INTERNET BASICS

https://forms.gle/H72nCVb9hMBRs8U28

HIGH LEVEL

As developers, we don't need require a deep level of understanding of how the internet works

Most of it has been abstracted

RESPONSE TO REQUEST

WHAT HAPPENS WHEN YOU ENTER A URL IN YOUR BROWSER?

A REQUEST GETS SENT OUT TO THAT URL AS A PACKET FROM THE CLIENT

1. This packet contains info about the request
2. The packet is sent through underground wire
3. It continues travelling until it reaches an internet hub

THE INTERNET HUB USES THE PACKET INFORMATION TO DIRECT THE PACKET

1. The packet gets sent back out toward its destination
2. It will travel again through wire until it either
   - reaches another internet hub,
   - or reaches its destination

THE DESTINATION IS REACHED

1. The server fufills the request by sending a response
2. Typically, responses are too big so they are broken up into smaller packets
3. These packets are sent back with no particular order
4. The packets travel through various hubs until they arrive

THE RESPONSE ARRIVES AT THE CLIENT

1. The packets rebuild themselves

HTTP/HTTPS

HYPERTEXT TRANSFER PROTOCOL (SECURE)

- It is the primary way the internet transfers data
  - text,
  - images,
  - videos,
  - etc.
- Status codes
- Headers

STATUS CODES

- 1xx - in progress/informational
- 2xx - successful
- 3xx - redirects
- 4xx - client errors
- 5xx - server erros

IMPORTANT TAKEAWAYS

- Requests are sent by a client and receive responses from a server
- HTTP/HTTPS

ADDITIONAL RESOURCES

- A Packet's Journey
- High Level Explanation of the Internet
- Brief Summary of HTTP
- Detailed Explanation of HTTP