Faculty of Computer Science, Dalhousie University   *17-Jan-2025*

DGIN 5201 — Digital Transformation

Lecture 6: Lab 2: Password Protection

Location: Goldberg CS 134 and 143   Instructor: Tymon Wranik-Lohrenz
Time: 11:35–12:25 and 13:05–13:55

Lab 2: Password Protection

Hands-on e3: Password Protection

Example e3: Password Protection

- Let us make a copy of our `e2` site
- First, go back to the directory above `e2`:
  ```
  cd ../..
  ```
- Use command `pwd` to check your directory
- Copy `e2` to `e3` as an exact copy:
  ```
  rsync -av e2/ e3/
  ```
- Check the new site `e3` in the browser
- `rsync` is a very useful utility for copying directory structures
    - it works locally as well as over ssh
    - it copies incrementally differences, which is important if two sites are large and mostly equal
    - it may preserve permissions if we use option `-a`

Example 3: Simple Password Protection

- `cd` to `e3` directory and let us prepare a password
- In a locally-only readable file `pw` (`rw-------`) we can save a password for our reference: `dt dt5201`
- Prepare the password for the site using the command:
  ```
  htpasswd -bc .htpasswd dt dt5201
  ```
- Make the file `.htpasswd` all-readable and check its contents
- Prepare the file `.htaccess` and make it all readable:
  ```
  AuthType Basic
  AuthName dgin5201
  AuthUserFile /users/webhome/<your_csid>/dgin5201/e3/.htpasswd
  AuthGroupFile /dev/null
  <Limit GET POST>
  require user dt
  </Limit>
  ```
- Check that site is password-protected

Summary of e3

- Files and permissions copied from `e2`

- `pw` file with permissions `rw-------`
- `.htpasswd` file with permissions `rw-r--r--` and appropriate content set up with the `htpasswd` command
- `.htaccess` file with permissions `rw-r--r--` and content set up for password protection as given in class

Concepts Review: Example 3

- `rsync` command, `-av` options
- `htpasswd` command, password saved as hash
- Using `.htaccess` for password-controlled access

Hands-on e4: Introducing a Form

Example e4: Introducing a Form

- With `rsync` copy `e3` to `e4`, update .htaccess file
- Change the table part of `index.html` to:

```
<form>
<table>
<tr><th align=right>First and last name:</th>
<td><input type="text"></td></tr>
<tr><th align=right>Email:</th>
<td><input type="text"></td></tr>
<tr><th>Area of Interest (DB, HI, DS):</td>
<td><select><option>DB</option><option>HI</option>
  <option>DS</option></select></td></tr>
 </table>
  </form>
```

- Check the page and see that this is usable fillable form, which can be printed

Concepts Review: Example 4

- Creating fillable form in HTML: `<form>...<form>`
- `<input type="text">`
- `<select><option>op1</option>...</select>`

Summary of e4

- Files set up as in `e3`
- `index.html` modified to make a usable fillable form