User Experience Design

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The road to a user-focused DriveWorks configurator

Overview

High level process for anyone with a new or existing DriveWorks implementation.

What is UX/UI Design and why should you care?

The importance of Accessibility

The Design Process Roadmap

Tools of the trade



What is UX Design?

Designing from the perspective of the user

- User journey to solve a problem, not just the interface
- Create products that provide meaningful and relevant experiences
- Integrate branding, design, usability, accessibility, and function



"UX designers help make technology easier to understand and more enjoyable to use"

Google UX Team



What is UX Design?

Holistic design of the experience from cradle to grave

Analogous to an engineer designing a car

- What size, what region, what price, what features, etc
- How does it make the driver/passenger feel



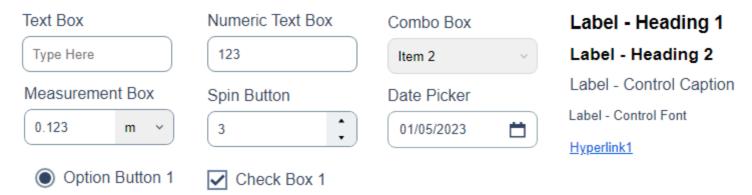
What is UI Design?

Specific design of controls and layout

UI Design is the process of making interfaces with a focus on looks or style.

In DriveWorks this is the look, layout, and functionality of the form controls

Analogous to an engineer designing a door handle, steering wheel, etc





Ease of use is the best way to retain users

User Adoption

User acceptance is the #1 reason for DriveWorks implementations to encounter serious roll-out difficulties, if not outright fail.



Failing to plan is planning to fail

Planning can save time and effort

Any planning work - no matter how crude - will make future execution efforts smoother.



Intuition is the best training

Less Training and Support

A good UX can mean that you don't have to train on how to use it: it should be intuitive

Less Rework or rejections

Inform and guide users to make the right choices



Attractive interfaces entice, and good experiences retain

Drive More Sales

Modern interfaces are attractive, and can be a great selling point

Users are more likely to continue to use interfaces that are easy, and they can trust to get the job done

Rebuild trust and re-engage frustrated customers with a new, intuitive design



Recap

User Adoption

Planning can save time and effort

Less Training

Less Support

Drive More Sales



Ensure everyone can use your product, regardless of their abilities.

UX design is all about making your product easy to use, and so that includes making sure you are not excluding your users.





Everyone benefits from accessibility.

്ര് Curb cuts

A Large print

Color contrast





"When UX doesn't consider ALL users, shouldn't it be known as "SOME User Experience" or... SUX?"

- Billy Gregory, Senior Accessibility Engineer, The Paciello Group



Readability and simplicity are key

- Use large, easy to read fonts
- Use high contrast colors





Don't rely on color alone to denote meaning

First Name	John	First Name	John
Last Name	Doe	Last Name	Doe
Email	john@email	Email	john@email
Password	* * * *	Password	* * * *
	Submit		Submit
	NORMAL	COLOR BLIND (DEUTERANOPIA)	

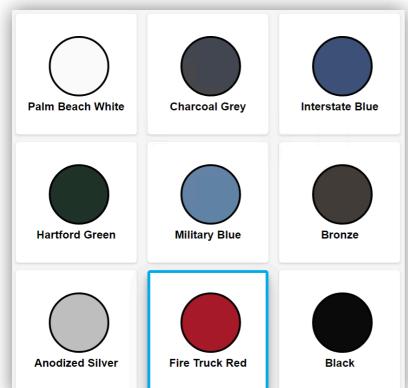


Don't rely on color alone to denote meaning

First Name	John	First Name	John
Last Name	Doe	Last Name	Doe
Email	john@email	Email	john@email
Password	* * * * Submit	Password	enter vaild email address * * * * Submit
	NORMAL	COLOR BI	LIND (DEUTERANOPIA)



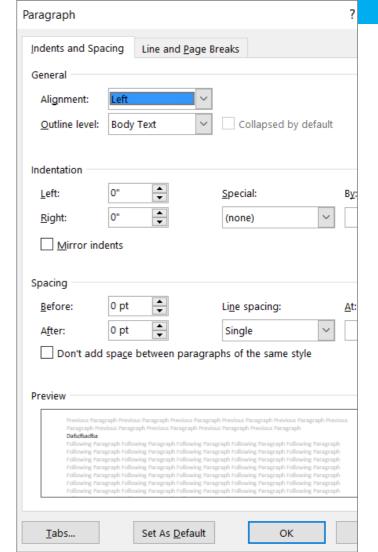
Don't rely on color alone to denote meaning





Layout

- Ensure adequeate spacing between elements
- Group like items together
- Spread controls out over multiple pages or tabs
- Every element has a purpose





The Design Process



Design Process Roadmap

- 1. Identify
- 2. Research
- 3. Plan
- 4. Conceptual Design
- 5. Wireframe
- 6. Prototype
- 7. Implement
- C Feedback loop





1. Identify

Goals, Priorities, Audience, Resources



1.1 Identify Goals

Aimless Effort without goals may be waisted

Answer the why: What are you trying to accomplish?

