



# Web Development Module Overview

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Timetable + Schedule

Module Overview

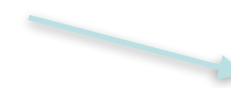
Assignment Sequencing

THURSDAY


FRIDAY

10:45

Webinar



Web Development  
*Webinar*  
12:15-2:00



12:15

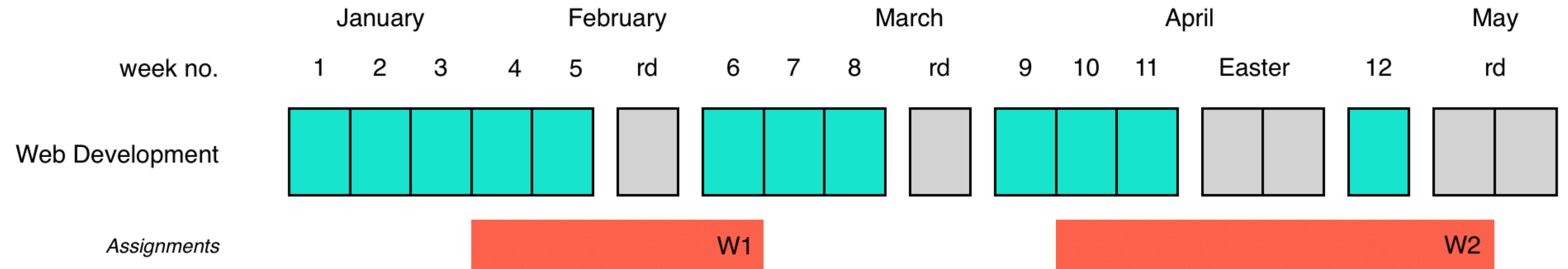
Lab support  
throughout  
the week

13:45

15:15


# Assessment Schedule

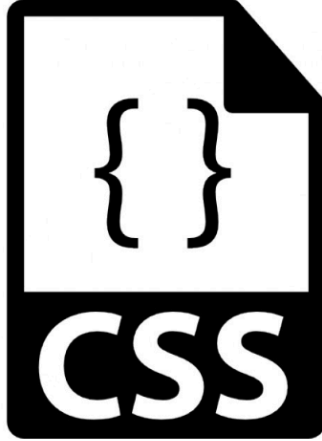
Semester 1		
January	Week	
	1	17
	2	24
	3	31
February	4	7
	5	14
<i>reading-week</i>		21
	6	28
March	7	7
	8	14
<i>reading-week</i>		21
	9	28
April	10	4
	11	11
<i>Easter-break</i>		18
		25
	12	2
May	<i>reading-week</i>	9
	<i>reading-week</i>	16

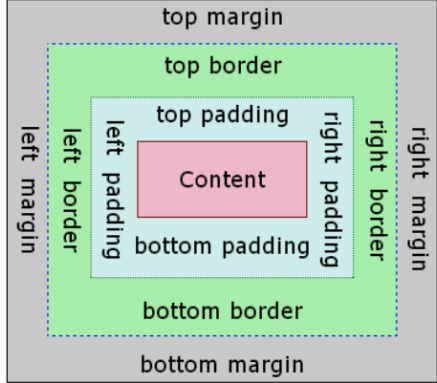



12 Topics – one topic per week

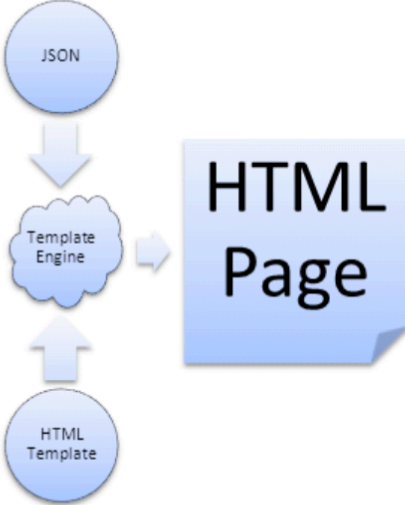
Each Topic builds on concepts, tools and techniques from previous weeks.


