

## House of Cards

- Each topic builds on previous topics
- Objective: Transfer the skills to enable you to design, build, secure and deploy a modern web application + API.



Review the fundamental structure of html5 documents, including templating techniques. Explore the basics of CSS + how to incorporate a CSS framework to simplify and enhance web site styling.



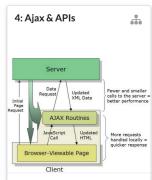
2: CSS Frameworks

leveraging it capabilities to delivers rich UI experience



3: JavaScript Orientation 🙏

Re-introdution to Javascript. Review language structure and usage in the context of JQuery and client side script fragment. Explore google maps API in this context



Learn how to invoke REST services in JQuery using ajax features. Explore github and fouresquare APIs in this context.

8: Models

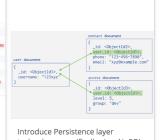




Explore HAPI views in depth, with an examination of the vision plugin Review the DRY principle and the role of layouts. Employ the handlebars templating engine, incorporating partials and other constructs.



applications. Incorporate the hapiauth-cookie plugin into HAPI application to manage sessions. Review session strategies, protected and unprotected routes, cookie passwords, timeouts and other configuration options



technology, specifically via a NoSQI databases. Explore the role of an ODM in this context and review the fundamental modeling techniques.



views within HAPI

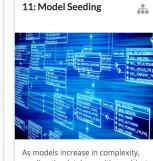
and alerting the user as to the nature of the errors, is essential to a modern web application. Validation components are focused on this, and HAPI has an elegant and useful component called joi to provide a robust and efficient approach to



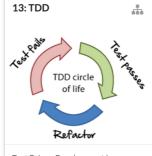
Moving the application from a local development machine to a public servers is called deployment. There are a range of options available. We will focus on heroku and zeit.



Exposing a programmatic interface to a service can facilitate more diverse client. These can include test clients to exercises the application, a mobile application or alternative



seeding the database with an object graph is a useful technique enhancing developer productivity. It facilitates exploratory development + early validation of model



Test Driven Development is a kevstone technique in modern application development. It comprises of a range of techniques. anchored but the XUint range of libraries and tools

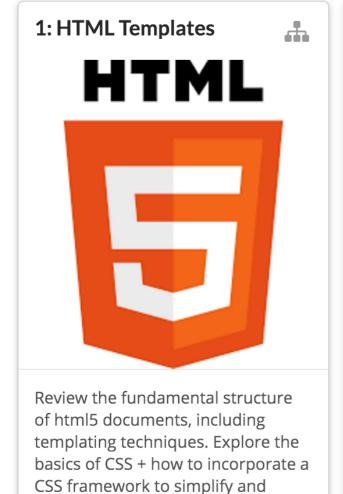


APIs are said to be Restful if the adhere to a set principles encompassing url patterns, payload and general structure.



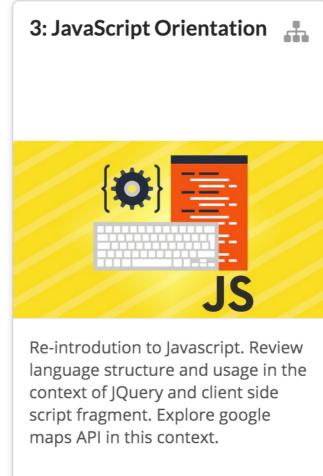
Securing APIs requires different approach from session based strategies, as we may not have browser on the client, Ison Web Tokens is a well established authentication mechanism for APIs.

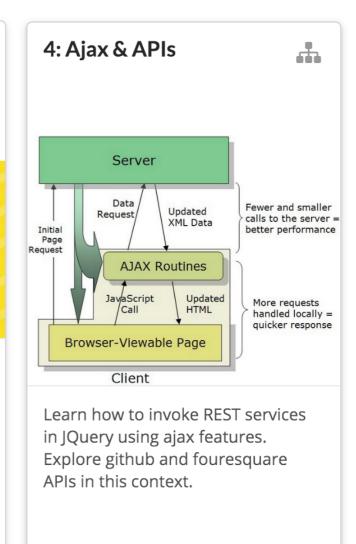




enhance web site styling.







- Revisit Html + Css, focusing on templates + css Frameworks
- Crash course in Javascript Fundamentals
- Learn basics of JQuery
- Build Web Sites that interact with web APIs

- Tools:
  - semantic-ui
  - jquery
  - Chrome + chrome developer tools + JSON View
  - Web Storm

## 5: Hapi Applications





Introduction to node development and the role of the HAPI application framework. Explore the role of routing, connections, handlers and views within HAPI.



Explore HAPI views in depth, with an examination of the vision plugin. Review the DRY principle and the role of layouts. Employ the handlebars templating engine, incorporating partials and other constructs.

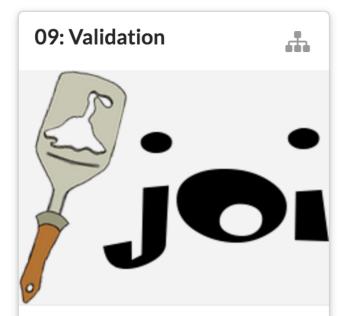


Review the role of Sessions in web applications. Incorporate the hapiauth-cookie plugin into HAPI application to manage sessions. Review session strategies, protected and unprotected routes, cookie passwords, timeouts and other configuration options.





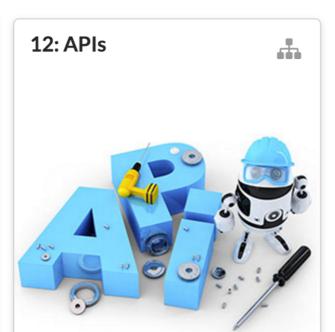
Introduce Persistence layer technology, specifically via a NoSQL databases. Explore the role of an ODM in this context and review the fundamental modeling techniques.



Detecting incorrect or invalid input, and alerting the user as to the nature of the errors, is essential to a modern web application. Validation components are focused on this, and HAPI has an elegant and useful component called joi to provide a robust and efficient approach to this.



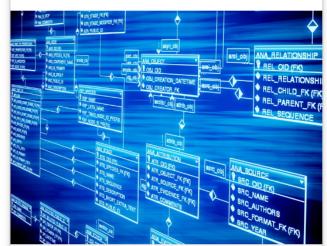
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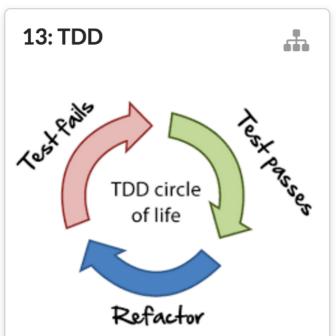
Exposing a programmatic interface to a service can facilitate more diverse client. These can include test clients to exercises the application, a mobile application or alternative front ends.







As models increase in complexity, seeding the database with an object graph is a useful technique, enhancing developer productivity. It facilitates exploratory development + early validation of model decisions.



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applications, and build a simple SPA

using Aurelia