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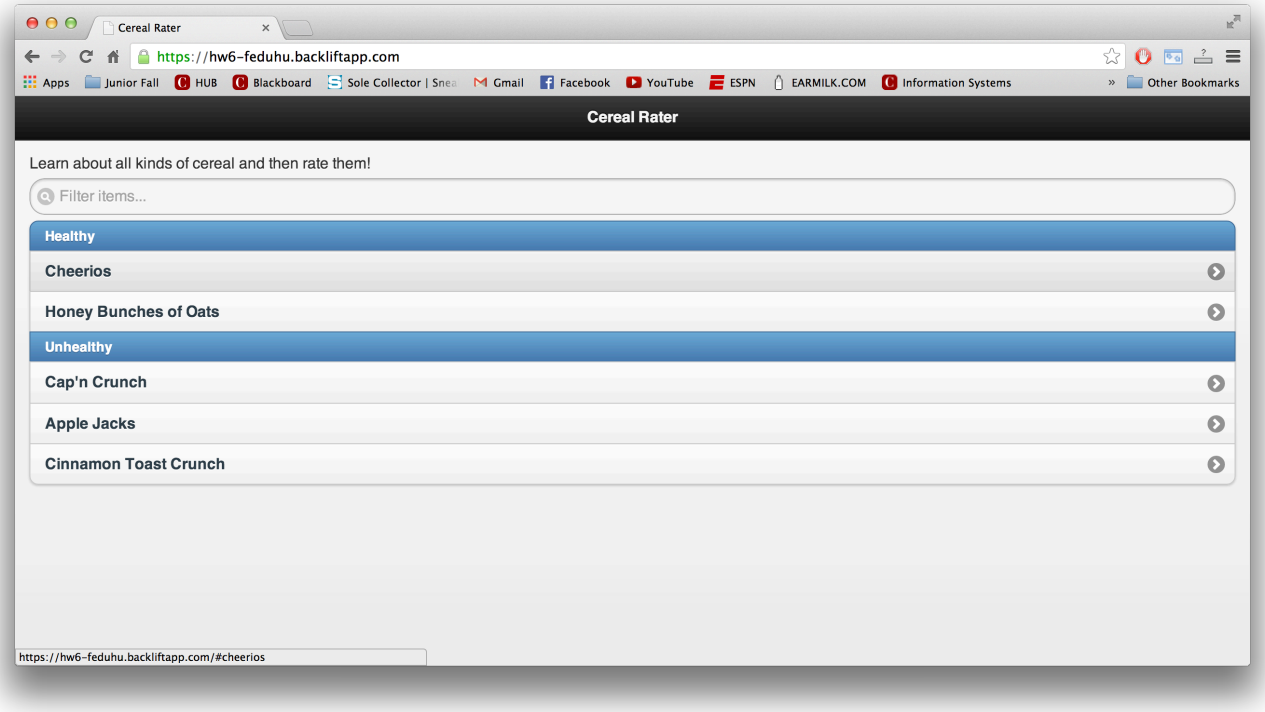
Hw 6 – jQuery Mobile