01: Introducing HTML   
web · client/server · html · documents · attributes · links · image · structure · nesting · wireframing · block


02: Introducing CSS   
content · padding · border ·

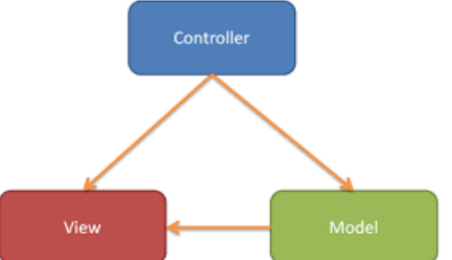
03: The Box Model   
content · padding · border ·


04: Navigation, Semantics & Style Guides 

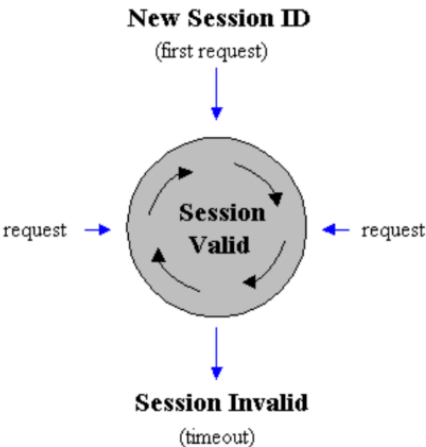
05: HTML Templates & Deployment   
clients · servers · hosting domains · dns · paths · http · command prompt · node · surge · server · compile · dry · wet · engine · partials · includes · layouts · paths · compile


06: CSS Frameworks   
review · bootstrap · semantic ui · container · segment · grid · stackable · tables · icons ·


07: Applications   
sites · apps · frameworks · command line · ide · java ·

08: Models & Views   
Models · Views · Controllers · conf · Song · Playlist · ArrayList · OneToMany · Bootstrap

09: Forms   
routes · get · post · delete · template loops · submit · buttons · 404

10: Sessions   
stateless · stateful · tracking · cookies · signup · login · logout · session object · clearing

11: Sessions & Models   
song · playlist · session · add · delete · login · signup

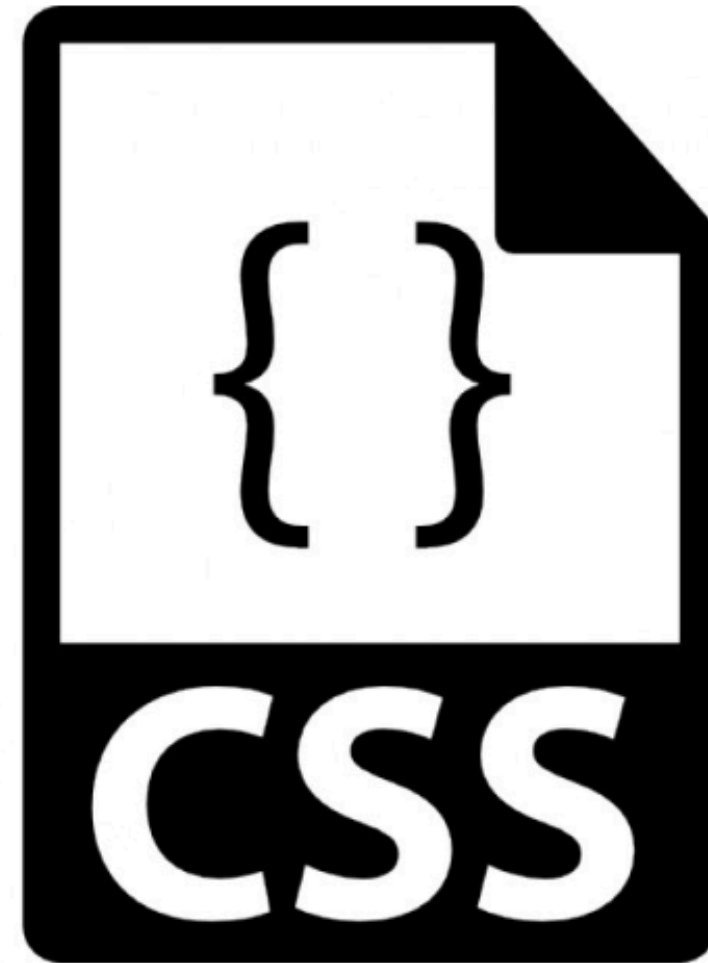
12: Deployment + Review   
heroku · cli · config · database · dashboard · logs · startup · management · shutdown

