OLLSCOIL NA hÉIREANN

THE NATIONAL UNIVERSITY OF IRELAND, CORK

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CLASS TEST 2009-2010 (SAMPLE)

CS2510 Web Servers

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Time allowed: Forty-five minutes

The Apache Web server runs on a machine which listens on port 80 on IP address 192.168.0.0. Apart from the core modules and an MPM, only the following modules have been statically-compiled and linked into the Apache executable: mod_mime, mod_autoindex, mod_alias, and mod_authz_host. The httpd.conf file contains:

```
Listen 192.168.0.0:80
ServerRoot /usr/local/apache
ServerName www.exam.ie
DocumentRoot /htdocs/www
ErrorDocument 404 /errors/not_found.html
ErrorDocument 403 /errors/not_permitted.html
Options -Indexes
Alias /images /htdocs/images
<Directory />
AllowOverride None
</Directory>
<Directory /htdocs/www/downloads>
AllowOverride All
</Directory>
```

Recall that the path in an ErrorDocument directive is appended to the document root to give the location of the customized error document.

The directory /htdocs contains the following:

```
• www
```

- .htaccess
- index.html
- errors
 - * not_found.html
 - * not_permitted.html
- downloads
 - * .htaccess
 - * index.html
 - * doc1.pdf
 - * doc2.pdf
- images
 - logo.gif
 - photo.jpg

The file /htdocs/www/.htaccess contains the following:

Deny from All

The file /htdocs/www/downloads/.htaccess contains the following:

Allow from 192.168.0.1

Assume all file permissions are correctly set.

Ten HTTP requests arrive at port 80 on IP address 192.168.0.0; in the first nine of them the client's IP address is 192.168.0.1, and in the last one the client's IP address is 192.168.0.2. For each request below:

- state what the contents of the response body will be, in particular give the absolute pathname of the file, if any, that will be served in the response body; and
- explain in detail why this response body will be served.

1. Arriving from client 192.168.0.1:	GET /index.html HTTP/1.1
	Host: www.exam.ie
2. Arriving from client 192.168.0.1:	GET / HTTP/1.1
	Host: www.exam.ie
2 A mining from alignet 102 168 0 1.	
3. Arriving from client 192.168.0.1:	
	Host: www.exam.ie
4. Arriving from client 192.168.0.1:	GET /images/logo.gif HTTP/1.1
e	Host: www.exam.ie
5. Arriving from client 192.168.0.1:	
	Host: www.exam.ie
6. Arriving from client 192.168.0.1:	CET /photo ing UTTD/1 1
0. Animing from chem 192.108.0.1.	Host: www.exam.ie
	nost. www.exam.ie
7. Arriving from client 192.168.0.1:	GET /downloads/doc1.pdf HTTP/1.1
-	Host: www.exam.ie
8. Arriving from client 192.168.0.1:	
	Host: www.exam.ie
9 Arriving from client 192 168 0 1	GET /downloads/index.html HTTP/1.1
7. Turrying from enemt 172.100.0.1.	Host: www.exam.ie
10. Arriving from client 192.168.0.2:	GET /downloads/ HTTP/1.1
	Host: www.exam.ie