

References.

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Appendix A. - Full code of the system

```
<script type="text/javascript">
  $(document).ready(function() {
```

Fills the data grid of the page

```
    QS_Table = "select * from agri_db.9users";
    DGrid_Filler(QS_Table); });
```

Fills the combo box with relevant data and finishes the page rendering function Finish()

```
{
    QStr_Combo = "SELECT User_No, User_Name FROM agri_db.9users";
    C_Filler(QStr_Combo, '#ID_Field6');
    C_Filler(QStr_Combo, '#ID_Field8');
    $('#mytable td:nth-child(4), #mytable th:nth-child(4)').hide();
}
```

Gets the Data In the text boxes to send in the post

function Str_Getter(Key)

```
{
    //alert(Key);
    if(Key == "I")
    {
        //P_Str = $("#login_form").serialize();
        P_Str = "ID_Field1=" + $("#ID_Field1").val();
        P_Str = P_Str+"&ID_Field2=" + $("#ID_Field2").val();
        P_Str = P_Str+"&ID_Field3=" + $("#ID_Field3").val();
        P_Str = P_Str+"&ID_Field4=" + $("#ID_Field4").val();
        P_Str = P_Str+"&ID_Field5=" + $("#ID_Field5").val();
        P_Str = P_Str+"&ID_Field6=" + $("#ID_Field6").val();
    }
    else if (Key == "U")
    {
        P_Str = "ID_Field1=" + $("#ID_Field1").val();
        P_Str = P_Str+"&ID_Field2=" + $("#ID_Field2").val();
        P_Str = P_Str+"&ID_Field3=" + $("#ID_Field3").val();
        P_Str = P_Str+"&ID_Field4=" + $("#ID_Field4").val();
        P_Str = P_Str+"&ID_Field5=" + $("#ID_Field5").val();
        P_Str = P_Str+"&ID_Field8=" + $("#ID_Field8").val();
    }
    else
    {
        P_Str = "ID_Field1=" + $("#ID_Field1").val();
    }
}
```

```

return (P_Str);
}
</script>

```

Dive Containing the Form Elements

```

<div id="ID_Form" >
<form action="" method="post" id="login_form">
<table id="tbform" style="background-color:#AAE593;" width="500" border="0">
<tr>
<td height="34">&nbsp;</td>
<td>&nbsp;</td>
<td>&nbsp;</td>
</tr>
<tr>
<td width="31">&nbsp;</td>
<td width="142">User ID</td>
<td width="313"><input name="ID_Field1" type="text" id="ID_Field1" size="30"
/></td>
</tr>
<tr>
<td>&nbsp;</td>
<td>User Name</td>
<td><input name="ID_Field2" type="text" id="ID_Field2" size="30" /></td>
</tr>
<tr>
<td>&nbsp;</td>
<td>User Log Name</td>
<td><input name="ID_Field3" type="text" id="ID_Field3" size="30" /></td>
</tr>
<tr>
<td>&nbsp;</td>
<td><label for="ID_Field4">User Password</label></td>
<td><input name="ID_Field4" type="password" id="ID_Field4" size="30" /></td>
</tr>
<tr>
<td>&nbsp;</td>
<td><label for="ID_Field4_ReCheck">Conferm Password</label></td>
<td><input name="ID_Field4_ReCheck" type="password" id="ID_Field4_ReCheck"
size="30" />
</td>
</tr>
<tr>
<td>&nbsp;</td>
<td>Authority Level</td>
<td><select id="ID_Field5" name="ID_Field5" >
<option value="0">- Select a Value -</option>

```



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```

        <option value="Administrator">Administrator</option>
        <option value="DataEntryOperator">DataEntryOperator</option>
        <option value="ReportViewer">ReportViewer</option>
    </select></td>
</tr>
<tr>
    <td>&nbsp;</td>
    <td>User Entered</td>
    <td><select id="ID_Field6" name="ID_Field6" >
    </select></td>
</tr>
<tr>
    <td>&nbsp;</td>
    <td>User Edited</td>
    <td><select id="ID_Field8" name="ID_Field8" >
    </select></td>
</tr>
<tr>
    <td colspan="3"><table width="504" border="0" align="left" style="background-
color:#AAE593" ;width="500">
    <tr>
    <td width="21" height="58"><p>&nbsp;</p></td>
    <td width="61" align="center" valign="middle"><button name="ID_Submit"
id="ID_Submit" value="Enter" >New</button></td>
    <td width="58" align="center" valign="middle"><button name="ID_Submit1"
id="ID_Submit1" value="Edit" >Edit</button></td>
    <td width="64" align="center" valign="middle"><button name="ID_Submit2"
id="ID_Submit2" value="Delete" >Delete</button></td>
    <td width="80" align="center" valign="middle"><button name="ID_Submit3"
id="ID_Submit3" value="Clear" > Clear</button></td>
    <td width="62">&nbsp;</td>
    <td width="62">&nbsp;</td>
    <td width="62" align="center"><button name="ID_EXIT_page" id="ID_EXIT_page"
value="ID_EXIT_page" >EXIT</button></td>
    </tr>
</table></td>
    </tr>
</table>
</form>
</div>
<div id="Id_Div_Table" style="background-color:#9F925B" width="100%"
height="100"></div>

```

JQuery Ajax cord Fills the table form the data sent by the Data_Table.php