## 01: Introducing HTML



web · client/server · browser ·  
html · documents · elements ·  
attributes · links · images · page  
structure · nesting ·  
wireframing · block · inline

## 02: Introducing CSS



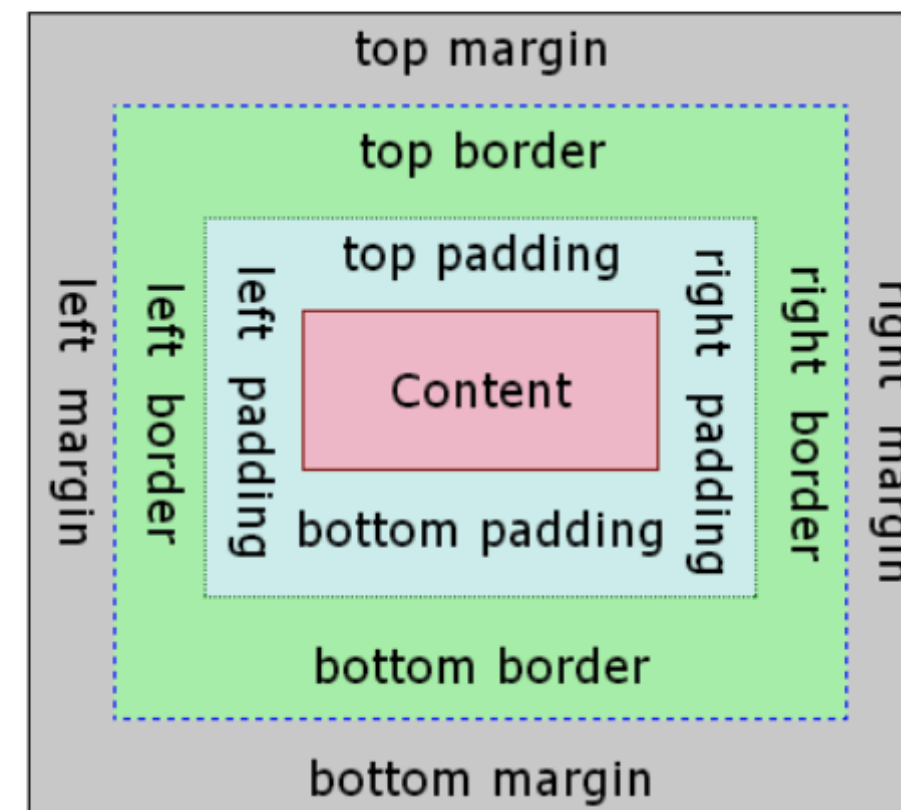
markup · style · function ·  
stylesheet · rules · selectors ·  
declarations · properties ·  
values · classes · ids ·  
inheritance

