

Database Design - Exam #2

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* Required

Web Apps

Which HTML element type can be used to present a multi-line text input to a user on a web page? * 5 points

- ☐ input
- ☐ multi-input
- ☐ string
- ☐ text
- ☒ textarea

Pymongo allows you to create a base template containing the common code that will be incorporated automatically into each page of the web app. * 5 points

- ☐ True
- ☒ False



Which of the following are NoSQL databases? (Select all that apply - you * 5 points are welcome to quickly research this!)

- ☒ Redis
- ☐ Oracle
- ☐ PostgreSQL
- ☒ MongoDB

A virtual environment is a sandboxed area of memory where Python modules can be installed to keep them isolated and protected from other projects that may use different modules or different versions of the same modules. * 5 points

- ☒ True
- ☐ False

It is possible to automatically generate the correct links from a template to a route by using the ____ method. * 5 points

- ☐ render_template()
- ☒ url_for()
- ☐ find()
- ☐ route()



What can we be sure the following code snippet does when a web browser makes a request for the app's "play" route?

* 5 points

```
@app.route('/play')
def play():
    games = db.games.find({}, { name: 1})
    return render_template('game_options.html', games=games)
```

- ☐ Returns the contents of the 'game_options.html' file to the browser
- ☐ Passes the documents of the 'games' collection to the 'game_options.html' file and returns its contents to the browser
- ☒ Passes the _id and names of the documents of the 'games' collection to the 'game_options.html' file and returns its contents to the browser
- ☐ Returns the names of the documents of the 'games' collection to the browser
- ☐ None of the options

Which of the following are technologies/languages run/interpreted in the "front-end" of a web app? *

5 points

- ☒ HTML
- ☒ CSS
- ☒ Browser-based Javascript
- ☐ Python
- ☐ MongoDB



What does the following line do? *

5 points

```
<!DOCTYPE html>
```

- ☒ Informs the web browser that this is an HTML version 5 document
- ☐ Informs the web browser that this is an HTML document
- ☐ All HTML content must be placed between this opening tag and its corresponding closing tag
- ☐ All of the above

The internet is often referred to as a "network of computers". *

5 points

- ☐ True
- ☒ False



Which of the following fields are updated by the following lines of code? * 5 points
(Select all that apply.)

```
db.projects.update_one( {  
    { "_id": ObjectId(select_id) },  
    {  
        "$set": {  
            "status": new_status  
            "modified_at": datetime.datetime.utcnow()  
        }  
    }  
})
```

- ☐ select_id
- ☒ modified_at
- ☐ projects
- ☐ _id
- ☒ status
- ☐ new_status

The pymongo module allows one to interact with a MongoDB database using a syntax that is very similar to Javascript code used within the MongoDB shell. * 5 points

- ☒ True
- ☐ False



What does HTTP stand for? *

5 points

- ☒ Hypertext Transfer Protocol
- ☐ Hypertext Transfer Technique Protocol
- ☐ Hyper Transfer Technique Protocol
- ☐ None of the above

On The Web, when a client requests data from the server, the server must always responds with the data that was requested.

* 5 points

- ☐ True
- ☒ False

What does the variable "x" contain after this line of code is executed? *

5 points

```
x = db.projects.insert_one(doc)
```

- ☐ A pointer to the collection "projects"
- ☐ None value
- ☒ The unique id of the newly-inserted document
- ☐ The unique id of the first document in the collection "projects"



Which of the following networks allow machines to simultaneously act as ^{*} 5 points a client in one exchange while playing the role of a server in another?

- ☐ centralized networks
- ☐ pseudo server networks
- ☒ peer-to-peer networks
- ☐ pseudo client networks

Assuming the following code, part of a Python web app using the Flask ^{*} 5 points module, for a website hosted at <http://foobarstein.org>, we can say with relative certainty that...

```
@app.route( '/profile/<userid>' )  
def user( userid ):  
    return render_template( 'user.html', userid=userid )
```

- ☒ If a web browser requests the URL, <http://foobarstein.org/profile/10>, the code will respond with the contents of the user.html template, after it has been passed the userid 1-
- ☐ If a web browser requests the URL, <http://foobarstein.org/user/10>, the code will respond with the contents of the user.html template, after it has been passed the userid 1-
- ☐ The variable « userid » will be undefined within this function, and so will also be undefined within the user.html template.

The "link" element in HTML is used to add url links to other websites. ^{*} 5 points

- ☐ True
- ☒ False



Assuming we are following conventions and using web technologies for what they were originally intended to be used for, which of the following can we safely say about the following text? * 5 points

```
POST /safemoon HTTP/1.1
User-Agent: Mozilla/4.0 (compatible; MSIE5.01; Windows NT)
Host: knowledge.kitchen
Content-Type: application/x-www-form-urlencoded
Content-Length: 40
Accept-Language: en-us
Accept-Encoding: gzip,
message=to%20the%20moon%21
```

- ☒ It is written in the HTTP protocol.
- ☒ It represents data transferred over The Internet
- ☒ It represents communication from a client to a server.
- ☐ It represents communication from a server to a client.
- ☒ It is most likely sent from a web browser.
- ☐ It is most likely sent from a web server.
- ☒ It includes a data payload

The continents of the world are linked together on the Internet primarily by fiber optic cables, including cables running across ocean floors. * 5 points

- ☒ True
- ☐ False

"Hypertext" essentially means documents which reference and link to one-another. * 5 points

- ☒ True
- ☐ False



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