

User Experience and Prototyping

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User Experience Design

- User-centered
- Create meaningful and relevant experiences for users
- Start with an idea, research, development, testing
- How will people interact with your product?
- More than just content and design
- Navigation, content organization, user input, responses, design flow
- Incorporates concepts of innovation, design thinking and product management
- Includes how users acquire the product, marketing, branding, usability and functionality



User Experience Concepts

- User interface
- Interaction design
- Content Strategy
- Information architecture
- Visual design
- Functionality
- Usability
- Typography
- Prototyping



- Test idea before building it
- Paper, wireframe or prototyping tool
- Often start with a paper prototype, then move to a tool
- There are a range of tools, depending on your expertise and desired outcome



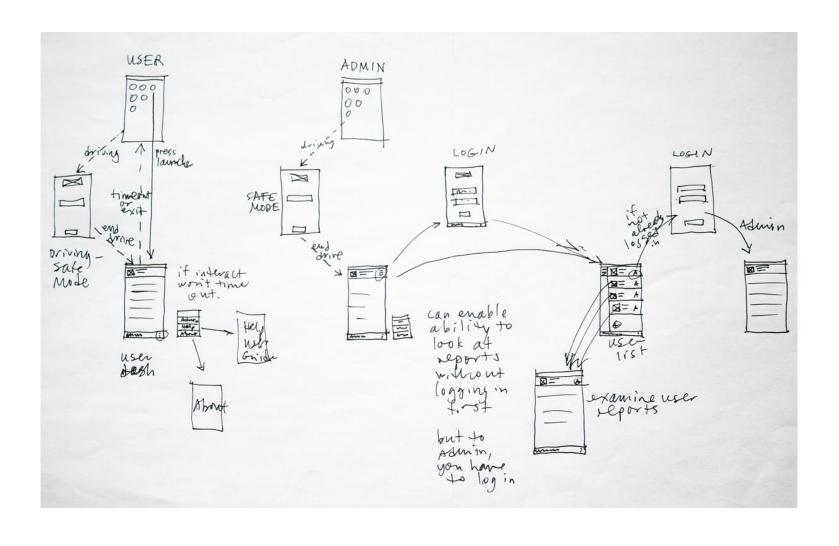
- Faster, start building early in the process
- Cheaper
- Get users interacting with your product sooner
- Work on design and interactivity issues
- Get a sense of the visual flow of the application
- Begin comprehending usability issues



- Use a flow chart to map out the user experience
- Define navigation items
- How items will relate?
- What basic interactions need to be created?
- High level view of design
- Sketch backend and frontend, admin vs user



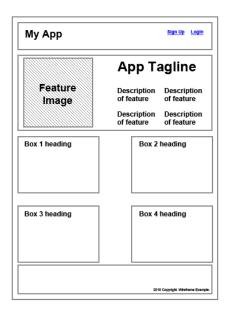
Flow Chart Sketch





Wireframe

- A wireframe is like a blueprint. It is a low fidelity representation of what you will create.
- Uses basic lines and shapes to outline information sections, layout and core visualization and interactions
- Designers used to (and some still do) make Photoshop wireframes for coders to implement
- Tools can help you make an interactive or clickable wireframe





Paper Prototype

- Hand drawn sketches
- Cut and paste to create a mock up of the desired experience.
- Use post-its, glue, colored paper, etc.
- Use one piece of paper for each page or screen



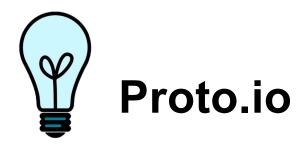


- Mid to high fidelity representation of the interface
- Simulate the interaction; mimics full product experience
- Looks like final product, without all the functionality built in
- Design, color, graphics
- Useful for user testing



Prototyping Software

- Proto.io
- Sketch
- InvisionApp
- Adobe XD
- Figma



- Free trial, has a free option at end of trial with limited projects
- Web-based
- Extensive library for learning tutorials
- Symbols and shapes to implement in prototype
- Sample and Blank projects
- Review tutorials to learn how to use
- Select type of project: phone, tablet or website
- Select device size

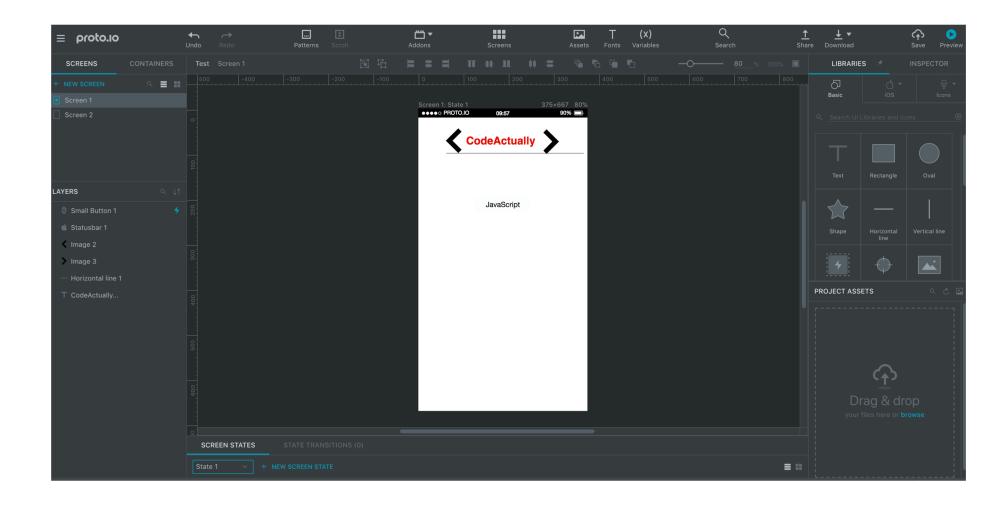


Editor Interface

- Canvas
- Libraries of shapes, icons and placeholders
- Drag and drop, resize, change properties
- Upload your own assets
- Layer-based can reorder, lock and group
- Drag connectors from UI elements to screens
- Containers for scrollable blocks of content or reusable content
- Create animations with timelines
- Patterns and grids
- Can password protect and invite specific users
- Export as HTML



