Monday

Java

* High Level (WORA, JDK/JRE/JVM, OOP, etc)
* Scopes
* OOP
  + Interfaces
  + Abstract Classes
* Threads
* Logging (Log Levels, Config / log4j2.xml)
* JUnit
* Streams API
* Design Patterns (Singleton, Factory, DAO)
* Maven Lifecycles
* JDBC

SQL

* General Overview
  + SQL commands
  + WHERE and HAVING
  + ORDER BY and GROUP BY
  + Scalar / Aggregate Functions
  + Joins and Set Operators
  + Indexes
  + Views
* Normalization
* ACID Properties
* Read Phenomena

Monday Exercises / Assignments

* Java / SQL Hackerrank

Tuesday

* HTML / CSS Review (necessary for Angular)
  + Elements and Attributes
  + Selectors and Properties
  + Bootstrap (?) - have a video that I've shared with them.
* **Web Services**
  + Http Recap
  + Servlets
    - ServletContainer, ServletConfig
    - Deployment Descriptor
    - Interface / Class Hierarchy
    - Front Controller
    - HttpSession
  + Front Controller
  + REST / Endpoints
* JavaScript
  + Scopes
  + DOM Manipulation
  + Objects
  + JSON (parsing and stringifying XMLHttpResponses mostly)
  + Asynchronous functions
    - AJAX
    - Fetch API
    - Promises

Tuesday Exercises / Assignments

* API: Pick an existing api and create an interactive webpage (i.e. PokeApp)

Wednesday

**Application Architecture**:

* Back End: Entities, Repo, Service, Controller layers
* Front End: Presentation and Application Layer
* Connecting front and back end

Application Set Up and Config

* Steps and debugging techniques

AWS

* Group research exercise

Wednesday

* Quizzes - Java, SQL, HTML/CSS/JavaScript/Servlets

Thursday

* 1-on-1s

Friday

* P1 Presentation