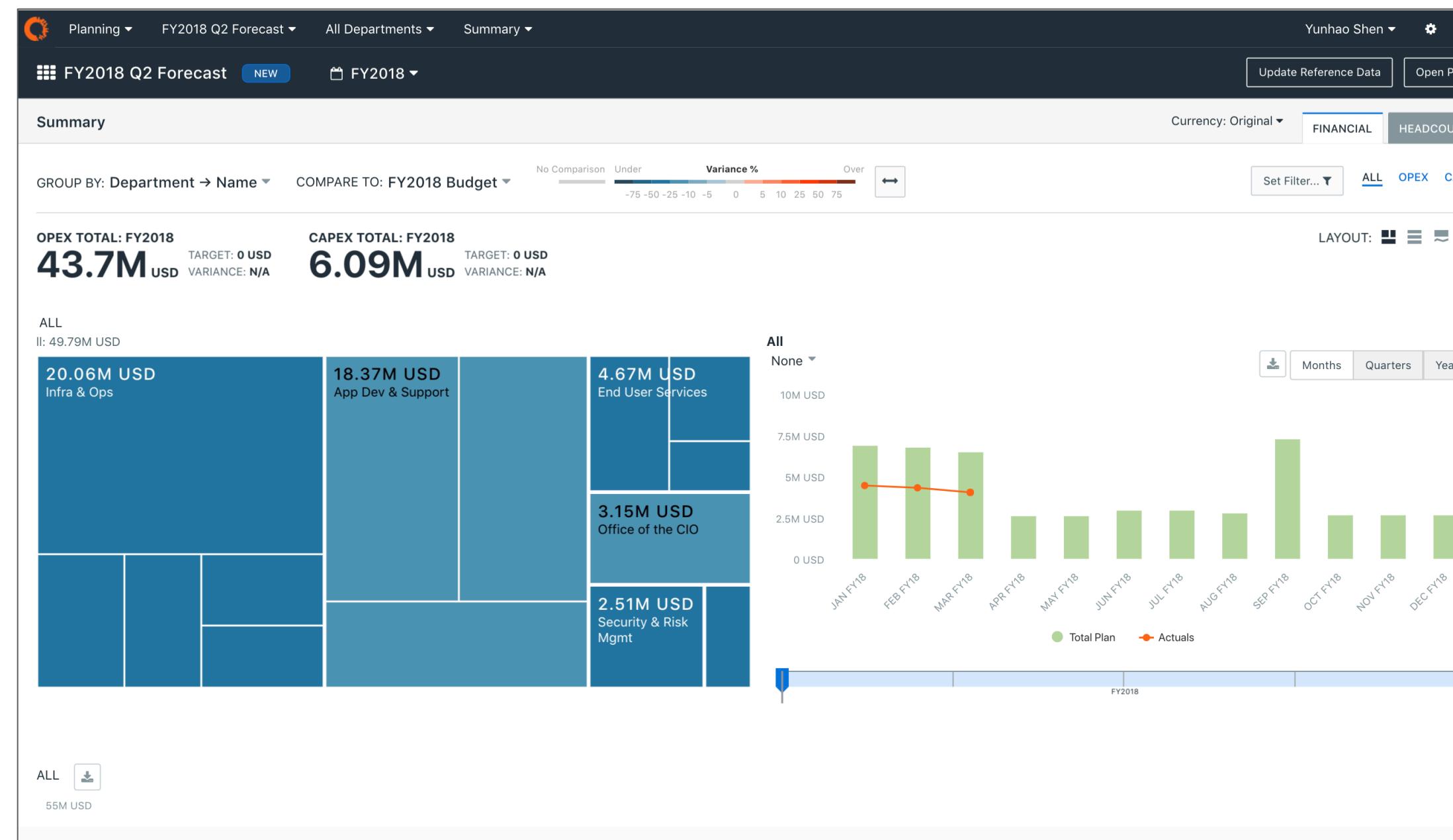
But did deep customization

Based on Design team's APEX component design proposal

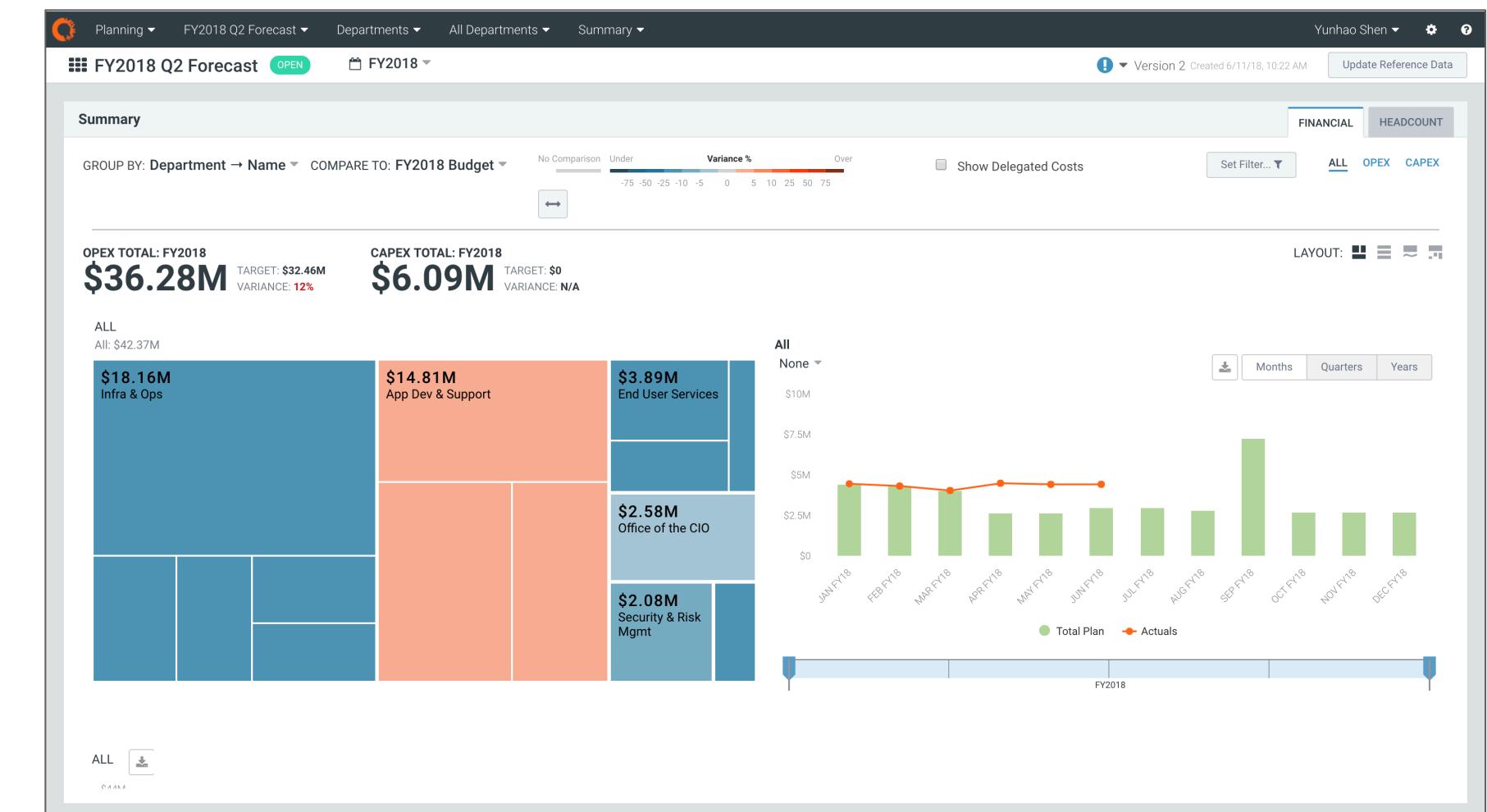
The first screenshot shows the 'Issues' tab with 9 open issues, including topics like 'Set default text color for elements in <ModalHeader>', 'Include necessary polyfills in the dist', 'Improved Pagination Design', 'Prepare apex for a v0.1.0 release', 'Need better import paths for "apex-components"', 'Keyboard accessibility support', 'WIP implementation of Tab Component with default Overflow Handling', 'Follow-up from StructureList selectable cell', and 'Css typescales need to be adjusted to match design specs'.

