MOBILE WEB APP DEVELOPMENT

Angular + Ionic + PHP
**Website**

**Static pages:**
Every user sees the same information each time.

**Web App**

**Dynamic pages:**
Every user sees different information depending on their input.
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?
A NIFTY FILE STRUCTURE

- Pre-compiled
- Organized
- Contextual
- Consistent
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

Image from mobilecaddy.net
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
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
github.gatech.edu/anelson35/ng-comments

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