

OPERATING SYSTEM MINI PROJECT

ONLINE MOVIE TICKET BOOKING

SUBMITTED BY

R DEEPAK KUMAR(2018506026)

B S KANNAN(2018506047)

V PRADEEPAN(2018506079)

CONCEPTS USED IN MINI PROJECT:

- ◆ FCFS
- ◆ PRIORITY SCHEDULING
- ◆ SEMAPHORES

FCFS (FIRST COME FIRST SERVE):

- In this scheduling algorithm, a person is served according to the queue manner.
- The person who arrives first in the queue first buys the ticket and then the next one.
- This will continue until the last person in the queue purchases the ticket.
- Using this algorithm, the CPU process works in a similar manner.

SEMAPHORES:

- In computer science, a semaphore is a variable or abstract data type used to control access to a common resource by multiple processes in concurrent system such as a multitasking operating system.

- A semaphore is simply a variable.
- If two persons want to access the system at the time , deadlock will occur.
- To overcome , this situation semaphores are used.
- In this mini project , deadlocks are handled by semaphores

PRIORITY:

- Priority scheduling is a non-preemptive algorithm and one of the most common scheduling algorithms in batch systems.
- Each process is assigned a priority. Process with highest priority is to be executed first and so on.

- Processes with same priority are executed on first come first served basis.
- In this project, if user wants to access the page , admin have to finish his work.
- So admin gets the priority first.





SOURCE CODE

ABOOK

```
<?php
session_start();

$_SESSION['amov']=$_POST['movie'];
$_SESSION['asea']=$_POST['seat'];

?>
```

```
<html>
<body>
<h2>
<center>
<p>Check your details</p>
<div id="frm">
    <form action="atransact.php" method="POST">
        <p>
            <label>MOVIE :</label>
            <input type="text" name="movie" value="<?php
                echo $_POST['movie'];?>"/>
        </p>
        <p>
            <label>No. of SEAT :</label>
            <input type="text" name="seat" value="<?php
                echo $_POST['seat'];?>"/>
        </p>
        <label>TOTAL COST:</label>
        <?php
            $value=$_POST['seat']*120;
            echo "$value/-";
        ?>
        <input type="submit" id="btn" value="Book.."/>
    </form>
</div>
</body>
<style>
#frm
```

```
{  
    color:yellow;  
    font-size:90%;  
    width:20%;  
    border-radius:5px;  
    margin:100px auto;  
  
    padding:50px;  
}  
#btn  
  
{color:#fff;  
background:#337ab7;  
padding:5px;  
margin-left:69%;  
}  
  
h2{  
color:yellow;  
}  
body{  
background-image:url("4.jpg");  
background-repeat: no-repeat;  
background-size: 1680px 800px;  
}  
</style>  
</html>
```

ADIRECT

```
<?php  
session_start();  
$_SESSION['priority']=0;  
header('location:index.php');  
?>
```

AMOVIE

```
<html>  
<head>  
<body>  
  
<h1>  
<center>  
<p>Welcome!!It's Popcorn Time</p>  
<p>Select the movie and number of seats!!!</p>  
<p>Ticket Cost:120/-  
</p>  
<p>Seats Available:<?php session_start();echo  
$_SESSION['avail_seat'];?>  
</p>  
</center>  
</h1>  
<div id="frm">
```

```
<form action="abook.php" method="POST">
    <label>MOVIE:</label>
    <select name="movie">
<option value="Master">Master</option>
<option value="Soorarai potru">Soorarai
potru</option>
<option value="Poniyin Selvan">Poniyin
Selvan</option>
<option value="KGF-2">KGF-2</option>
<option value="Indian-2">Indian-2</option>
</select>
    <label>SEATS:</label>
    <select name="seat">
<option value="1">1</option>
<option value="2">2</option>
<option value="3">3</option>
<option value="4">4</option>
<option value="5">5</option>
</select>
    <input type="submit" id="submit"
value="Continue.." />

</form>
<a href="update.php">Seats Update</a>
</div>

</body>
<style>
```

```
label{
color:yellow;
}
select{
    width: 100%;
    padding: 12px 20px;
    margin: 8px 0;
    box-sizing: border-box;
}
a
{
color:yellow;
font-size:20px;
}
h1{
color:white;
}
body{
background-image:url("4.jpg");
background-repeat: no-repeat;
background-size: 1620px 960px;
}
```

```
#frm
{
    font-size:90%;
    width:20%;
    border-radius:5px;
    margin:100px auto;
```

```
padding:50px;  
}  
#submit  
{  
color:#fff;  
background:#337ab7;  
padding:10px;  
margin-left:89%;}  
</style>  
</head>  
</html>
```

