

Dear Server-side Students,

Please find below **ESSENTIAL INFO for the IN-CLASS TEST 01 (ICT01) and the MOCK ICT01** for 5COSC0204W Server-side Web Dev Module. **READ CAREFULLY!**

### **1) ICT01 PRACTICALITIES**

The **ICT01** will take place on **Week 08** on **TUE 11 MARCH 2025 3.30-5.30pm**.

It will be an **online test on Blackboard via SEB** that **MUST** be taken **on-site on campus during your scheduled exam time**. **Exam location details will be informed by the registry**

### **2) ICT01 DURATION & FORMAT**

ICT01 is scheduled to run for **100 minutes**, as indicated by a timer.

It will be accessible from the Module Blackboard site under the "IN-CLASS TEST 01 (ICT01)" area and inside the "ICT 01 – REAL" folder.

It will require for you to open an "**ICT01 - Sample Data & PHP Code**" document (same folder) which contains PHP code inspired from Tutorial 01 to Tutorial 05 and sample data in a database table. The lines of code will be numbered.

- The ICT01 will consist of **8 questions (12 or 13 marks each, 12-13 minutes per question)** about specific lines of PHP code.
- You will have to **answer the questions textually** by typing your answer in the provided text box (just like for the MOCK ICT01).
- Concise but precise bullet points-type answers are recommended.
- You will be assessed on the clarity of the provided answers.

### **3) ICT01 REVISIONS**

You need to be very familiar with all the material covered in the **Tutorials 01 to Tutorial 05**.

The **Model Answers** for the tutorials are available on Blackboard and give you all the code you need for the web app.

All tutorial answers are provide a step-by-step run-through and explanation of how the web app is built and the code is written.

- Lecture 01 covers the Template Page (Tut 01).
- Lecture 02 covers the Index Page (Tut 02).
- Lecture 03 covers the Product Page (Tut 03).
- Lecture 04 covers the Basket Page (Tut 04).
- Lecture 05 will cover the Login Page (Tut 05).
- Lecture 06 will cover the Mock ICT01.

#### **4) MOCK ICT 01**

A **MOCK ICT01** has been set up to help you practice in your own time and at your own pace for ICT01.

The MOCK ICT01 is available under the "IN-CLASS TEST 01 (ICT01) " area of Blackboard and inside the "ICT01 - MOCK" folder.

- MOCK ICT01 requires for you to open the "ICT01 MOCK TEST - Sample Data & PHP Code" document to take the mock test.
- MOCK ICT01 has collated a great number of questions from past papers (25 of them) just for you to get access to a wide range of queries.
- The order of the questions is randomized so that every time you take the mock test the questions will appear in a different order.
- You have an infinite number of attempts to practice as many times as possible ahead of the real ICT01.
- MOCK ICT01 will not be marked, it is just there for you to practice.

#### **5) MOCK ICT 01 RUN-THROUGH IN LECTURE 06 (WEEK 07)**

The answers to **MOCK ICT01 will be discussed, during the lectures week starting from 3rd March, the week before the ICT01.**

Your attendance to this session is absolutely essential.

Please make sure you attempt the Mock ICT01 ahead of the run-through to make the most of the run-through session.

All the best with your ICT 01 Revisions.

Kindest regards,

Theja

## Question 1

4 Points

Referring to the code from line 18 to line 20.

Explain what `mysqli_fetch_array` is (line 20) and how it is used here.

## Question 2

4 Points

Referring to the code from line 20 to line 27.

On line 22, could `$id` be used instead of `$details['prId']` to display the catalogue item number? Explain.

## Question 3

4 Points

Referring to the code from line 18 to line 20.

Explain what `$runSQL` is (line 19), how it gets created and what value it contains.

## Question 4

4 Points

Referring to the code from line 58 to line 61.

Explain what `$theid` is (line 58 and then line 61), how it gets created and what it contains.

## Question 5

4 Points

Referring to the code from line 61 to line 92.

Explain in what situation the condition on line 61 can be verified and thus trigger the code on line 63.

## Question 6

4 Points

Referring to the code from line 75 to line 90.

Explain what `$info` is (line 78), how it gets created and what it contains.

## Question 7

4 Points

Referring to the code on line 42 and line 89.

Explain how `$theid` and `$thequ` are used to populate the `$_SESSION['storage']` structure. Use examples taken from the *pro* table on the “Sample Data and PHP Code” document to illustrate your answer.

## Question 8

4 Points

Referring to the code from line 29 to line 34.

Referring to line 33, explain why `hidden` needs to be used here and why `value` is set to `$id`.

## Question 9

4 Points

General Question

Explain how HTML, CSS, PHP and SQL are combined together to create dynamic server-side web applications. Explain how HTML, CSS, PHP and SQL are combined together to create dynamic server-side web applications.

## Question 10

4 Points

Referring to the code from line 18 to line 20.

Explain what `$SQL` is (line 18), how it gets created and what value it contains.

## Question 11

4 Points

Referring to the code on line 58 and line 59.

Explain what `newid` is (line 58), how it gets created and what it contains.

## Question 12

4 Points

Referring to the code on line 58 and line 59.

Explain what `newqu` is (line 59), how it gets created and what it contains.

## Question 13

4 Points

Referring to the code from line 20 to line 27.

Explain in detail line 25.

## Question 14

4 Points

Referring to the code from line 29 to line 34.

Explain what `action` is (line 29) and how it is used here.

## Question 15

4 Points

Referring to the code on line 16 and line 18.

