

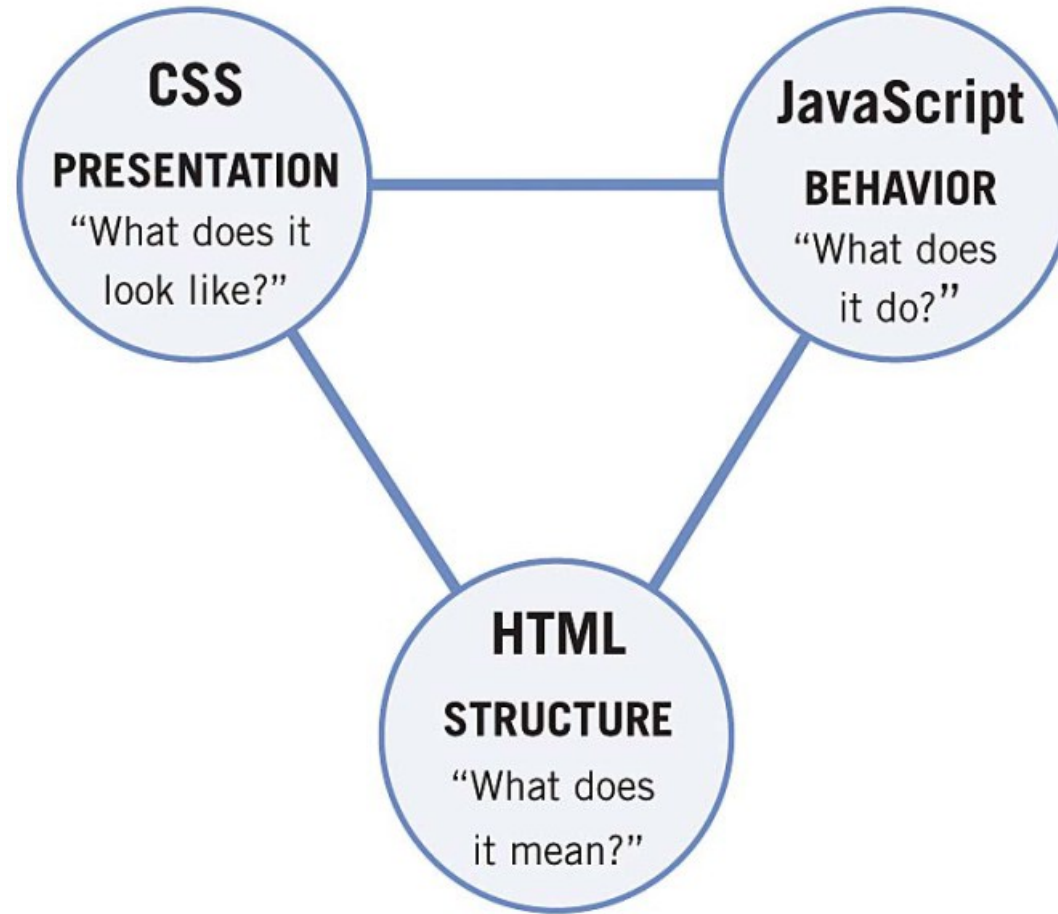
CMP204 Dynamic Web Development 1

Coursework hints

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Web application



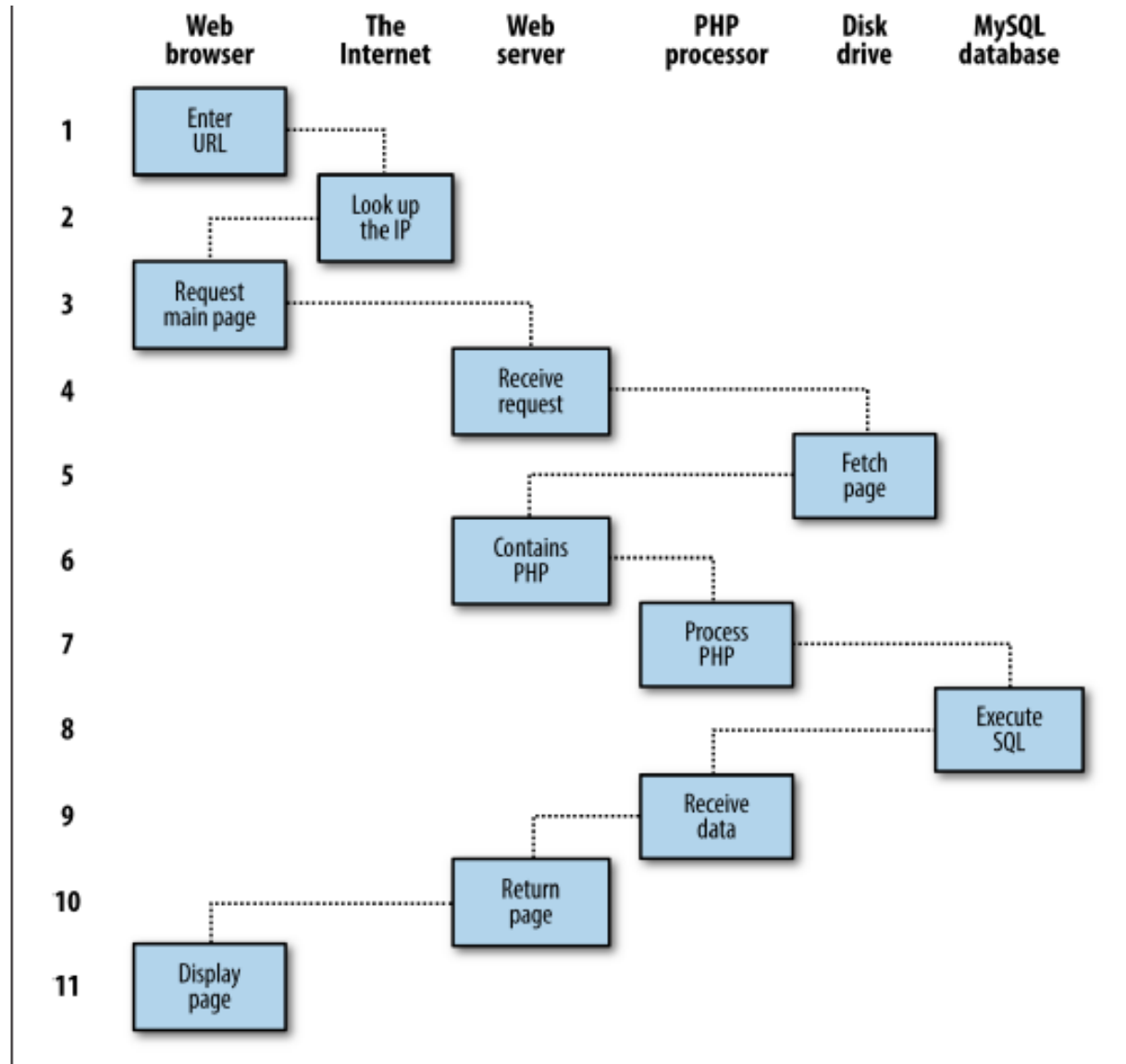


Figure 1-2. A dynamic client/server request/response sequence

Web application

- Must be built around a band/musical artist
 - Can't think of one? Make one up



Web application

- You do not have to provide your own images for the site
 - In this instance, using images found online is ok
 - Not a publically available web site
- What about the text content?
 - If you're struggling, use a Lorem Ipsum generator
 - I'm interested in the functionality rather than the content

Web application- general requirements

- An attractive layout, suitable colour scheme, and a good use of images
 - Consider Bootstrap themes on W3Schools
 - Colour palette ideas- <https://www.colourlovers.com/>
- Good contrast between the background and text
 - <https://webdesignledger.com/the-principle-of-contrast-in-web-design/>
- Clear functionality from the perspective of the user
 - <https://www.smashingmagazine.com/2009/02/clear-and-effective-communication-in-web-design/>

Web application- specific requirements

- A clear use of HTML5
 - Week 1
- Use of the Bootstrap framework providing a responsive layout
 - Week 2
- Use of JavaScript to manipulate the DOM based on an event
 - Week 3 and 4
- JavaScript loading of dynamically changing information
 - Week 3 and 4
- Use of jQuery in conjunction with the DOM
 - Week 6

Web application- specific requirements