ATRANSACT

```
<?php  
session_start();  
  
if(!isset($_SESSION['mutex']))  
    {$_SESSION['mutex']=1;  
  
header('location:seat_check.php');}  
  
if($_SESSION['mutex']==1)  
{  
echo "Processing...Please do refresh the  
page";  
}
```

```
else
    header('location:seat_check.php');

?>
```

ATRANSACTION

```
<?php
session_start();
$_SESSION['avail_seat']=$_SESSION['avail_seat']
-$_SESSION['asea'];
$_SESSION['mutex']=0;
$_SESSION['priority']=0;
?>

<html>
<body>
<center>
<h1>Successfully Booked!!!</h1></center>
<div id="middle">
<h2>
<p>-----Booked Details-----</p>

<p>Movie name: <?php echo
$_SESSION['amov'];?></p>
<p>Seats : <?php echo $_SESSION['asea'];?></p>
<p>Cost: <?php echo
$_SESSION['asea']*120;?></p>
```

```
<a href="movie.php"><h5>HOME</h3></a>
</div>

</body>
<style>
body
{
background-image:url("4.jpg");
background-size:1680px 780px;
}
h1{
color:yellow;
}
h5{
color:white;
}
#middle
{
color:yellow;
font-size:90%;
width:20%;
border-radius:5px;
margin:100px auto;
padding:50px;
}
</html>
```

AUNTRANSACTION

```
<?php
session_start();
$_SESSION['mutex']=0;

?>
<html>
<body>
<center>
<h1>Seats are not available on your
request</h1></center>
<div id="middle">
<h2>
<p>remaining seats:
<p><?php echo $_SESSION['avail_seat'];?>
</p>
<a href="adirect.php"><h3>LOGOUT</h3></a>

<a href="amovie.php"><h3>MOVIE</h3></a>
</div>

</body>
<style>
body
```

```
{  
background-image:url("4.jpg");  
background-size:1680px 780px;  
}  
h1{  
color:yellow;  
}  
h5{  
color:white;  
}  
#middle  
{  
color:yellow;  
font-size:90%;  
width:20%;  
border-radius:5px;  
margin:100px auto;  
  
padding:50px;  
}  
</html>
```

BOOK

```
<?php
session_start();

$_SESSION['mov']=$_POST['movie'];
$_SESSION['sea']=$_POST['seat'];

?>

<html>
<body>
<h2>
<center>
<p>Check your details</p>
<div id="frm">
  <form action="transact.php" method="POST">
    <p>
      <label>MOVIE :</label>
      <input type="text" name="movie" value="<?php
echo $_POST['movie'];?>"/>
    </p>
    <p>
      <label>No. of SEAT :</label>
      <input type="text" name="seat" value="<?php
echo $_POST['seat'];?>"/ >
    </p>
    <label>TOTAL COST:</label>
    <?php
$value=$_POST['seat']*120;
echo "$value/-";
```

```
?>
<input type="submit" id="btn" value="Book.."/>
</form>
</div>
</body>
<style>
#frm
{
    color:yellow;
    font-size:90%;
    width:20%;
    border-radius:5px;
    margin:100px auto;

    padding:50px;
}
#btn

{color:#fff;
background:#337ab7;
padding:5px;
margin-left:69%;

}

h2{
color:yellow;
}
body{
background-image:url("4.jpg");
background-repeat: no-repeat;
```

```
background-size: 1680px 800px;  
}  
</style>  
</html>
```