- Reduce user input errors
- Reduce training time
- Reduce manual work
- Increase sales
- Retain/increase users

Quantify and qualify your goals



Priorities

Priorities dictate focus

- Of your goals, which are the most important?
- Are there known issues that need to be addressed first?
- Is this more important then what you are currently working on?



Audience

Define who your audience is, and what you plan on improving for them

- General Public
- Sales Team
- Internal Designers
- Administrators
- Anonymous users













Resources

No resources, no progress

- Who is going to be working on this project?
 - Do they have the skills and time to do so?
- Other departments
 - Marketing
 - IT
 - Manufacturing
 - Sales



2. Research

Users, Competitors, Alternatives



Users

User Personas document crucial info

Sales



- **TPM**
- □ Desktop
- English
- **USD**

Role

- · Generate new sales
- Continue existing sales
- Maintain customer relationships

Motivation

• Win more sales

Challenges

 Getting quotes to customers efficiently and timely manner

Previous Solution

• Filling in info into an Excel sheet

Solution Goals

 More automation in getting quotes to customers

Other

Other



Users

Why should they use your configurator?

- "It is an improvement over their existing solution because..."
- "This will save them time/effort/money because..."



Competitors / Alternatives

What's the other guy up to?

- Research the competitors and compare their sites
- What are the existing solutions?



3. Plan

Timeline, budget, resource allocation



Planning

Failing to plan is planning to fail

- Incremental changes, or a complete redesign?
 - Separate project for the UI?
- Who will be working on what
 - Other departments
 - Marketing, graphic design, IT
 - Outsourcing
- Timeline, budget, resource allocation

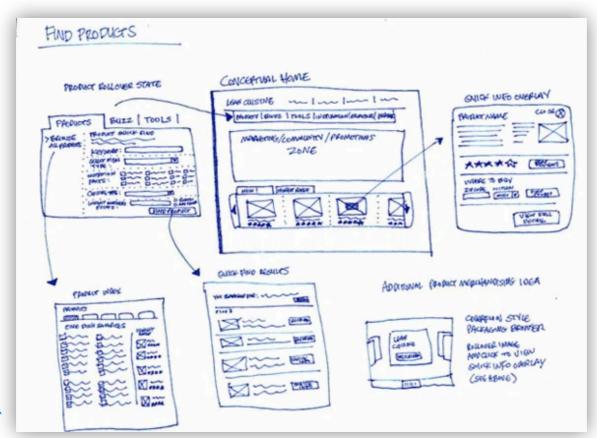


4. Conceptual Design

The Big Picture



Pen and Paper



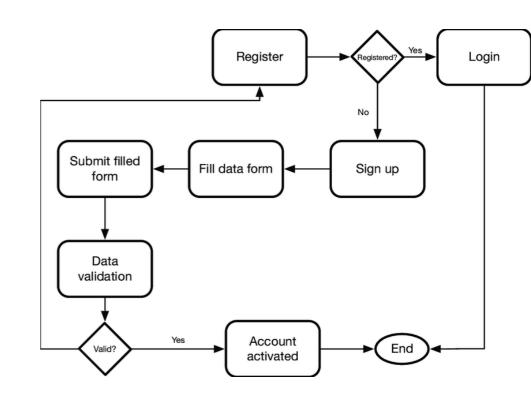


Flow Diagrams

Hollistic map of the user experience

Pen and paper, LucidChart, PowerPoint, whatever you are comfortable with

- Map the flow of the user through the implementation
- States and transitions similar to specification flow
- Collect feedback from stakeholders
- ITERATE ITERATE ITERATE





Flow Diagram Software

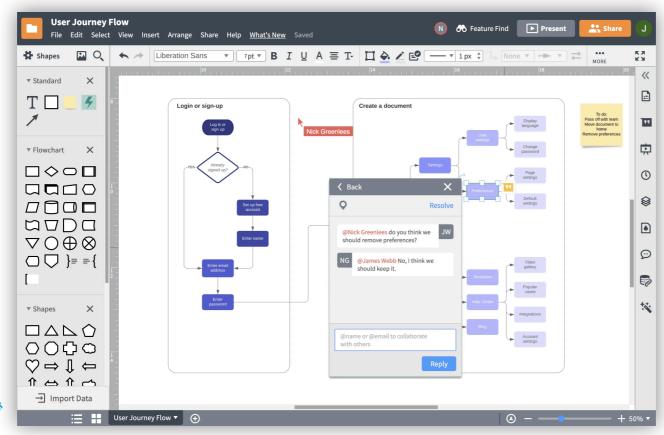






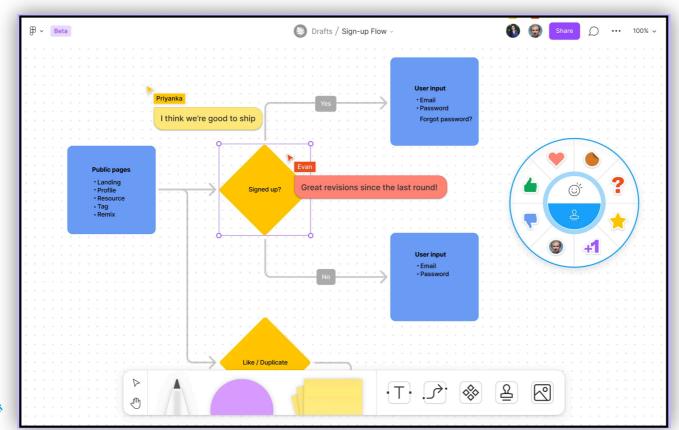


Flow Diagram - LucidChart





Flow Diagram - FigJam





5. Wireframe



Title

Egestas elit dui scelerisque ut eu purus aliquam vitae habitasse.