Progressive Enhancement

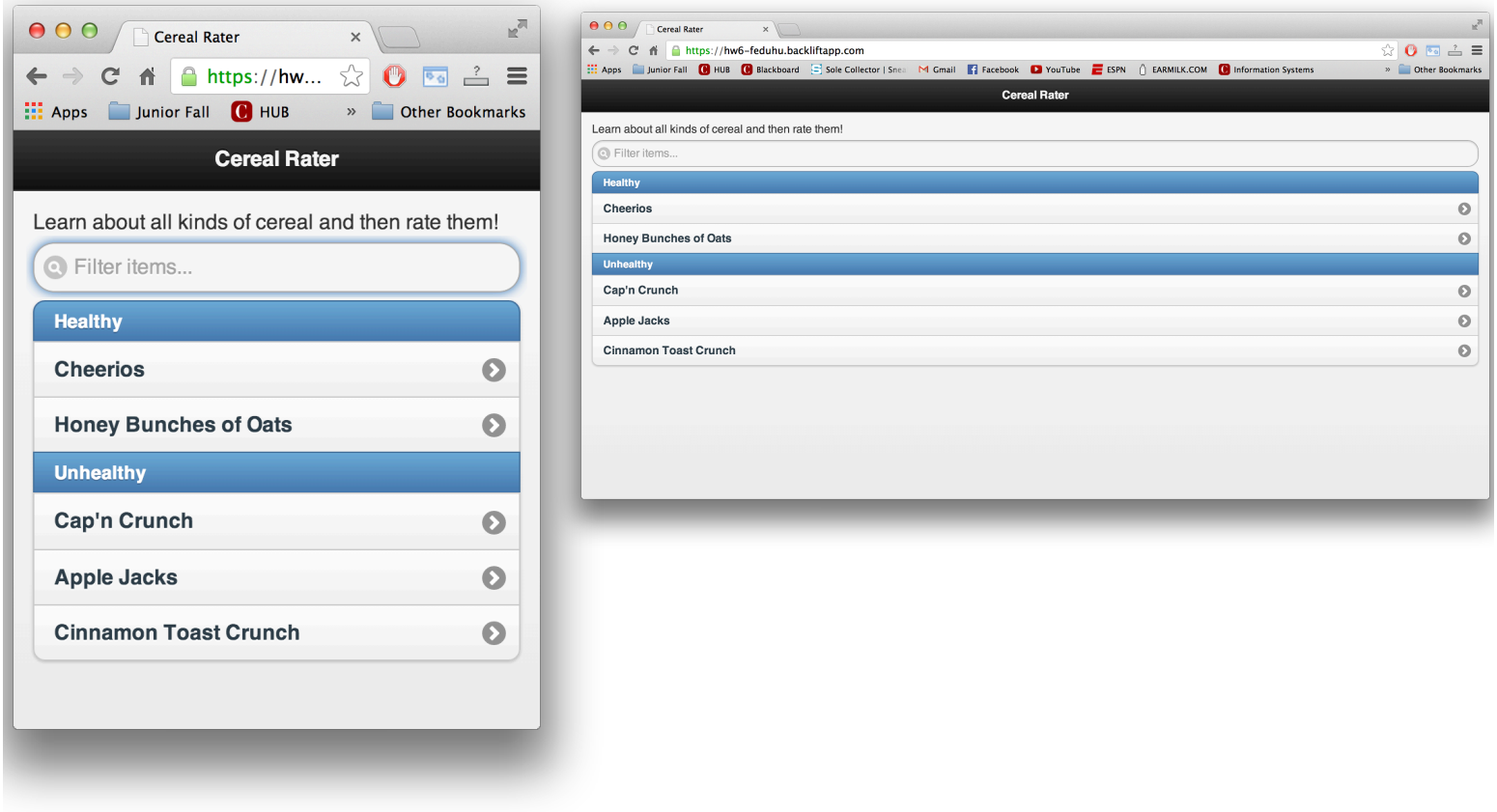
Progressive enhancement is a strategy used for website development that takes into account overall accessibility, content availability, and mobile browser capabilities. This was an upgrade from the graceful degradation strategy that used to be used for web development, but did not quite fit.



My app takes progressive enhancement into account because it follows semantic html, was created with a mobile first mentality and it is responsive to different browser windows.

Responsive Design

Responsive design involves building websites that are flexible to different screen resolutions and browser sizes. This means that the style of the site will adjust itself so it fits cleanly within a window.



My application uses a responsive design because it uses jQuery Mobile's flexible layout features to adjust to different resolution sizes. The screenshots above show how the application layout adjusts to two different screen sizes.