Core HTML + CSS

# Laying out pages with CSS

## Structuring a Navigation Metaphor

### 03: The Box Model



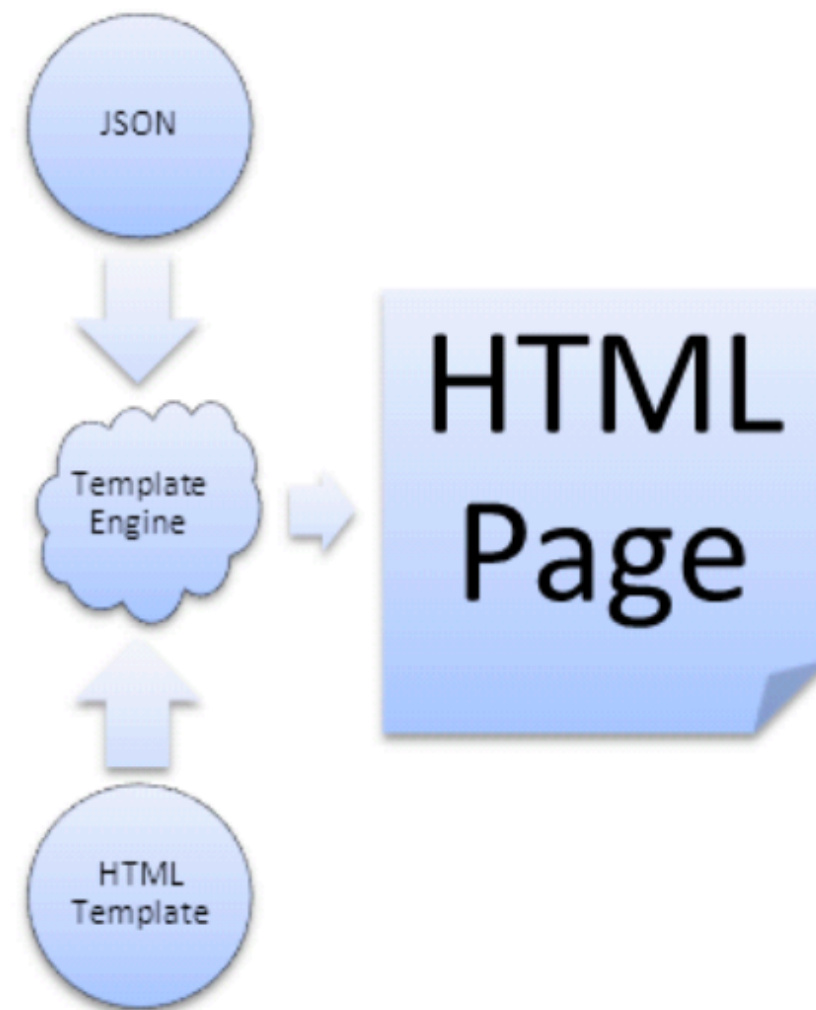
content · padding · border ·  
margin · style · width · colour ·  
dom · layout · float · left · right

### 04: Navigation, Semantics & Style Guides



indentation · encoding ·  
doctype · validity · semantics ·  
entities · type attributes ·  
quotations · nav · tab · current ·  
padding · border · menu · li · ul ·  
header · main · nav · aside ·  
article · footer · section · figure

## 05: HTML Templates & Deployment



clients · servers · hosting ·  
domains · dns · paths · http ·  
command prompt · node · harp  
· surge · server · compile · EJS ·  
dry · wet · engine · partials ·  
includes · layouts · paths ·  
compile

## 06: CSS Frameworks



review · bootstrap · semantic ui  
· container · segment · grid ·  
stackable · tables · icons ·  
images · row · col

Modularising  
a web site

Professional  
Styling with  
CSS Libraries



## Design Guides



visual design principles ·  
structure & layout · typography  
· colour design

## The UX



guiding principles · personas &  
scenarios · information  
architecture · prototyping ·  
product testing

