WEB APP DEVELOPMENT
Bootstrap + Angular
Website

Static pages:
Every user sees the same information each time

Web App

Dynamic pages:
Every user sees the different information depending on their input

User input
Dynamic output
Web app
WHY FRAMEWORKS?

Start with boilerplate code and working examples

Easy to customize, reuse, and take apart

Visual design is already well-coordinated

Often a lot of documentation, extensions, and projects to browse
WHAT’S IN A FRAMEWORK?

A nifty file structure
Boilerplate code
Browser & device support (CSS resets, media queries)
Grid system
Themed elements (styling, animations, colors, assets)
WHAT’S IN A FRAMEWORK?

BOILERPLATE CODE

● Modular
● Best practices
● Styling (CSS)
● Common elements
● Animations
● Interaction design

Image from Wolrdline’s Github
WHAT'S IN A FRAMEWORK?

BROWSER & DEVICE SUPPORT

- CSS reset
- JS shims
- Mobile-first
- Responsive
- Hybrid approach
WHAT'S IN A FRAMEWORK?
GRID SYSTEMS

- Visual cues
- Content chunking
- Responsive
- Scalable/Flexible
- Many choices
WHAT'S IN A FRAMEWORK?

THEMED ELEMENTS

- Styling
- Color scheme
- Buttons & labels
- Animations
- Assets

Bootstrap

Ionic

Image from Ionic
The big picture
Questions?
WHAT’S IN A FRAMEWORK?
A NIFTY FILE STRUCTURE

● Pre-compiled

● Organized

● Contextual

● Consistent

├── api/
  └── api.php

├── scss/
  └── www/
    └── index.html
    ├── css/
    ├── img/
    └── js/

└── lib/
    ├── ionic/
    └── partials/
        └── tabs.html
IONIC: PROS & CONS

Good for:

● Hybrid apps
● AngularJS front-end
● Designs similar to iOS 7

Bad for:

● Desktop-size websites/apps
● Ember/Backbone front-end
● Windows Phone, FirefoxOS

Examples: ionicframework.com/docs/components
1. **Get Ionic**
   a. Download & unzip the latest release from code.ionicframework.com
   b. Install it, follow instructions at ionicframework.com/getting-started

2. **Browse boilerplate code**
   2.2. Click “Share” button, then “Export .zip”

3. **Merge boilerplate code into your Ionic project**
   3.1. Unzip Codepen export, copy contents into your project folder (myApp/www/)
   3.2. Edit index.html, remove all instances of “//code.ionicframework.com/nightly/”
   3.3. Open index.html in a browser
WALKTHROUGH
IONIC: CONCEPTUAL OVERVIEW

docs.angularjs.org/guide/concepts
WALKTHROUGH

IONIC: CODE WALKTHROUGH

https://github.com/anelson35/ng-comments

https://gtjourney.gatech.edu/live/gt-devhub/about