



School of Computer Sciences
CAT201 Integrated Software Development
Workshop

Assignment 1: Integrated Software Development Workshop 2020/2021

Lecturer: Dr. Tan Tien Ping

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Group Members

Name	Matric No.
Rafia Hoassain	149684
Kirtiniroopa Shankar	146127

Process, Features and Function

First a new Virtual Host CATProject is created in C:\wamp64 directory. One the Virtual Host is set up the .php file is run on the browser. The directory <http://catproject.local/Home.php> is used to open the Home page, while the linked Notes page is located at <http://catproject.local/Notes.php>. Once at the Home page students can enter the subject name, keywords, summary and notes for their preferred subject. When the notes are submitted, they are stored in a text file named Class Notes.txt. Students can then go to the Notes page to view all their written notes by clicking the button View Notes. The students can also change the web page's background colour from the choices given at the top bar of the web page.

Sample Input

Subject Name -> CST232 - Operating System

Recall -> Several algorithms

*First-come, first-served (FCFS)
FIFO

Summary -> FCFS is a straightforward algorithm however does not work well for all programs.

Notes -> Processor Management
Scheduling Algorithms

First-Come, First-Served
Non-preemptive
Job handled based on arrival time
Earlier job arrives, earlier served
Simple algorithm implementation
Uses first-in, first-out (FIFO) queue
Good for batch systems
Unacceptable in interactive systems
Unpredictable turnaround time
Disadvantages
Average turnaround time varies; seldom minimized

Sample Output

29-11-2020 20:22:PM

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Recall:Several algorithms

*First-come, first-served (FCFS)
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Summary:FCFS is a straightforward algorithm however does not work well for all programs.

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Files Attached

The following files will be attached for this assignment

1. Home.php
2. Home.txt
3. Notes.php
4. Notes.txt
5. Class Notes.txt

Home.php and Notes.php are the php files used to run the web page. Class Notes.txt is the text file notes will be stored in.

Source Code

Home.php

```
<!DOCTYPE>
<html>
<head>
<style>
* {      box-sizing: border-box;}

body
{
    font-family: Arial, Helvetica, sans-serif;

/*Styles the themecolour options title, makes the text white and aligns it
to the left with a little indent*/
.textstyle
{
    color:white;
    text-align:Left;
    text-indent: 10px;
}

/*Gives colour to the Header for Home and Notes*/
.topnav
{
    overflow: hidden;
    background-color: #333;

/*Specifies text colour and Header size for the navigation bar*/
.topnav a
{
    float: left;
    color: #f2f2f2;
    text-align: center;
    padding: 14px 16px;
    text-decoration: none;
    font-size: 17px;

/*Shows colour when hovering over the links in the navigation bar*/
.topnav a:hover
{
    background-color: #ddd;
    color: black;

/*Shows which page is currently in use for the navigation bar*/
.topnav a.active
{
    background-color: #4CAF50;
    color: white;
}
```

```

/*Styles the header which has the page name*/
.header
{
    grid-area: header;
    padding: 0.05px;
    text-align: center;
    background: #000000;
    color: white;
}

.grid-container
{
    display: grid;
    grid-template-areas:
        'header header header header header header header header header header header'
        'subject subject subject subject subject subject subject subject subject subject subject'
        'recall notes notes notes notes notes notes notes notes notes notes notes'
        'summary summary summary summary summary summary summary summary summary summary summary';
    grid-column-gap: 10px;
}

.recall,
.notes
{
    padding: 10px;
    height: 300px;
}

.subject
{
    grid-area: subject;
    padding: 10px;
}

.recall
{
    grid-area: recall;
    padding: 10px;
}

.notes
{
    grid-area: notes;
    padding: 10px;
}

.summary
{
    grid-area: summary;
    padding: 10px;
    height: 100px;
}

@media (max-width: 600px)
{
    .grid-container

```

```

        {
            grid-template-areas:
                'header header header header header header header
header header header header'
                'subject subject subject subject subject
subject subject subject subject subject'
                'recall recall recall recall recall recall recall
recall recall recall recall'
                'notes notes notes notes notes notes notes notes
notes notes notes'
                'summary summary summary summary summary
summary summary summary summary summary';
        }
    }

```

textarea

```

{
    box-sizing: border-box;
    border: 1px solid #DDC189;
    border-radius: 3px;
    width: 100%;
    padding: 10px;
    margin: 10px 0;
    outline: none;
    transition: 0.3s;
}

textarea:focus
{
    border-color: Red;
    box-shadow: 0 0 10px 0 Red;
}

```

</style>

<title> Home </title>

</head>

<body

<?php

//to start a session which stores info across multiple pages

session_start();

if(isset(\$_GET['colour']))

{

 \$colour = \$_GET['colour'];

 \$_SESSION['colour']=\$colour;

}

@\$clr_use_session = \$_SESSION['colour'];

echo "bgcolor=\$clr_use_session";