Introduction  
to design  
principles for  
the web

Introduction  
to UX

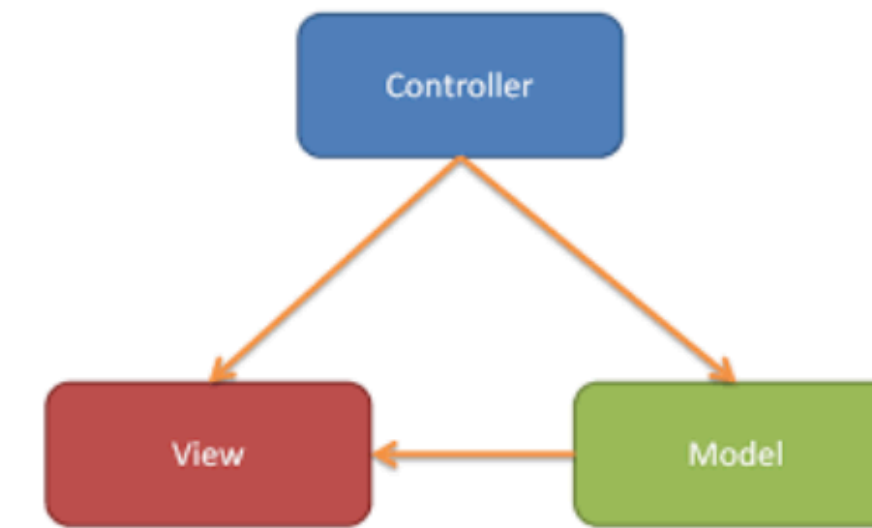
# From Web Sites to Web Applications

## 07: Applications



sites · apps · frameworks ·  
command line · ide · java ·  
request · response · front-end ·  
back-end

## 08: Models & Views



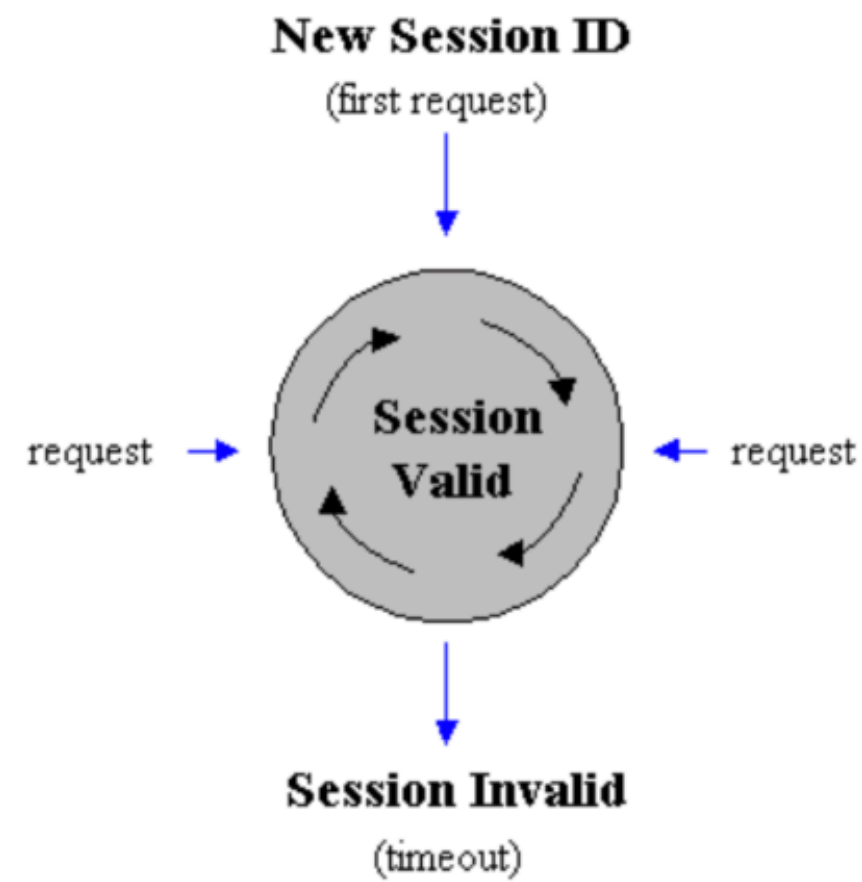
Models · Views · Controllers ·  
conf · Song · Playlist · ArrayList  
· OneToMany · Bootstrap

