WEB422 - Web Programming for Apps and Services

Week 2 – Lecture Recap:
Bootstrap UI Implementation

Agenda

► Bootstrap Introduction

► Rendering Data

Bootstrap Introduction

- ► How to code with Bootstrap?
  - ▪ BS site > version > find > copy/paste code > update/customize
- ► Including Bootstrap 5
  - ▪ <link> with CDN or download files or SASS; npm to install
  - ▪ no longer require jQuery as a dependency
- ► Grid System
  - ▪ Optional: # of columns or class infix
  - ▪ Additional Options: Mix and Match, Row Columns, Nesting
- ► Navigation Bar
  - ▪ <nav> element with classes of navbar, navbar-expand-lg, navbar-light, bg-light
  - ▪ Navigation Items:
    - ► navbar-brand
    - ► navbar-toggler: the "Hamburger" button; collapse: for the "Hamburger" button
    - ► navbar-nav: in collapse, the attr of <ul>; nav-item: links/menu items, including dropdown
    - ► form: for search box or login

Bootstrap Introduction

► Dropdowns
  - don't confuse it with html dropdown list <select>
  - button to show a dropdown menu with links
  - can be used to create level-2 menu for navbar <nav>

► Buttons
  - classes: "btn", "btn-{color}" - color: primary, success, danger, …

► Tables
  - classes to <table>: "table-striped", "table-hover", "table-bordered", …
  - classes to <table>, <tr>, <td>: "table-{color}", e.g. "table-primary",

► Modal Windows
  - Modal title, body, and buttons
  - Triggered by using html and JavaScript

Rendering Data

- ► **Dependencies:** BS css and js libraries
- ► **The Data:** Posts/Comments from the dev/test API: {JSON} Placeholder.
  1. full list of Posts: https://jsonplaceholder.typicode.com/posts
  2. Posts by userId: https://jsonplaceholder.typicode.com/posts?userId=3
  3. Comments for a given post: https://jsonplaceholder.typicode.com/comments?postId=1
- ► UI Elements
  - ▪ Navbar, Main Container & Data Table, Modal Window
- ► The JavaScript
  - ▪ JS entry point: "Dom is ready" vs page's loaded
  - ▪ Fetching and Rendering the Data
    - ► Generating HTML, Updating the DOM, Click Events
  - ▪ Filtering the Table
  - ▪ Populating / Showing the Modal Window
    - ► Getting the Data on "Click", Generating the List, Populating the Modal

Assignment 1

► Due on Friday (23:59)

► Note:

- All functions in modules/moviesDB.js can be used as Promise functions, and you're not supposed to change anything in the moviesDB.js file.

- query parameters "page" and "perPage" are mandatory. Without them the GetAll route will give error

The End