The second screenshot shows the 'Repository' tab, specifically the 'Issues' section, where users can search or filter results and submit new issues.

Using APEX in Product Development



ITMF 1.0



ITMF 1.5 = ITMF 1.0 + APEX

APEX lives even after I left Apptio

Recently released Apptio Agile Investment Planning continues leveraging APEX design system and react component library

The screenshot shows the Apptio Agile Planning interface. On the left, there's a navigation sidebar with options like Strategy, Portfolio, Product, Resource, and Config. The main area is titled "PRODUCT > Roadmap". It shows a "PROGRAM INCREMENT Q1 2018 - Q4 2018" and a "PORTFOLIO Vanguard". Below this, there's a "BACKLOG" section with a search bar and a table showing items like "Group Customer Portal" and "Outsource Location Support". To the right, there are sections for "RELEASE TRAINS" and "ROADMAP". The "ROADMAP" section is expanded, showing two release trains: "Agile Planning Release Train" and "Agile Planning Release Train 2". Each train has four columns for Q1 2018, Q2 2018, Q3 2018, and Q4 2018, listing various tasks and their counts.

The screenshot shows the Apptio Agile Investment Planning interface. On the left, there's a navigation sidebar with options like Strategy, Portfolio, Product, Resource, and Config. The main area is titled "RESOURCE > Release Trains". It shows a "PORTFOLIO <All Portfolios>" and a "PRODUCT <All Products>". Below this, there's a "RELEASE TRAINS" section with a table showing five release trains: "Release Train 1" (Agile Planning), "Release Train 2" (Actionable Insights), "Release Train 3" (Project Planning), "Release Train 4" (Data Ingress), and "Release Train 5" (Cloudability). To the right, there's a detailed view of "Release Train 1" for Q2 2018. It shows "Allocated capacity 170 dev-days" and "Available capacity 93.5 | 55% of allocated". A legend indicates the types of investment activities: New Feature (blue), Minor Enhancement (green), Technical Debt * (purple), and Servicing/Bug Fixes * (orange). There's also a note: "*Exclude from Available Capacity". At the bottom, there's a button labeled "Apply this Investment Activity mix to future selected Program Increments" and a "Apply" button.

Apptio Agile Investment Planning

We did APEX in the right way!