Describe what happens to `previd` and `$id` if the user selects the 'Cookie Jar' in the *pro* table presented on the "Sample Data and PHP Code" document.

## Question 16

4 Points

Referring to the code from line 20 to line 27.

Explain what `$details` is (it appears 7 times on line 20 to line 27), how it gets created and what value it contains.

## Question 17

4 Points

Referring to the code from line 20 to line 27.

Explain what `strtoupper` is (line 23) and how it is used here.

## Question 18

4 Points

**Referring to the code on line 42 and line 89.**

Explain what `$_SESSION['storage']` is, how it gets created and what is it used for.

## Question 19

**4 Points**

**Referring to the code from line 61 to line 92.**

Explain in what situations the condition on line 67 can be verified and thus trigger the code on lines 69, 70 and 71.

## Question 20

**4 Points**

**Referring to the code from line 75 to line 90.**

Compare and contrast `$thequ` and `$sourqu`. Explain what they are, how they get created and what they contain.

## Question 21

**4 Points**

**Referring to the code from line 61 to line 92.**

Explain what happens if the `else` on line 73 is verified and thus if the code directly following it is triggered.

Text Editor

## Question 22

**4 Points**

**Referring to the code from line 29 to line 34.**

Explain what `method` is (line 29) and how it is used here.

## Question 23

**4 Points**

**Referring to the code from line 75 to line 90.**

Why does a SQL query need to be written on line 75?

## Question 24

**4 Points**

**Referring to the code on line 16 and line 18.**

Explain what `prevId` is (line 16), how it gets created and what it contains.

## Question 25

**4 Points**

**General Question**

Explain how CSS is used to create a consistent look-and-feel across a web app. Explain how CSS is used to create a consistent look-and-feel across a web app.

## 5COSC024W Server-side Web Development Mock ICT01 – Sample Data and PHP Code

**Sample Data:** for the purpose of this mock assessment, the table *pro* was created in the MySQL database.

*pro*

prId	prName	prPicName	prDescrip	prPrice	prQuantity
5474	Boss Mug	bossmug.jpg	I Love My Boss Mug	05.99	423
5856	Silver Juicer	silverjuicer.jpg	Edgy stylish juicer	38.45	03
6211	Cookie Jar	cookiejar.jpg	Lovely glass cookie jar	12.99	14
6334	Cup Holder	cupholder.jpg	Holds your coffee cup	03.79	2451
6356	Fun USB Stick	funusbstick.jpg	Funny 32G USB stick	18.95	260

*nicepage.php*

```
01 <?php
02 include("db.php");
03 $pagename="Nice Page";
04
05 echo "<html>";
06 echo "<head>";
07 echo "<title>".$pagename."</title>";
08 echo "<link rel=stylesheet type=text/css href=simplestyle.css>";
09 echo "</head>";
10
11 echo "<body>";
12 echo "<center>";
13 echo "<h1>Buy Stuff</h1>";
14 echo "<hr>";
15
16 $id=$_GET['previd'];
17
18 $SQL = "select * from pro where prId=".$id;
19 $runSQL = mysqli_query($conn,$SQL) or die(mysqli_error($conn));
20 $details = mysqli_fetch_array($runSQL);
21
22 echo "<p>Catalogue Item Number: ".$details['prId'];
23 echo "<p>". strtoupper($details['prName']);
24 echo "<p>".$details['prDescrip'];
25 echo "<p><img src=images/".$details['prPicName'].">";
26 echo "<p>£".$details['prPrice'];
27 echo "<p>".$details['prQuantity']." items for you to get!";
28
29 echo "<form method=post action=greatpage.php>";
30 echo "<p>Enter how many: ";
31 echo "<input type=text name=newqu size=5 maxlength=3>";
32 echo "<input type=submit value='Get them'>";
33 echo "<input type=hidden name=newid value=".$id.">";
34 echo "</form>";
35
36 echo "</center>";
37 echo "</body>";
38 echo "</html>";
39 ?>
40
```

**greatpage.php**

```
41 <?php
42 session_start();
43 include("db.php");
44
45 $pagename="Great Page";
46
47 echo "<html>";
48 echo "<head>";
49 echo "<title>".$pagename."</title>";
50 echo "<link rel=stylesheet type=text/css href=simplestyle.css>";
51 echo "</head>";
52
53 echo "<body>";
54 echo "<center>";
55 echo "<h1>Buy Stuff</h1>";
56 echo "<hr>";
57
58 $theid=$_POST['newid'];
59 $thequ=$_POST['newqu'];
60
61 if (!ISSET($_POST['newid']))
62 {
63     echo "<p>Nothing new is added, show the stuff from before";
64 }
65 else
66 {
67     if (!ISSET($_POST['newqu']) or $thequ==0)
68     {
69         echo "<p>Error!";
70         echo "<p><a href=nicepage.php>Enter correct value!</a>";
71         exit;
72     }
73     else
74     {
75         $theSQL="select prQuantity from pro where prId=".$theid;
76         $runtheSQL=mysqli_query($conn,$theSQL) or die (mysqli_error($conn));
77         $info=mysqli_fetch_array($runtheSQL);
78         $ourqu=$info['prQuantity'];
79
80         if ($thequ > $ourqu)
81         {
82             echo "<p>Not good!";
83             echo "<p><a href=nicepage.php>Do it again!</a>";
84             exit;
85         }
86         else
87         {
88             echo "<p>Great, item added!";
89             $_SESSION['storage'][$theid]=$thequ;
90         }
91     }
92 }
93 echo "</center>";
94 echo "</body>";
95 echo "</html>";
96 ?>
```