## 09: Forms



routes · get · post · delete ·  
template loops · submit ·  
buttons · 404

## 10: Sessions



stateless · stateful · tracking ·  
cookies · signup · login · logout  
· session object · clearing

## 11: Sessions & Models



song · playlist · session · add ·  
delete · login · signup

# Fundamentals of Web Application Development

Moving an Application to  
the Cloud

## 12: Deployment + Review



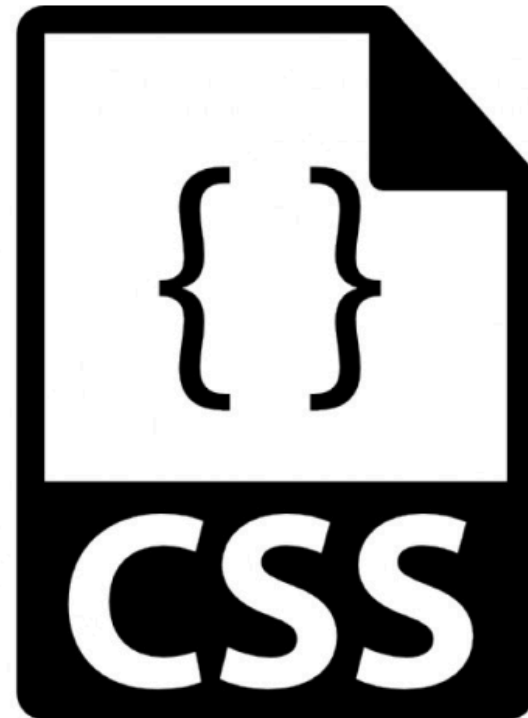
heroku · cli · config · database ·  
dashboard · logs · startup ·  
management · shutdown

## 01: Introducing HTML



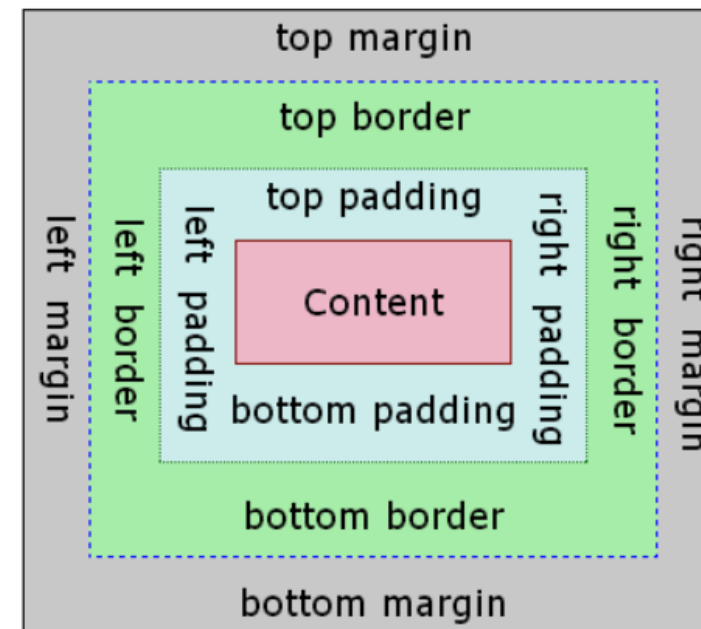
web · client/server · browser · html · documents · elements · attributes · links · images · page structure · nesting · wireframing · block · inline

## 02: Introducing CSS



markup · style · function · stylesheet · rules · selectors · declarations · properties · values · classes · ids · inheritance