Next Project

Connected Mazda

Personal Project
mycar.yunhaoshen.com

Role

Design & Development

Project Details

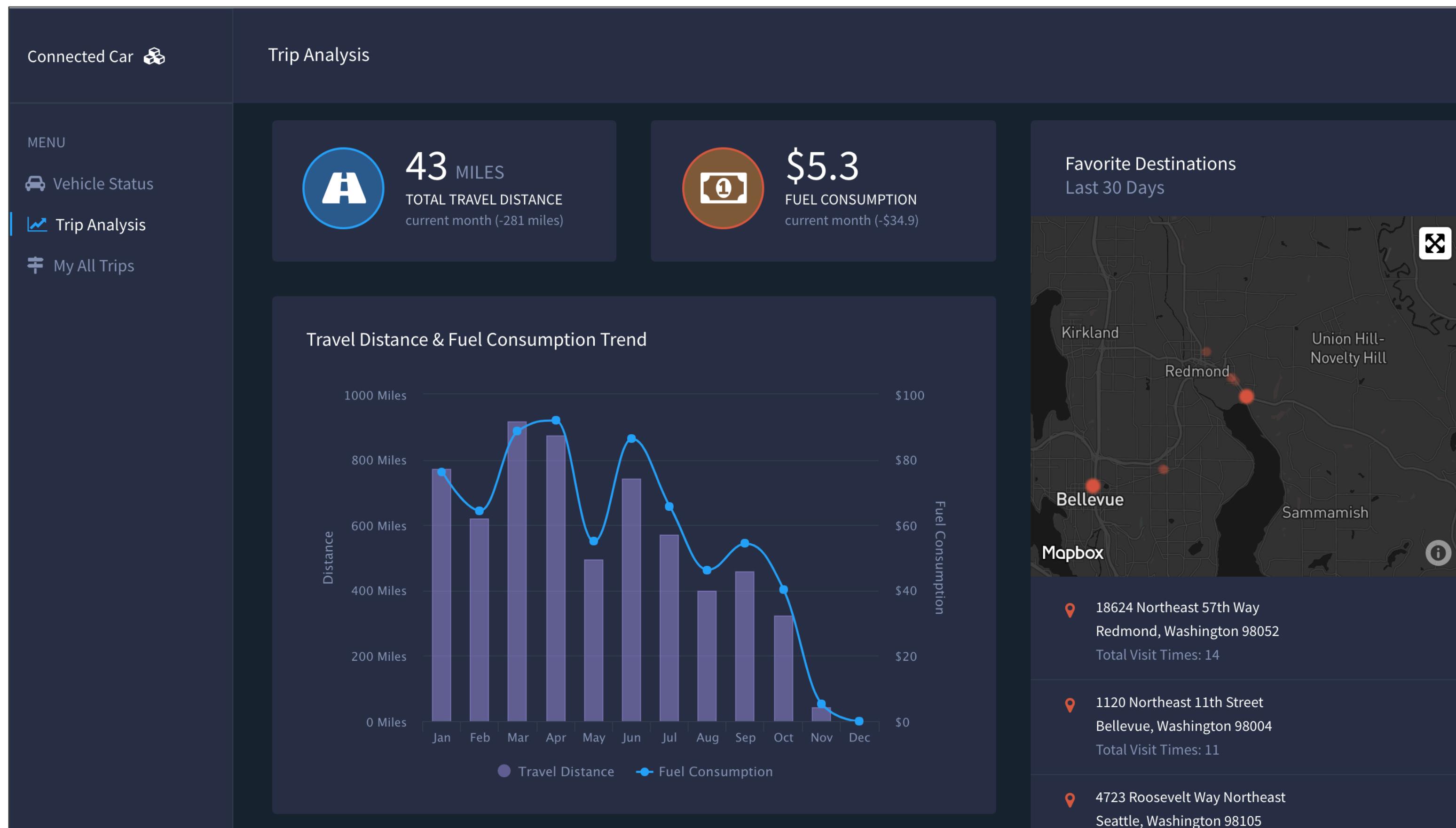
I did an interesting side project to turn my Mazda3 into a Smart Car, and built a fully responsive web app to track where I went and all my driving statistics.

My driving data dates back to March 5th, 2017, and has a total of **2,641** trips and **1.53 million** geo coordinates till today, and is continuing growing.

