CS5610 Study Guide

1. React.js
   a. stateful/statless component
   b. ({})
   c. ES6, implicit return, JSON object shortcuts, call backs and anonymous functions
   d. map, filter,
   e. onClick, onChange
   f. properties values and functions, passed to child components
   g. Redux
      i. reducer, actions, dispatcher, default state, no combined reducers
2. Java Web Services (REST)
   a. Syntax of RESTful URLs → maps to a Relational model
      i. One to Many: /A/{a}/B/{b}/C/{c}
      ii. Many to Many: /Movie/123/Actor, /actor/234/movie
      iii. POST, PUT, DELETE, GET
      iv. Query: filter, where clause, range
   b. @GetMapping, @PostMapping, etc., @PathVariable, @RequestBody, @RequestParam
3. JPA
   a. OneToMany, ManyToMany
   b. Inheritance strategies, discriminator field
   c. @Entity, @Id, @GeneratedValue, @OneToMany, @ManyToOne
   d. Repositories, synchronous
4. Angular
   a. Navigation, Path parameters, router-link, router-outlet
   b. Injectable(), services, fetch, .then(), asynchronous calls, not synch, inversion of control, fetch/then()
   c. ngFor, [(ngModel)], (click), ngClass
   d. strongly typed models
5. Node + Express
   a. Syntax of RESTful URLs → maps to a Relational model
      i. POST, PUT, DELETE, GET
      ii. app.get, app.post, app.put, etc…
      iii. req.params, req.body, req.query
   b. All asynchronous
      i. how to use .then() to serialize asynchronous calls
      ii. res.send(), res.json()
6. Mongo + Mongoose
   a.
7. React Native
   a. View, Text, FormInput,