- Use of a jQuery plugin to enhance your application
 - Week 6
- Use of AJAX (pure JavaScript i.e. without the use of a library)
 - Week 5
- Use of the jQuery AJAX function
 - Week 6
- Use of cookies
 - Week 4

Web application- specific requirements

- Appropriate consideration of relevant laws
 - Week 4 (cookies) and Week 5 (GDPR)
- User login functionality (PHP/MySQL)
 - Week 9 and 10
- Admin section of the website (PHP/MySQL)
 - Week 9 and 10
- Ability to select, add, edit and delete information from a database (PHP/MySQL)
 - Week 9 and 10

Web application- specific requirements

- Security measures
 - SQL queries should be written as prepared statements
 - Week 10
- Passwords should be salted and hashed
 - Week 10
 - Hint- <http://php.net/manual/en/faq.passwords.php>
- Validation of user input
 - Week 10 and 11

Web application- specific requirements

- You should include a requirements page in your application (named req.php)
- state each of the requirements, and provide a sentence or two for each bullet point, explaining how you implemented the requirement.
- indicate the names of the files, and line numbers where you have implemented the requirement e.g. fileOne.php, otherFile.js, etc.

General tips

- You must not use WordPress or any other content management system when developing your coursework website
- You should not take the code examples I've given you and paste them directly into your application

Final word

- This is just a summary of the key points
- Please ensure you have read the full coursework document on Blackboard

Questions?