Senior Designer

Button Text

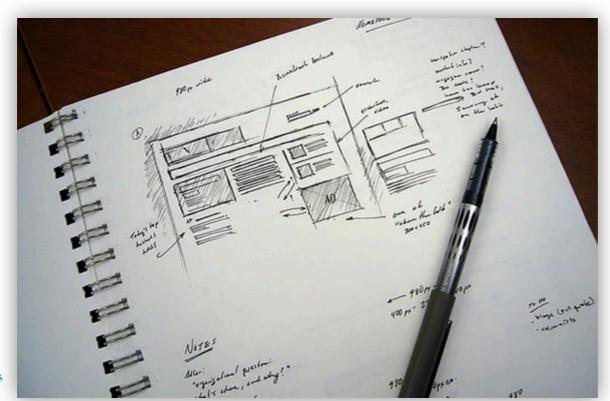
Button Text

Wireframe

Low fidelity mockup of layout and groupings

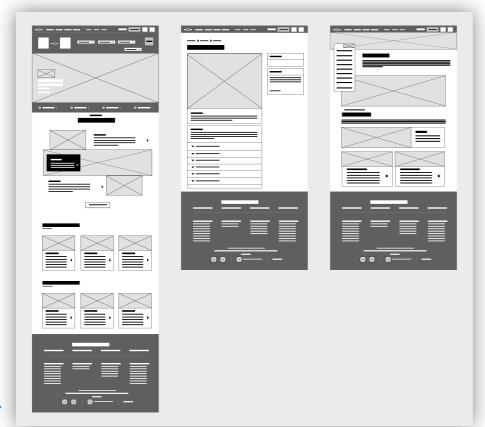
- 1. Overall layout
- 2. Distinct pages/forms
- 3. Groupings

Wireframe Draft



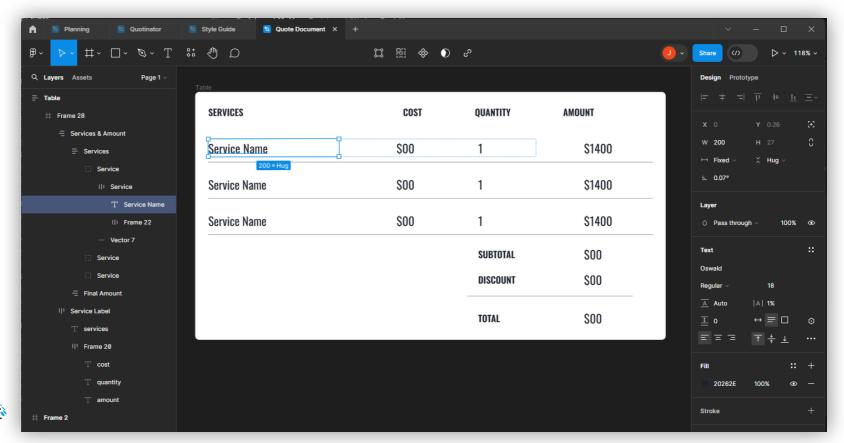


Wireframe - Figma





Figma





6. Prototype



Prototype

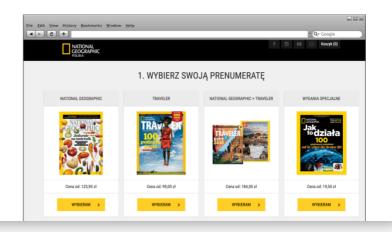
WIREFRAME

Structure + Functions + Content

40×60 Wybierz swoją prenumeratę NG + TR TR WS NG NATIONAL GEOGRAPHIC NATIONAL GEOGRAPHIC NATIONAL GEOGRAPHIC okładka okładka okładka okładka cena od 129.00zł cena od 129.00zł cena od 129.00zł cena od 99,00zł

MOCKUP

Style + Colours + Right Content





7. Implement



8. Feedback loop



Design Process Recap

- 1. Identify Goals, Priorities, Audience, Resources
- 2. Research Users, Competitors, Alternatives
- 3. Plan Project, Timeline, Resources
- 4. Conceptual Design Brainstorm, Sketch, Ideate
- 5. Wireframe Quick low fidelity mockups
- 6. Prototype High fidelity mockups
- 7. Implement Build in DriveWorks
- 8. Feedback loop Continuously improve





Thank you!

Joseph C. Caswell