Proto.io Interface

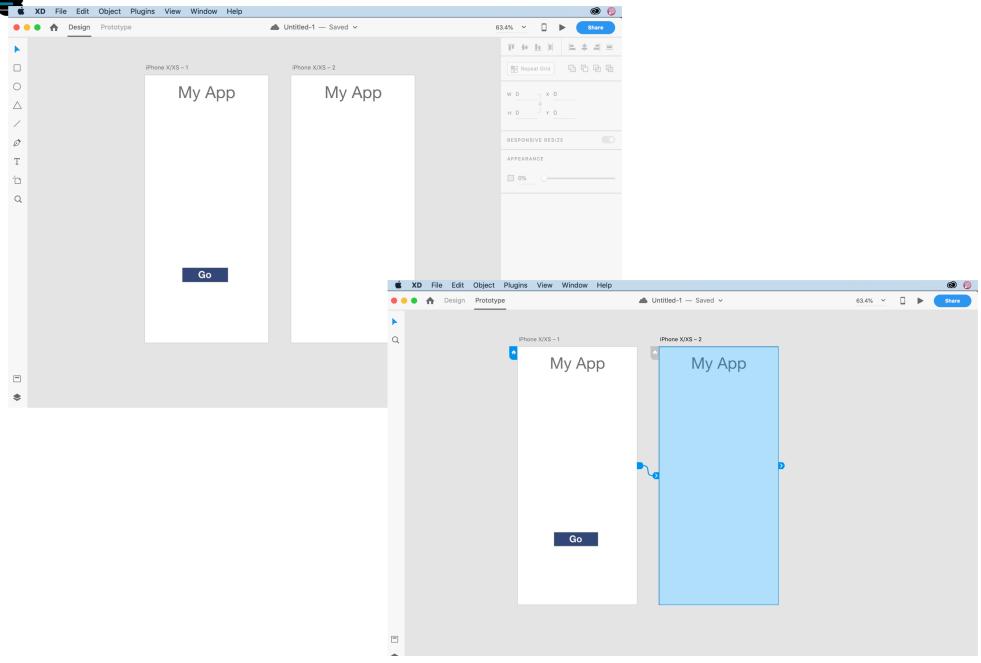


Adobe XD

- Part of Adobe Creative Cloud
- Free starter plan
- Students have access on campus
- Creative Cloud student rates start at \$19.99/month
- Design and Prototype
- Set up multiple artboards and triggers, actions and animations
- Similar features to other Adobe products, so easy to learn
- Design screens, then Prototype interactions
- Can Share for Review and Export as Video



Adobe XD Interface

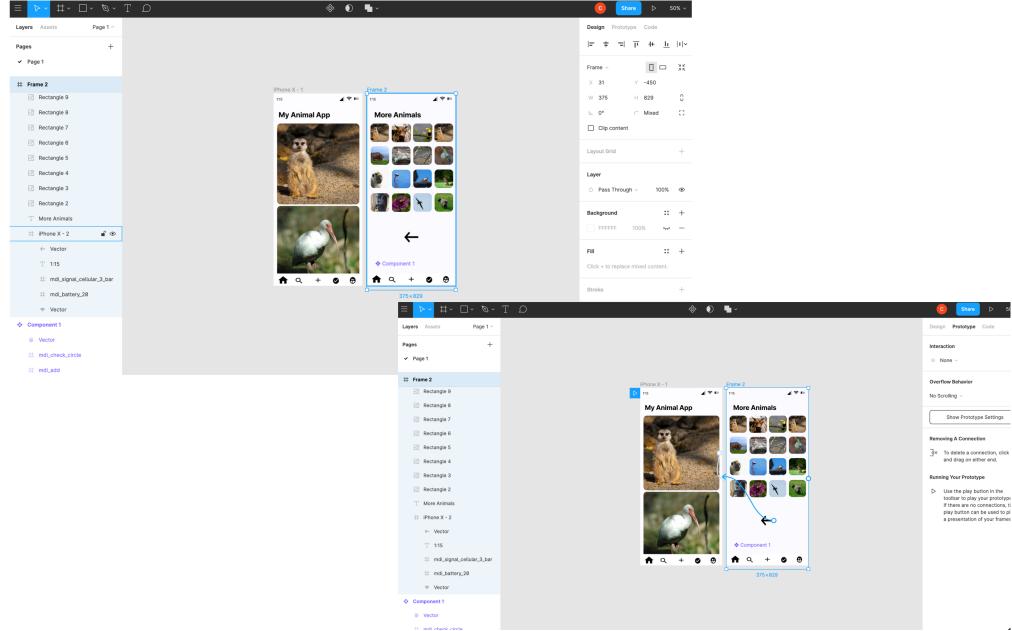




- Gaining in popularity
 - Free student pricing option; need to apply https://www.figma.com/education/
- Web-based
- Allows for collaboration with your team on a project



Figma Interface





Conclusion

- In practice, you will use appropriate prototyping tool depending on your organization, client and needs
- Be prepared to learn new tools
- New tools will continue to emerge in this space
- Use whatever tool you feel comfortable for our Prototype assignment
- More important to understand the importance of representing your idea with a high fidelity prototype and getting feedback and input before investing in development.
- Each tool provides tutorials:
 - https://support.proto.io/
 - https://helpx.adobe.com/xd/tutorials.html
 - https://help.figma.com/article/116-getting-started