BOOK

```
<?php  
session_start();  
  
if($_SESSION[ 'priority' ]==1)
```

BOOKING

```
<?php  
session_start();  
if($_SESSION[ 'priority' ]==1)
```

DATABASE

```
create database movie;
```

```
use movie;
```

```
create table login(username  
varchar(20),password varchar(20));
```

```
insert into login values("user2","user2");  
insert into login values("user1","user1");  
insert into login values("admin","admin");
```

```
exit;
```

FORMAT

```
body{  
background-image: url("3.jpg");  
background-size: 1620px 960px;  
}  
  
body{  
background-color: black;  
color: white;  
font-family: sans-serif;  
margin: 0;  
padding: 0;  
}
```

```
#frm
{
    font-size:90%;
    width:20%;
    border-radius:5px;
    margin:100px auto;

    padding:50px;
}
#btn

{color:#fff;
background:#337ab7;
padding:5px;
margin-left:69%;
```

INDEX

```
<!DOCTYPE html>
<html>
<head>
<title>ONLINE MOVIE BOOKING</title>
<link rel="stylesheet" type="text/css"
href="format.css">
</head>
<body>
```

```
<h1>
<center><p>Online Movie Booking</p>
</center>
</h1>
<div id="frm">
  <form action="process.php" method="POST">
    <p>
      <label>USERNAME</label>
      <input type="text" id="user" name="user"/>
    </p>
    <p>
      <label>PASSWORD</label>
      <input type="password" id="pass" name="pass"/>
    </p>
    <p>
      <input type="submit" id="btn" value="login"/>
    </p>
  </form>
</div>
</body>
</html>
```

MOVIE

```
<html>
<head>
<body>
```

```
<h1>
<center>
<p>Welcome!!It's Popcorn Time</p>
<p>Select the movie and number of seats!!!</p>
<p>Ticket Cost:120/-<br/>
</p>
<p>Seats Available:<?php session_start();echo
$_SESSION['avail_seat'];?>
</p>
</center>
</h1>
<div id="frm">
  <form action="book.php" method="POST">

    <label>MOVIE:</label><select name="movie">
    <option value="Master">Master</option>
    <option value="Soorarai potru">Soorarai
    potru</option>
    <option value="Poniyin Selvan">Poniyin
    Selvan</option>
    <option value="KGF-2">KGF-2</option>
    <option value="Indian-2">Indian-2</option>
  </select>
  <label>SEATS:</label>
  <select name="seat">
    <option value="1">1</option>
    <option value="2">2</option>
    <option value="3">3</option>
    <option value="4">4</option>
```

```
<option value="5">5</option>
</select>
<input type="submit" id="submit"
value="Continue.." />
</form>
</div>

</body>
<style>
label{
color:yellow;
}
select{
    width: 100%;
    padding: 12px 20px;
    margin: 8px 0;
    box-sizing: border-box;
}

h1{
color:white;
}
body{
background-image:url("4.jpg");
background-repeat: no-repeat;
background-size: 1620px 960px;
}
```

```
#frm
{
    font-size:90%;
    width:20%;
    border-radius:5px;
    margin:100px auto;

    padding:50px;
}
#submit
{
    color:#fff;
    background:#337ab7;
    padding:10px;
    margin-left:89%;}

</style>
</head>
</html>
```

PRIORITY

```
<?php
session_start();
```

```
if(!isset($_SESSION['priority'])  
{  
    header('location:transact.php');  
}  
else  
echo "wait and reload the page";  
?>
```

PROCESS

```
<?php  
session_start();  
if(!isset($_SESSION['check']))  
{    $_SESSION['check']=0;  
    $_SESSION['avail_seat']=3;  
    $_SESSION['mutex'];  
  
}  
$username=$_POST['user'];  
$password=$_POST['pass'];  
  
$link=mysqli_connect("localhost","root","",""  
"movie");
```

```
$result=mysqli_query($link,"select * from
login where username='$username' and
password='$password' ");
$row= mysqli_fetch_array($result);

if($row[ 'username ']==$username &&
$row[ 'password ']==$password)
{
    if($_SESSION[ 'avail_seat']==0 ||

$_SESSION[ 'avail_seat']<0)
    {
        echo"SORRY ALL SEATS ARE BOOKED";
    }
    if($username=="admin"){
        $_SESSION[ 'priority']=1;
        header('location:amovie.php');
    }
}

else
    header('location:movie.php');

}

else          //incorrect username.
echo"failed to login";
```

