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Web and Database Computing •

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Server Architecture and Routes: HTTP & the Client-Server model

HTTP Server Review

Client-server model revisited

Client

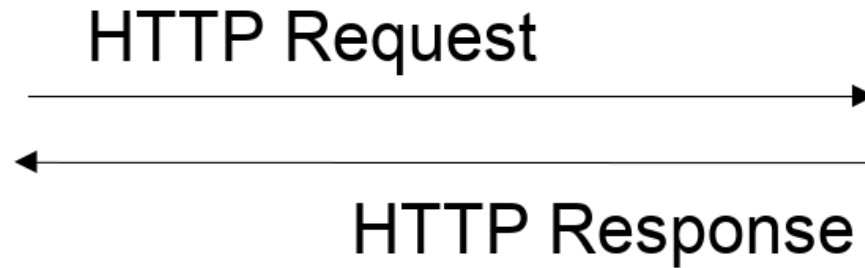
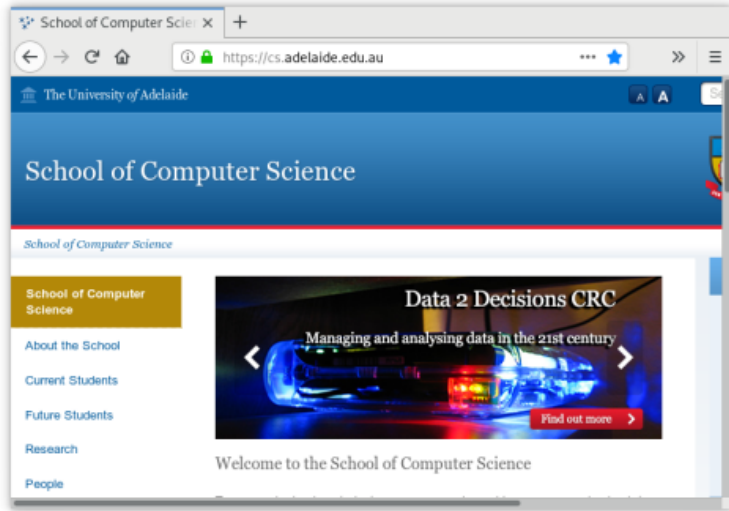
- Access services & resources
- Web Browsers usually the client in a Web System.

Server

- Provides those services and resources
- Can be on a dedicated machine, or software running on the same machine

Communication between the client and server is done using HTTP Requests

HTTP & Client-server architecture



HTTP requests and responses are our only method of communication

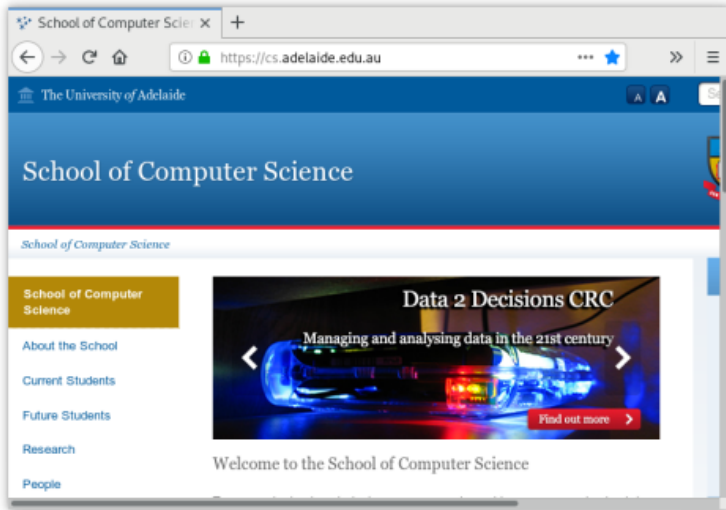
Our server can respond with static or dynamic content

- Static content could be a file, or some content that doesn't change
- Dynamic content is anything our server generates on the fly

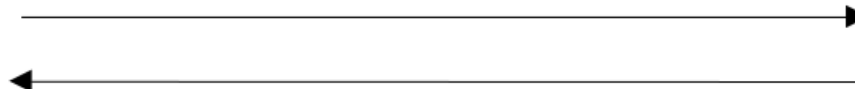
AJAX & Client-server architecture

AJAX requests are regular HTTP requests made using JavaScript

What the client sees:



AJAX HTTP Request



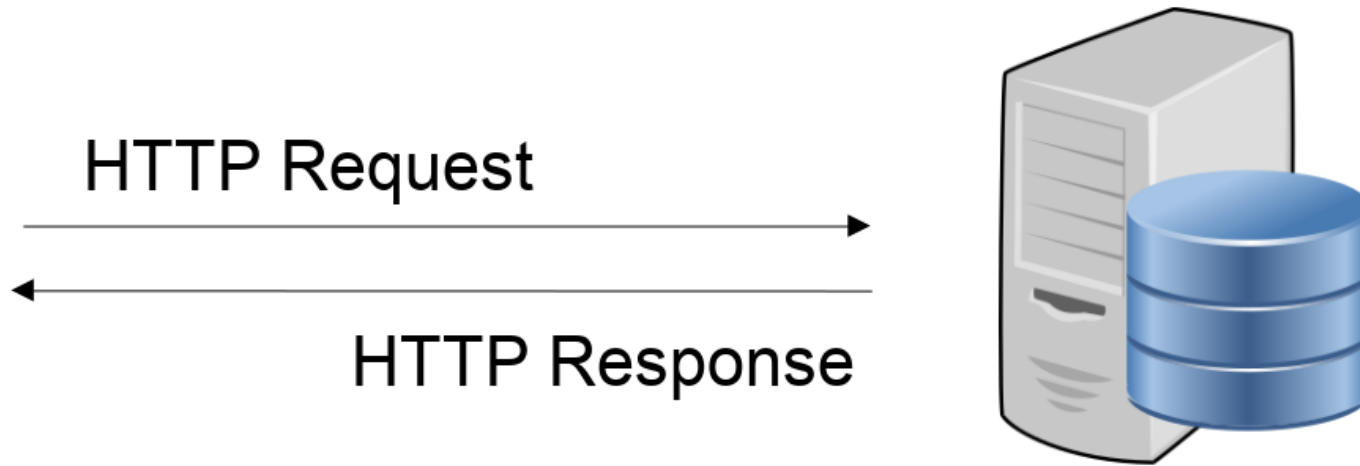
AJAX HTTP Response



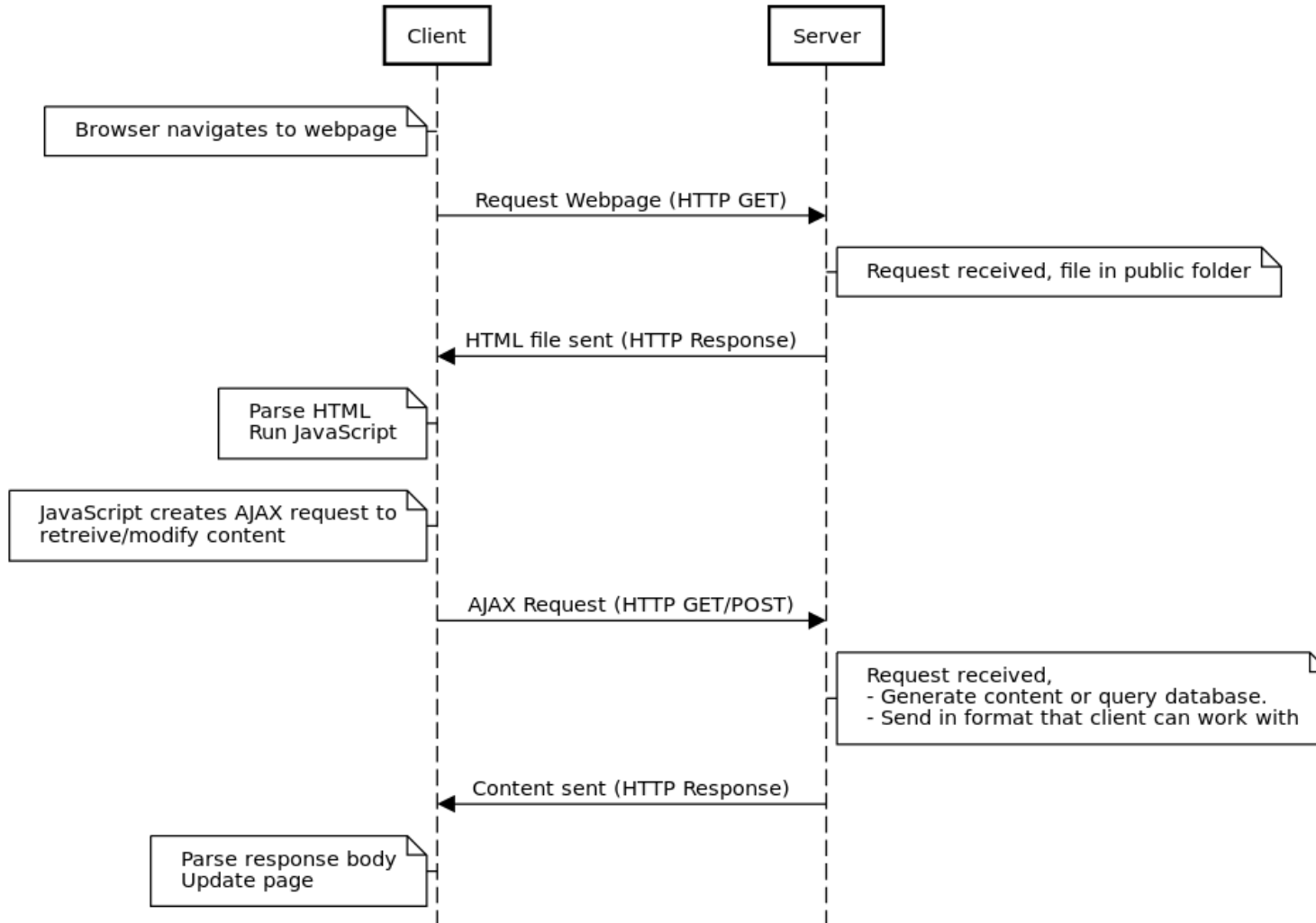
AJAX & Client-server architecture

AJAX requests are regular HTTP requests made using JavaScript

What the server sees:



AJAX Workflow



Summary

- Clients access services and resources, servers provide them.
- Communication between client and server done via HTTP requests.
- Servers can respond with static or dynamic content.
- AJAX requests are normal HTTP requests and are treated as such by the Server.



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