<https://mycar.yunhaoshen.com>

Username: yunhaoshen

Password: contact me at xiaohao9006@gmail.com for password



Internet of
Things

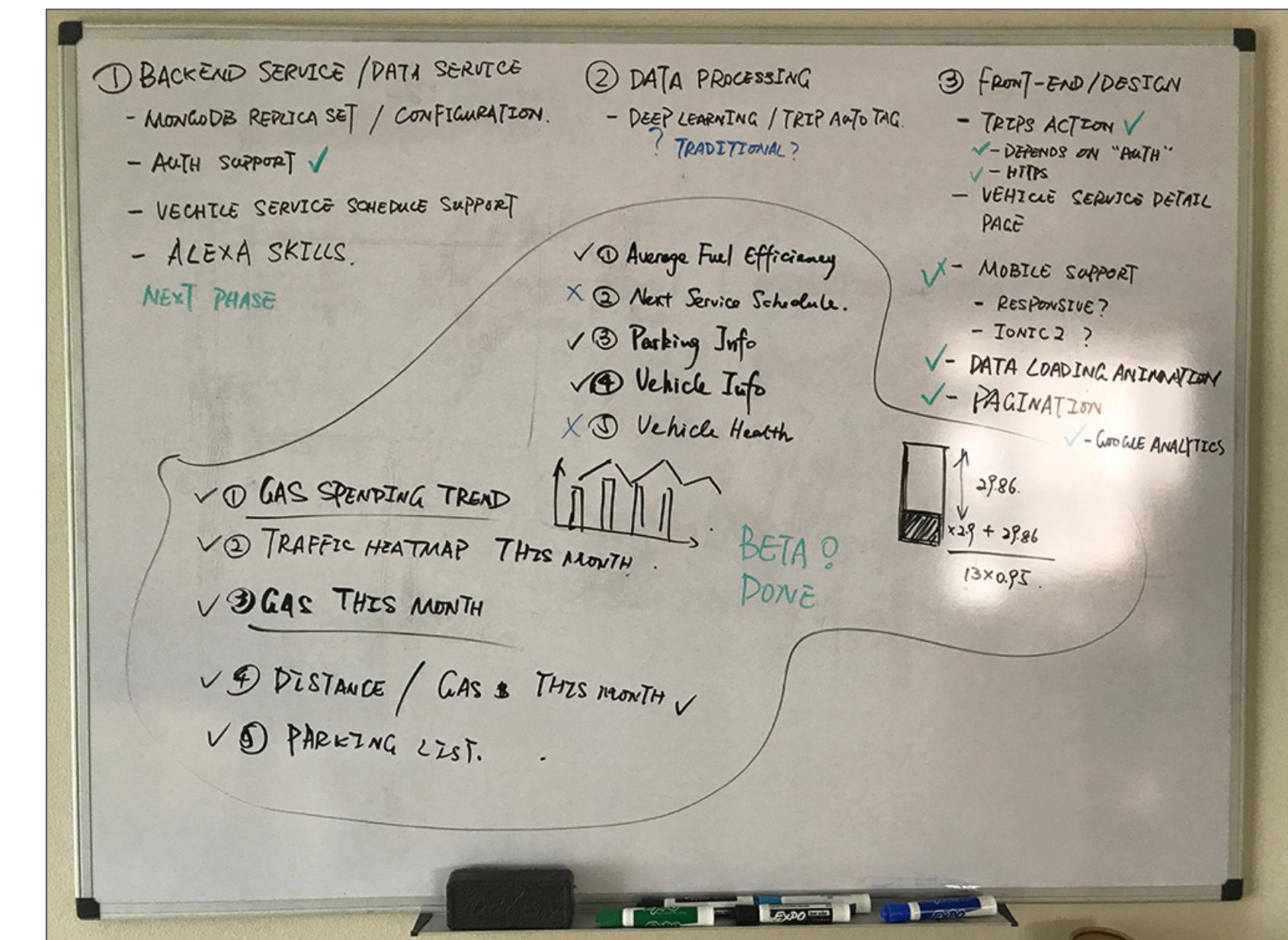
Design

Whiteboard Ideas

List out function requirements and brainstorm design ideas.

Design

"Sketch" out main pages.



Vehicle Status

Mazda
2014 Mazda3

Current Vehicle Location

Vehicle Information

- VIN: J1MJA5JD3451KASD9877
- Vehicle Type: Car
- Year: 2014
- Cylinders: 4
- Displacement: 2.5 CID
- Max Horsepower: 184 @ 5700
- Transmission: 6-speed Shiftable Automatic
- Recalls #: 2