## 03: The Box Model



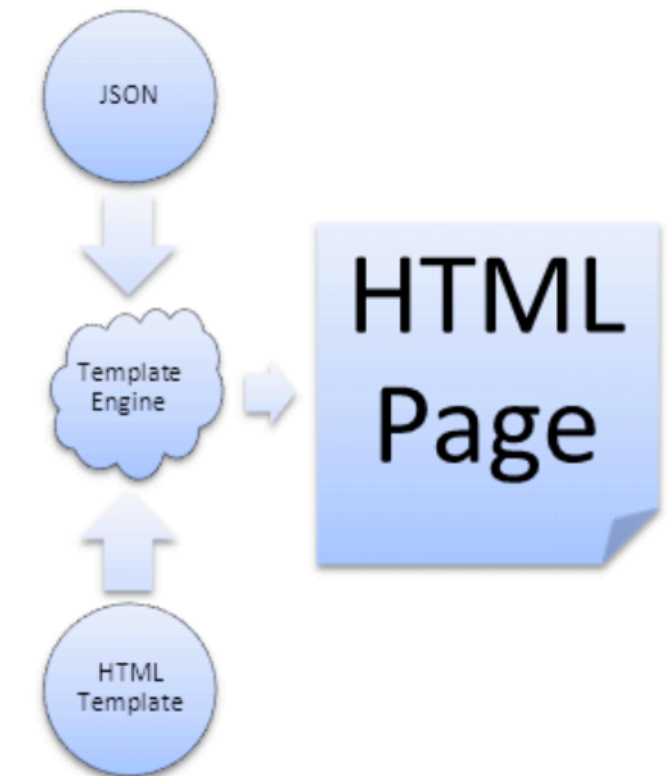
content · padding · border · margin · style · width · colour · dom · layout · float · left · right

## 04: Navigation, Semantics & Style Guides



indentation · encoding · doctype · validity · semantics · entities · type attributes · quotations · nav · tab · current · padding · border · menu · li · ul · header · main · nav · aside · article · footer · section · figure


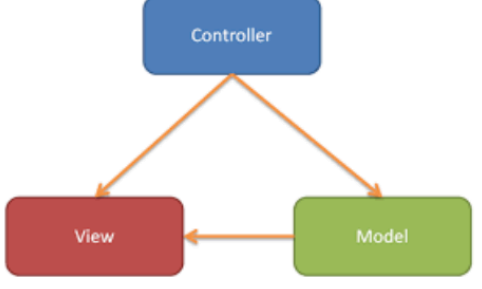

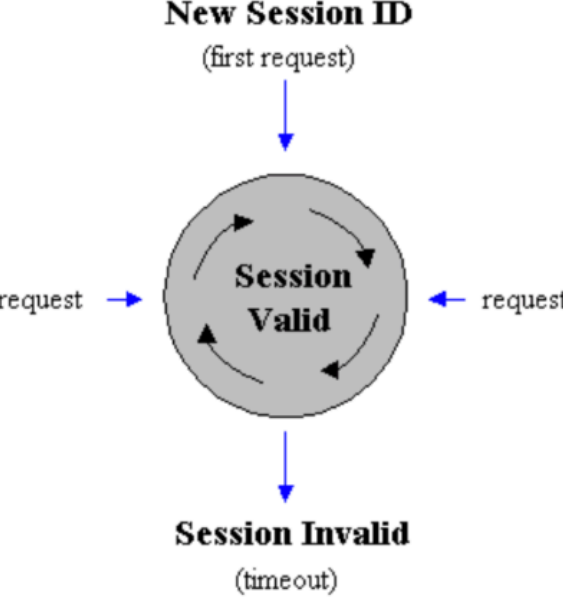


## 05: HTML Templates & Deployment



clients · servers · hosting · domains · dns · paths · http · command prompt · node · harp · surge · server · compile · EJS · dry · wet · engine · partials · includes · layouts · paths · compile

Assignment 1 based on skills acquired in topics 1-5


Allocated 40% of overall module grade

<p><u>07:</u> Applications</p>	<p>08: Models &amp; Views</p>	<p>09: Forms</p>	<p>10: Sessions</p>	<p><u>11: Sessions &amp; Models</u></p>	<p>12: Deployment + Review</p>
	 <p>Models · Views · Controllers · conf · Song · Playlist · ArrayList · OneToMany · Bootstrap</p>				
<p>sites · apps · frameworks · command line · ide · java · request · response · front-end · back-end</p>		<p>routes · get · post · delete · template loops · submit · buttons · 404</p>	<p>stateless · stateful · tracking · cookies · signup · login · logout · session object · clearing</p>	<p>song · playlist · session · add · delete · login · signup</p>	<p>heroku · cli · config · database · dashboard · logs · startup · management · shutdown</p>

