

Hand in a stapled, printed copy with your answers.

Homework: /SI110/The Cyber Battlefield/Web-HTML Server-Side Scripting

1. A webpage on www.fropjop.com has a form that allows user input to enter data. Entering data results in a script being executed that depends on this data. The script loops forever (infinite loop) if the user provides bad input. Who gets harmed by the bad input: the user who entered the data, or the webserver owner of the www.fropjop.com, if the script is ...

- a. ... "client-side" ? **Circle one:** user webserver owner
- b. ... "server-side" ? **Circle one:** user webserver owner

2. Fill in the missing pieces of the HTML below, based only on the following (the url isn't real): You go to the page, enter **mango** in the first box, enter **spinach** in the second box, **steak** in the third box, then press the "Look Up Meal" button, which results in the following URL being visited:

<http://rona.cs.usna.edu/recipeFinder.jsx?f=mango&m=steak&v=spinach>

```
<html>
  <head></head>
  <body>
    <form name="lookup" onsubmit="return false"
      action="_____ ">
      Fruit: <input type="text" name="_____">
      Meat: <input type="text" name="_____">
      Vegetable: <input type="text" name="_____">
      <input type="button" onclick="submit()" value="Look Up Recipe">
    </form>
  </body>
</html>
```

3. Go to the URL: <http://rona.cs.usna.edu/~sil110/lec/l15/stfin.html> , enter some numbers, and click the "process" button. Normally, you get a nice message that your input has been processed. It so happens that the server script that the form submits to will crash and cause a server error if it receives -999 for both input values. For that reason, stfin.html does some client-side input validation to ensure that it never submits -999 for both values. Find a way to submit -999 to this server side script none the less!

- a. What is displayed in your browser when this happens.
- b. Describe exactly what you did to send this bad input to the server despite stfin.html's input validation.

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4. Consider this HTML file:

```
<html>
  <head></head>
  <body>
    <form name="secret" onsubmit="return false"
      action="http://rona.cs.usna.edu/cgi/messenger.jsx" method="get">
      Enter message here: <input type="password" name="m" >
      <input type="button" value="Send" onclick="submit()">
    </form>
  </body>
</html>
```

a. You enter the secret message: "the Goat will meet you at noon" and press the "send" button. What URL gets visited as a result?

b. Why is it that submitting sensitive information to a website using forms and the "get" method like this puts users' information in danger?