Trip Analysis

156 MILES
TOTAL TRAVEL DISTANCE
current month (+56 miles)

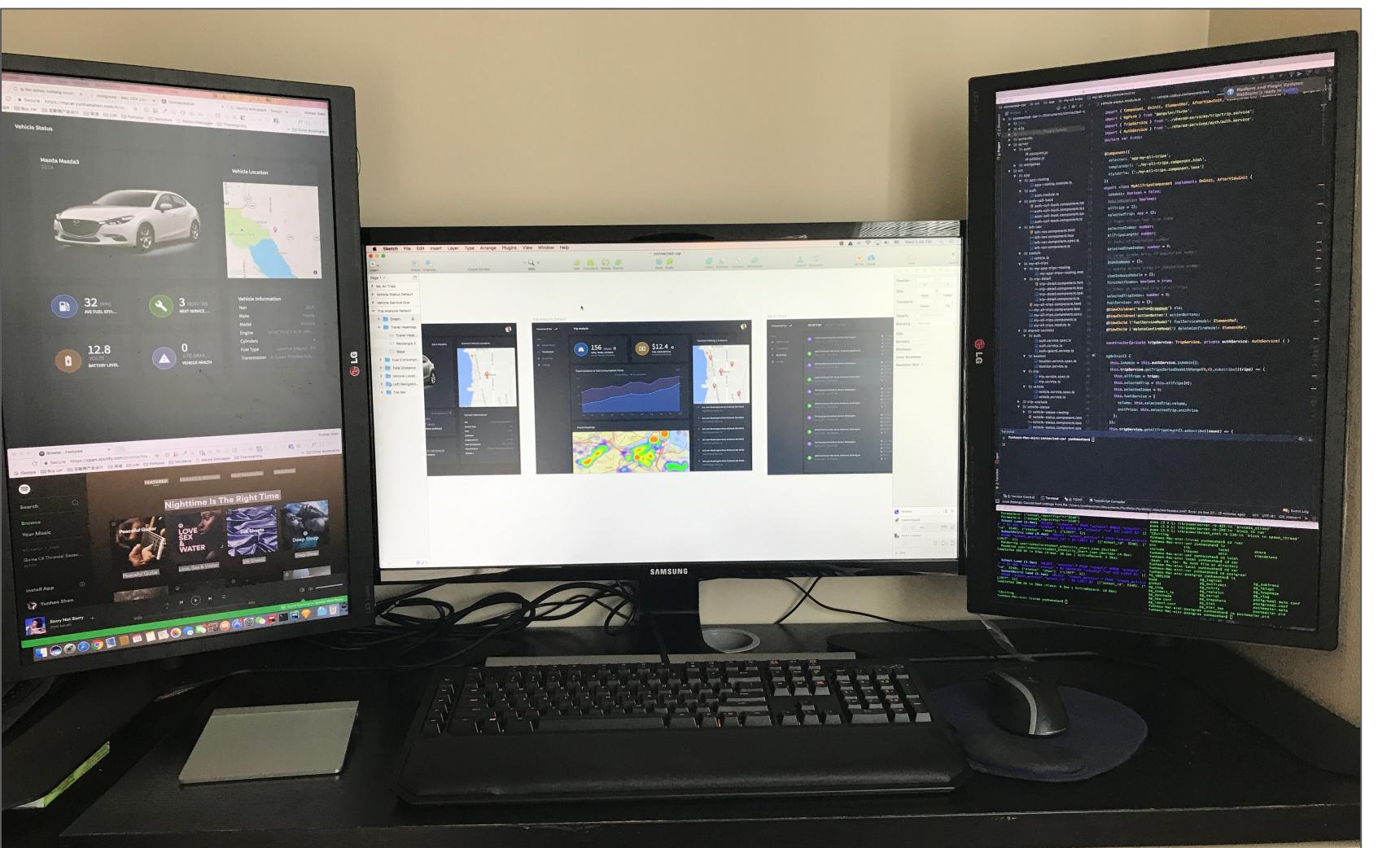
\$12.4
FUEL CONSUMPTION
current month (-\$24)

Travel Distance & Fuel Consumption Trend

Travel Heatmap

Favorite Parking Locations

- 123 Lake Washington Blvd, Kirkland, WA 98152 Total Parking Times: 25
- 123 Lake Washington Blvd, Kirkland, WA 98152 Total Parking Times: 25
- 123 Lake Washington Blvd, Kirkland, WA 98152 Total Parking Times: 25
- 123 Lake Washington Blvd, Kirkland, WA 98152 Total Parking Times: 25
- 123 Lake Washington Blvd, Kirkland, WA 98152 Total Parking Times: 25
- 123 Lake Washington Blvd, Kirkland, WA 98152 Total Parking Times: 25



Development

Database

MongoDB

Backend Server with REST API

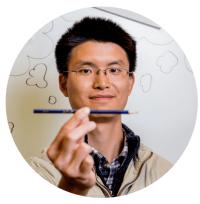
Node JS

Front End Responsive Web App

Angular2

Web Analytics

Google Analytics



Yunhao Shen

2020.

**Thank you for
Audience**

Contact Information

xiaohao9006@gmail.com

18624 NE 57TH WY / Redmond / 98052 | United States