?>

>

<p>

<!-- Styling header of page -->

<div class="header">

 <h1>Home</h1>

</div>

```

        <!-- The links of Home page and Notes page styled with
topnav class -->
        <div class="topnav">
            <a class="active" href="Home.php">Home</a>
            <a href="Notes.php">Notes</a>
        </div>

        <div class="topnav">

        <!-- Theme colour options -->
        <br><div class="textstyle"> Theme Colour Options</div>
        <a href="?colour=white">White</a>
        <a href="?colour=SaddleBrown">Brown</a>

        <a href="?colour=brown">Red</a>
        <a href="?colour=maroon">Maroon</a>
        <a href="?colour=orange">Yellow</a>
        <a href="?colour=DarkCyan">Teal</a>

        <a href="?colour=LightPink">Light Pink</a>
        <a href="?colour=LightCoral">Coral</a>
        <a href="?colour=RosyBrown">Dusty Pink</a>
        </div>

        <!-- Post form is used to take in inputs,there are 4
inputs -->
        <br><form method="post"></br>
        <div class="grid-container">
            <div class="subject">
                Subject Name:<br>
                <textarea name="Atextdata" rows = "1"
cols="20" placeholder="Write subject name here..."></textarea><br>
            </div>
            <div class="recall">
                Recall:<br>
                <textarea name="Btextdata" rows = "15"
cols="20" placeholder="Keywords"></textarea><br>
            </div>
            <div class="notes">
                Notes:<br>
                <textarea name="Dtextdata" rows = "15"
cols="20" placeholder="Notes"></textarea><br>
            </div>
            <div class="summary">
                Summary:<br>
                <textarea name="Ctextdata" rows = "2"
cols="20" placeholder="Write your summary here..."></textarea><br>
            </div>
        </div>

        <!-- This input is a submit type while the rest are
text type -->
        <input type="submit" name="submit">

        </form>

```

```

        </body>
</html>

<?php
//In this php code input from html above is inserted into a texfile of na
Notes.txt
if(isset($_POST['Atextdata']))
{

$Adata=$_POST['Atextdata'];
$Bdata=$_POST['Btextdata'];
$Cdata=$_POST['Ctextdata'];
$Ddata=$_POST['Dtextdata'];

//textfile is opened
$fp = fopen('Class Notes.txt', 'a');

//Data is structured with $txt variable
$txt=$Adata."\n\nRecall:". $Bdata."\n\nSummary:". $Cdata."\n\nNotes:". $Ddata.
"\n\n\n\n";

//A date function is assigned to variable $NoteDate to show current date
and time user submits input
$NoteDate = (new DateTime())->setTimezone(new
DateTimeZone('Asia/Kuala_Lumpur'))->format('d-m-Y H:i:A');
$dxt=$NoteDate."\n\nSubject Name:";

//Data is written into textfile
fwrite($fp, $dxt);
fwrite($fp, $txt);

//textfile is closed
fclose($fp);

}

?>

```

Notes.php

```

<!DOCTYPE>
<html>
<head>
<style>
body
{
    font-family: Arial, Helvetica, sans-serif;
}

/*Styles the themecolour options title, makes the text white and aligns it
to the left with a little indent*/

```



```

.textstyle
{
    color:white;
    text-align:Left;
    text-indent: 10px;
}

/*Styles the header which has the page name*/
.header
{
    padding: 0.05px;
    text-align: center;
    background: #000000;
    color: white;
}

/*Styles the output to have a green glow for border and resizes the output
box*/
iframe
{
    border-color: green;
    box-shadow:0 0 10px 0 green;
    height: 400px;
    width: 100%;
    resize: both;
    overflow: auto;
}

/*Gives colour to the Header for Home and Notes*/
.topnav
{
    overflow: hidden;
    background-color: #333;
}

/*Specifies text colour and Header size for the navigation bar*/
.topnav a
{
    float: left;
    color: #f2f2f2;
    text-align: center;
    padding: 14px 16px;
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/*Shows which page is currently in use for the navigation bar*/
.topnav a.active
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```

```

        background-color: #4CAF50;
        color: white;
    }

</style>
<title> Notes </title>

</head>
<body>
<?php
//to start a session which stores info across multiple pages
session_start();
if(isset($_GET['colour']))
{
    $colour = $_GET['colour'];
    $_SESSION['colour']=$colour;
}

@$clr_use_session = $_SESSION['colour'];
echo "bgcolor=$clr_use_session";

?>
<
    <!-- Styling header of page -->
    <div class="header">
        <h1>Notes</h1>
    </div>

    <!-- The links of Home page and Notes page styled with
topnav class -->
    <div class="topnav">
        <a href="Home.php">Home</a>
        <a class="active" href="Notes.php">Notes</a>
    </div>

    <!-- Theme colour options -->
    <div class="topnav">
<br><div class="textstyle"> Theme Colour Options</div>
        <a href="?colour=white">White</a>
        <a href="?colour=SaddleBrown">Brown</a>

        <a href="?colour=brown">Red</a>
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        <a href="?colour=DarkCyan">Teal</a>

        <a href="?colour=LightPink">Light Pink</a>
        <a href="?colour=LightCoral">Coral</a>
        <a href="?colour=RosyBrown">Dusty Pink</a>

    </div>

```

```
<br></br>

<!-- Used to display output from textfile -->
<iframe id="myframe"></iframe>

<p>Click the button to view all notes.</p>

<button onclick="myFunction()">View Notes</button>

<!-- JS function to open and display text file -->
<script>
function myFunction()
{
    document.getElementById("myframe").src = "Class
Notes.txt";
}
</script>

</body>
</html>
```

Reference

<https://www.w3schools.com/tags/default.asp>

<https://www.w3schools.com/css/default.asp>

<https://www.w3schools.com/php/default.asp>