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Web-Works Lab

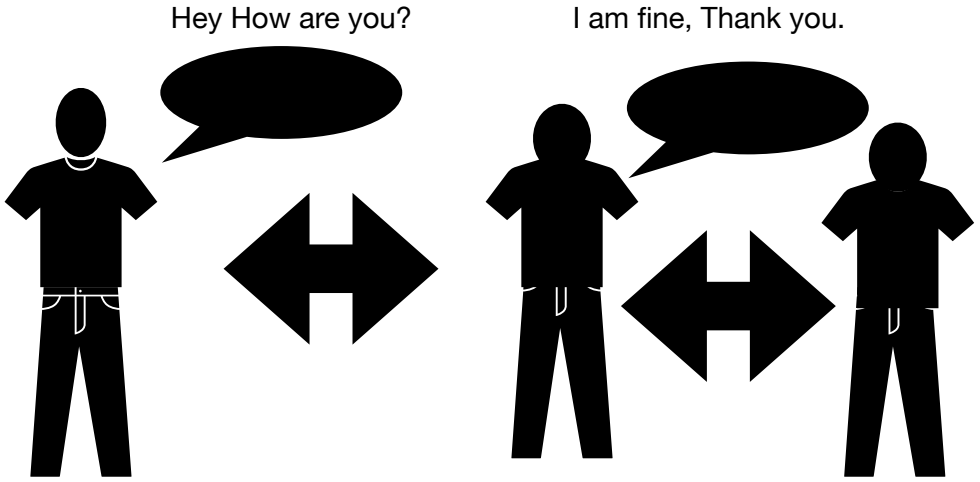
Topic 1:

1. The Internet is a networks of networks that exist worldwide which transfer data from one place to another using internet protocol suite.
2. The World wide web is a system where webpages are interconnected in a massive system on the internet.
3. A) Networks are interconnected computers intended for sharing of data from one computer to another.
   B) Specific computers that hold data that serves data to client computer.
   C) Smaller computer that makes sure data from one computer arrives at the other computer.

   D) small bits of the same info/data that are being sent to another computer. They can easily be recovered.

4) Human society is the metaphor for the internet where people are interconnected via relationships, and web is the expression of our thoughts via words.

5)



Two way communication between a client who asks a questions and the server that answers the question. Human beings/society are the physical representation of the internet.

Topic 2:

1) IP address is a numerical address or instruction to the computer. Where as the domain name serves a textual intermediary between the computer and the human as in it gives the numerical address a textual representation.

2) devmountain.com IP: 172.67.9.59

3) Directly letting users access the site will make the data vulnerable to hackers and it lets you know the location.

4) The IP address associated with the domain name is cached in the browser. If it is a new one then the browser connects to ISP company's server cache, if not then the browser connects to the roots DNS server.

Topic 3:

Steps Scrambled	Steps in Correct Order	Why did you put this step in this position?
Example: Here is an example step	*Here is an example step*	*- I put this step first because ____* *- I put this step before/after ____ because ____*
Request reaches app server	2	The client's request needs to go to the server for it to be processed.
HTML processing finishes	4	HTML has finish processing before other files can be processed
App code finishes execution	5	When all the files gets processed then the whole app gets executed.
Initial request (link clicked, URL visited)	1	I put this b/c client has to initiate the process first.
Page rendered in browser	6	Final step is that the client get what he requested.
Browser receives HTML, begins processing	3	Because HTML is processed before any other code

Topic 4:

Part A: GET/

1. I predict that I would see <h1>Jurrni</h1><h2>Journaling your journies</h2> in the terminal.
2. The content type would be text.
3. Yes I was correct because on the server.js file I saw that the function is sending <h1>Jurrni</h1><h2>Journaling your journies</h2> as the response.
4. Yes, I was correct because it was as a written HTML text.

Part B:

1) I predict I will see this:
   {"id":0,"date":"January 1","content":"Hello world"},
   {"id":1,"date":"January 2","content":"Two days in a row!"},
   {"id":2,"date":"June 12”,"content":"Whoops"}
2) I predict the contents type would be text file.
3) Yes, I was correct because I saw this on the server.js file:

```
let entries = [
   {
      id: 0,
      date: 'January 1',
      content: 'Hello world'
   },
   {
      id: 1,
      date: 'January 2',
      content: 'Two days in a row!'
   },
   {
      id: 2,
      date: 'June 12',
      content: 'Whoops'
   }
]
```

4) No, I wasn’t correct because I thought it was a text file because it was an object with array inside.

Part C:
1) The function is calling an object, updating the information of the object, increasing the id and passing the ‘entries’ object.
2) Properties we need to include on that body object are 1. id
2. date and 3. content.
The data type will be an array.

3)

'{"id": 3, “date” : “January17”, “content”: “Hey there”}’

curl -i -X POST -H 'Content-type: application/json' -d '{"id": 0, “date” : “Janiary17”, “content”: “Hey there”}’ http://localhost:4500/entry

4) We will be making the request to the URL http://localhost/4500/entry
5) We will see this as the body of the response:

```
[
   {
      id: 0,
      date: 'January 1',
      content: 'Hello world'
   },
   {
      id: 1,
      date: 'January 2',
      content: 'Two days in a row!'
   },
   {
      id: 2,
      date: 'June 12',
      content: 'Whoops'
```

```
    },



{
        id: 3,
        date: 'June 17',
        content: ‘Hey There’
}
]
```

6) The content type would be application/json.

7) Yes, because it did update and pushed the new object.

8)Yes, because the content-type for the object in the previous function was application/json. Since this was a new object the content-type would be the same.