Semantic HTML

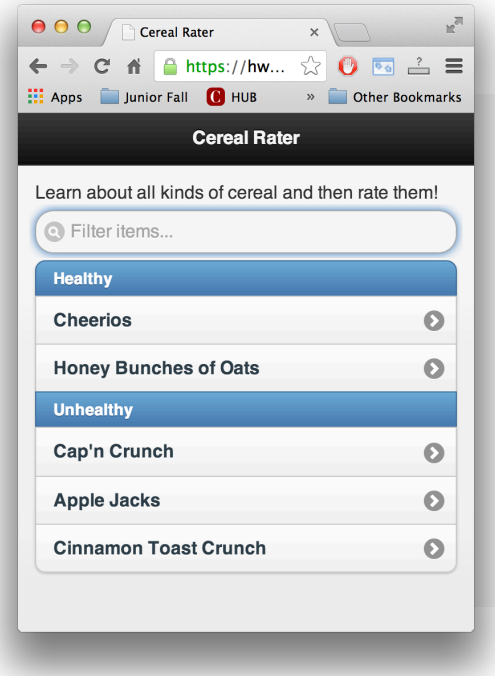
Semantic HTML is the use of html tags to reinforce the meaning of information on webpages. This makes the html code easier to understand when viewed by other people. Text is wrapped in elements that reflect the content and other HTML elements.

```
    <!--  ----------------- INTRO PAGE ----------------- -->
    <div data-role="page" id="intro">

      <div data-role="header">
        <h1>Cereal Rater</h1>
      </div><!-- /header -->

      <div data-role="content">
        <p>Learn about all kinds of cereal and then rate them!</p>
        <ul data-role="listview" data-inset="true" data-filter="true">
          <li data-role="list-divider" role="heading" class="ui-li ui-li-divider ui-bar-b">Healthy</li>
          <li><a href="#cheerios" data-transition="flow">Cheerios</a></li>
          <li><a href="honeybunches.html" data-transition="flow">Honey Bunches of Oats</a></li>
          <li data-role="list-divider" role="heading" class="ui-li ui-li-divider ui-bar-b">Unhealthy</li>
          <li><a href="#capncrunch" data-transition="flow">Cap'n Crunch</a></li>
          <li><a href="applejacks.html" data-transition="flow">Apple Jacks</a></li>
          <li><a href="ctcrunch.html" data-transition="flow">Cinnamon Toast Crunch</a></li>
        </ul>
      </div><!-- /content -->

    </div><!-- /page -->

    <!--  ----------------- Cheerios ----------------- -->
    <div data-role="page" id="cheerios">
      <div data-role="header">
        <h1>Cheerios</h1>
      </div><!-- /header -->
      <div data-role="content">
          <div data-role="collapsible">
              <h3>About</h3>
              <p>Cheerios is a brand of breakfast cereal manufactured by General Mills introduced on May 1
amed CheeriOats. The name was changed to Cheerios in 1945 due to a trade name dispute with Quaker Oats. The
hape of the cereal pieces.</p>
          </div>
        <div data-role="content">
          <label for="slider-step">Rating Meter:</label>
```

My app follows a semantic HTML markup because all of my HTML elements are being used for their semantic purpose. List elements are wrapped in <li> tags, and header tags are not used to change their size, but for the purpose of displaying different headings.

Mobile First

Mobile First is a strategy that is used by web developers to design their websites for the mobile device before the regular desktop/laptop screen sizes. Some reasons for following a mobile first approach is that it helps developers identify the essentials of their website before building the full one for desktops and developers can guarantee that their website will be accessible by the large audience that uses mobile devices.




```
<!DOCTYPE html>
<html>
  <head>

    <title>Hw 6 - Responsive web app</title>
    <!-- Stylesheets -->
    <link rel="stylesheet" type="text/css" href="style.css">
    <link rel="stylesheet" href="jquery.mobile-1.2.1.min.css" />
    <!--Javascript -->
    <script src="jquery-1.8.3.min.js"></script>
    <script src="jquery.mobile-1.2.1.min.js"></script>
    <script src="main.js"></script>

    <meta name="viewport" content="width=device-width, initial-scale=
  </head>
```

My application follows a mobile first strategy as it was developed using jQuery mobile and it is responsive. JQuery mobile creates several components that are mobile device friendly and it makes it easy to make the application responsive.

Summary of Application

My application is a cereal rater. It has a handful of different kinds of cereal listed that a user can visit to learn more information about and rate them based on how much they like the cereal.

Six jQuery Mobile Components:

1. Basic List view – Displays a list of cereal
2. List Divider – Organizes the list into different groups with a label
3. Collapsible Content Block – Stores the information about the different kinds of cereal
4. Slider – Allows user to rate the cereal
5. Button – Submits the value and displays string value of rating using javascript
6. Filter – Filters the items in the list view