Comp 424 - Client-side Web Design

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Design mockups

A brief overview of options for creating mockups and prototypes.

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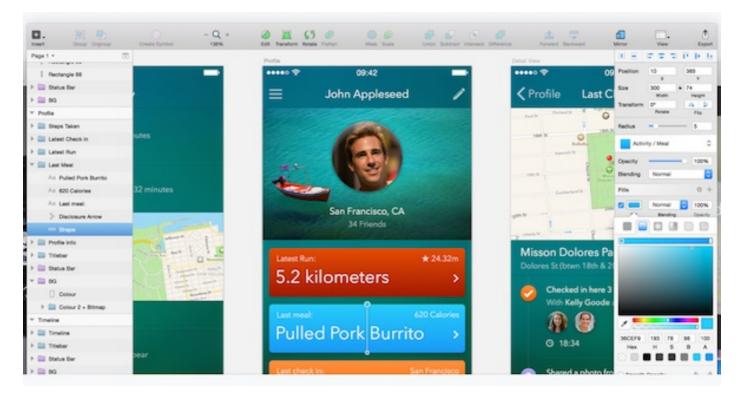
Application appearance

- prototype or mockup helps us plan and visualise an application's appearance and interface
 - · could be high fidelity or low fidelity
 - · choice often reflects state of the application and intended purpose of the mockup or prototype
 - eg: sales/funding demo vs design for development
 - · perceptual difference between mockup and prototype
 - static mockups do not specify behaviour
 - rely upon additional interaction and behavioural specifications
 - prototype designed to demonstrate an application's intended behaviour
 - · prototype perceived as an interactive piece of software in its own right
 - not considered fully functional, finished product
 - may only represent small components of the application
 - intended to show sample scenarios, interactions...

Hi-Fi mockups

- · intended to act as a realistic approximation of an application's design
- allows us to represent and visualise the appearance of the user interface
 - · often used for demonstration purposes, such as attracting funding, sales contracts...
- allows us to test colour schemes, design layouts, patterns...
- hi-fi mockups normally designed as static images with no actual interaction
- Adobe's Photoshop, Illustrator, In-Design...often popular tools for creating such mockups
 - o offer detailed, relatively quick mockups to help visualise an application
- HTML, CSS...also popular options for creating quick, hi-fi mockups
 - can be used for a variety of application mockups

Image - Hi-Fi mockup



Source - Sketch (http://bohemiancoding.com/sketch/)

Hi-Fi prototypes

- prototype intended to act as an interactive application
 - not intended as fully functional application
 - a concise working simulation
- prototype intended to create a rapid, working example of functional components of an app
- code often sufficient to simulate and replicate results for a given action and scenario
 - often will not include a database or persistent data storage
 - may simply simulate and demonstrate action of saving the data
- important to create a prototype of the interface and user interaction
 - not backend logic and implementation
- prototypes normally limited in their breadth and depth of functionality
 - should not be shallow in its implementation
 - · demonstrate and evaluate an app's specified details in depth
 - shows careful, well-planned concept and design for each aspect of your app
- NB: high fidelity prototypes can be time consuming to produce correctly

Hi-Fi prototype

Framer

- many examples available at the Framer website
 - OK Google (http://framerjs.com/examples/preview/#voice-onboarding.framer)
 - Android Lollipop (http://share.framerjs.com/5fxd71on0mz8/)
 - Carousel (http://framerjs.com/examples/preview/#carousel-onboarding.framer)
 - best demo at the moment...

Low-Fi mockups and prototypes

- low-fi mockups often seen as a rough sketch or outline
- often referred to simply as wireframes
- their simplicity can offer an inherent utility and speed of creation
- not trying to recreate the exact look and feel of an app
- often more interested in layout of visual components and elements
 - offers a quick reference point for further development
- · easily sketched on paper, or use formal tools such as
 - · Adobe's Photoshop, Illustrator...
 - The Gimp an interesting open source alternative
 - could even use a simple tool like Google Drawings
 - many mobile drawing apps as well
- inherent benefit of low-fi mockups is quick creation
 - quick to modify and update
- low-fi prototypes often seen as a series of linked low-fi mockups
 - · simple interaction leads to mockup sketches
 - · again, not aiming for pixel accurate representations of app

Image - Low-Fi mockup



Source - Flinto (https://www.flinto.com/)

Rapid prototyping

- provides quick examples of an application's design
 - helps promote and encourage development and iterative design
- iterative design helps encourage feedback early in the design process
 - o continues throughout the design process as well
- we might consider the following as we develop our prototypes
 - · consider what needs to be prototyped early and often
 - how much do we actually need to prototype at each stage?
 - consider the most common design elements and interaction
 - checking how something will work and not prototyping a full application

- · work out how different places in the app are connected
 - connection between interactions, places...
 - consider the patterns that exist within the app
 - example pathways for a user through the app to achieve a given goal
- · choose your iterations for prototypes
 - helps us avoid the temptation to prototype the whole application at once
- · different fidelity for different iterative stages
 - low-fi mockups for initial design layout and elements
 - low-fi prototypes for many initial interactions
 - hi-fi prototypes as we approach the final product

A few example tools for mockups and prototypes

- HTML, CSS, JavaScript, Bootstrap (http://getbootstrap.com/)...
- Adobe Photoshop (http://goo.gl/GslYY0), Illustrator (http://goo.gl/9K8Kfw)
- Sketch (http://bohemiancoding.com/sketch/)
- Proto.io (https://proto.io/)
- Flinto (https://www.flinto.com/)
- framer (http://framerjs.com/)
- mirror.js (http://jimulabs.com/mirrorjs-preview/)
 - useful for Android...
- Google Drawings (http://goo.gl/qPRCfG)
- XCode Interface Builder (https://developer.apple.com/xcode/interface-builder/)
- Apple's Keynote (http://keynotopia.com/guides/)
 - useful for iOS