Assignment 2 based on skills acquired in topics 6-12

Allocated 60% of overall module grade

### 01: Introducing HTML



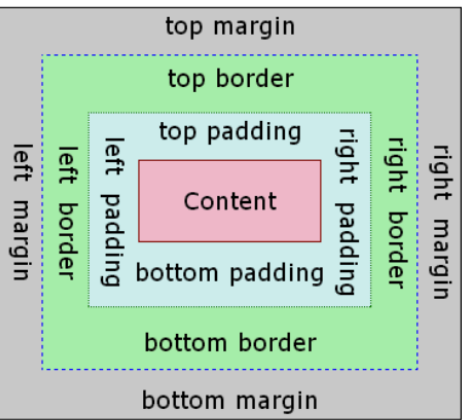
web · client/server · browser · html · documents · elements · attributes · links · images · page structure · nesting · wireframing · block · inline

### 02: Introducing CSS




markup · style · function · stylesheet · rules · selectors · declarations · properties · values · classes · ids · inheritance

### 03: The Box Model



content · padding · border · margin · style · width · colour · dom · layout · float · left · right

### 04: Navigation, Semantics & Style Guides




indentation · encoding · doctype · validity · semantics · entities · type attributes · quotations · nav · tab · current · padding · border · menu · li · ul · header · main · nav · aside · article · footer · section · figure

### 05: HTML Templates & Deployment




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### 06: CSS Frameworks



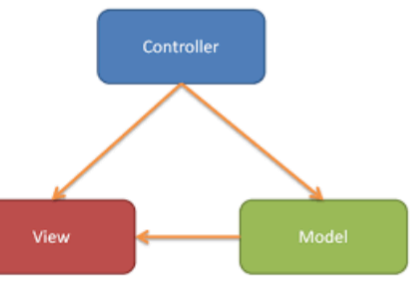
review · bootstrap · semantic ui · container · segment · grid · stackable · tables · icons · images · row · col

### 07: Applications



sites · apps · frameworks · command line · ide · java · request · response · front-end · back-end


### 08: Models & Views



Models · Views · Controllers · conf · Song · Playlist · ArrayList · OneToMany · Bootstrap

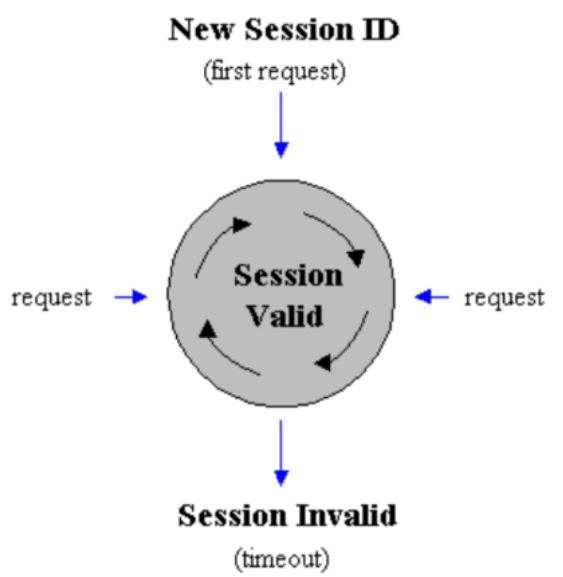
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### 09: Forms



routes · get · post · delete · template loops · submit · buttons · 404

### 10: Sessions



stateless · stateful · tracking · cookies · signup · login · logout · session object · clearing

### 11: Sessions & Models



song · playlist · session · add · delete · login · signup

### 12: Deployment + Review



heroku · cli · config · database · dashboard · logs · startup · management · shutdown