?>

SEAT CHECK

```
<?php
session_start();
$_SESSION['avail_seat']=$default=$_SESSION['avail_seat'];
if($_SESSION['priority']==1)
$_SESSION['avail_seat']= $_SESSION['avail_se
at']-$_SESSION['asea'];
else
$_SESSION['avail_seat']= $_SESSION['avail_se
at']-$_SESSION['sea'];
if($_SESSION['avail_seat']<0)
{$_SESSION['avail_seat']=$default;
 if($_SESSION['priority']==1)

header('location:auntransaction.php');
else

header('location:untransaction.php');
```

```
}

else
{
    if($_SESSION['priority']==0)
        header('location:transaction.php');
    else
        header('location:atransaction.php');
}?>
```

TRANSAC

```
<?php
session_start();

if($_SESSION['priority']==0)
{
if(!isset($_SESSION['mutex']))
    {$_SESSION['mutex']=1;

header('location:seat_check.php');}

if($_SESSION['mutex']==1)
```

```

{
echo "Processing...Please do refresh the
page";
}
else
    header('location:seat_check.php');
}
else
echo"reload the page";
?>

```

TRANSACTION

```

<?php
session_start();
$_SESSION['mutex']=0;
$_SESSION['priority']=0;
?>
<html>
<body>
<center>
<h1>Successfully Booked!!!</h1></center>
<div id="middle">
<h2>
<p>-----Booked Details-----</p>

```

```
<p>Movie name: <?php echo  
$_SESSION['mov'];?></p>  
<p>Seats : <?php echo $_SESSION['sea'];?></p>  
<p>Cost: <?php echo  
$_SESSION['sea']*120;?></p>  
<a href="movie.php"><h5>HOME</h3></a>  
</div>
```

```
</body>  
<style>  
body  
{  
background-image:url("4.jpg");  
background-size:1680px 780px;  
}  
h1{  
color:yellow;  
}  
h5{  
color:white;  
}  
#middle  
{  
color:yellow;  
font-size:90%;  
width:20%;  
border-radius:5px;  
margin:100px auto;
```

```
padding:50px;  
}  
</html>
```

UNSET

```
<?php  
session_start();  
$_SESSION['mutex']=0;  
?>
```

UNTRANSACTION

```
<?php  
session_start();  
$_SESSION['mutex']=0;  
?>  
<html>  
<body>  
<center>  
<h1>Seats are not available on your  
request</h1></center>
```

```
<div id="middle">
<h2>
<p>remaining seats:
<p><?php echo $_SESSION['avail_seat'];?>
</p>
<a href="index.php"><h5>LOGOUT</h3></a>

<a href="movie.php"><h5>MOVIE</h3></a>
</div>

</body>
<style>
body
{
background-image:url("4.jpg");
background-size:1680px 780px;
}
h1{
color:yellow;
}
h5{
color:white;
}
#middle
{
color:yellow;
font-size:90%;
width:20%;
border-radius:5px;
```

```
margin:100px auto;  
  
padding:50px;  
  
}  
</html>
```

UPDATE

```
<?php  
session_start();  
?>  
<html>  
<body>  
<h2>  
<center>  
<p>Check your details</p>  
<div id="frm">  
    <form action="useat.php" method="POST">  
        <p>  
            <label>ENTER No. OF SEATS :</label>  
        <input type="text" name="nseat">  
    </p>  
    <input type="submit" id="btn"  
    value="update.."/>
```

```
</form>
</div>
</body>
<style>
#frm
{
    color:yellow;
    font-size:90%;
    width:20%;
    border-radius:5px;
    margin:100px auto;

    padding:50px;
}
#btn

{color:#fff;
background:#337ab7;
padding:5px;
margin-left:69%;

}

h2{
color:yellow;
}
body{
background-image:url("4.jpg");
background-repeat: no-repeat;
background-size: 1680px 800px;
}
```

```
</style>
</html>
```

UNSEAT

```
<?php
session_start();
$_SESSION[ 'avail_seat' ]=$_POST[ 'nseat' ];
header( 'location:index.php' )
?>
```

OUTPUT