```
function DGrid_Filler(QString)
```

```

{QryString ="Qry="+QString;
$.ajax({
type: "POST",
url: "/Agriculture_System/PhpScripts/DBManagement/Data_Table.php",
data: QryString,
dataType: "html",
success: function(data)
{var T_String = String(data);
$('#Id_Div_Table').empty();
$('#Id_Div_Table').append(T_String);
//$("#Id_Div_Table").eq(0).tableFilter();
Finish();}});}

```

JQuery Ajax cord that sends data to the sp and gets the new data tabel.php

```

function SP_Caller(SP_Str,Mark,QString)
{
P_Str = Str_Getter(Mark);
P_Str = P_Str+"&SPName="+SP_Str+"&SelectQ="+QString;
$.ajax({
type: "POST",
url: "/Agriculture_System/PhpScripts/DBManagement/Run_SP_I&U.php",
data: P_Str,
dataType: "html",
success: function(Data)
{var T_String = String(Data);
$('#Id_Div_Table').empty();
$('#Id_Div_Table').append(T_String);
Finish();
//$("#Id_Div_Table").eq(0).tableFilter();
}})}

```

PHP Cord That Processes the post request

```

<?php
include_once("DBAccess.php");
$args = array();
$i=0;
foreach($_POST as $key=>$value)
{
    $args[$i] = trim($_POST[$key]);
    $i++; }

$DBObj = new DBAccess();
$query_string = $args[0];
$DBObj->ReturnDataTable($query_string);

```

?>

PHP Cord That Processes the fill Combo request

```
<?php
include_once("DBAccess.php");
$Args = array();
//Capture the POST Event and Call the SP
//echo (" InSide PHP Fill Combo");
//Get the values form the POST Array to a Array
$i=0;
foreach($_POST as $key=>$value)
{
    $Args[$i] = trim($_POST[$key]);
    //echo $Args[$i];
    $i++; }

$DBObj = new DBAccess();
$query_String = $Args[0];
//echo $Args[0];
$DBObj->ReturnCombo($query_String);
?>
```

PHP Cord That Processes SP call request

```
<?php
include_once("DBAccess.php");
$SP_Name = "";
$Args = array();
$QStr = "";
//Capture the POST Event and Call the SP
//Get the values form the POST Array to a Array
$i=0;
foreach($_POST as $key=>$value)
{
    if ((sizeof($_POST)-2) == $i )
    {
        $SP_Name = trim($_POST[$key]);
        //echo(sizeof($_POST));
        //echo($i);
    }
    else if ((sizeof($_POST)-1) == $i)
    {
        $query_String = trim($_POST[$key]);
    }
    else
```



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```

{
    $Args[$i] = trim($_POST[$key]);
    $QStr = $QStr.$Args[$i];
    //echo($Args[$i]);
}
    $i++; }
echo $QStr;
$DDBObj = new DBAccess();
$DDBObj->SP_Execute($SP_Name,$Args);
$DDBObj->ReturnDataTable($Query_String);
?>

```

PHP Cord That Processes the New ID

```

<?php
include_once("DBAccess.php");
$SP_Name = "";
$Args = array();
$QStr = "";
$FirstID = "";
$Brk_PT = "";
$Heder = "";
$Zeeros = 0;
//Capture the POST Event and Call the SP
//Get the values form the POST Array to a Array
$i=0;
foreach($_POST as $key=>$value)
{
    $Args[$i] = trim($_POST[$key]);
    //echo "</br> -> " .($Args[$i])."</br>";

    $i++; }
$QStr = $Args[0];
$FirstID = $Args[1];
$Brk_PT = $Args[2];
$Heder = $Args[3];
$Zeeros = $Args[4];
/*echo $QStr;
echo $FirstID;
echo $Brk_PT;
echo $Heder;
echo $Zeeros;*/
$DDBObj = new DBAccess();
$resut = $DDBObj->ReturnDataSet($QStr);
while($row = mysql_fetch_row($resut))
{
    foreach($row as $_column)

```

```

{
$LVal = $_column;
}
}
mGetNewID($LVal,$FirstID,$Brk_PT,$Heder,$Zeros);
function mGetNewID($LVal,$FirstID,$Brk_PT,$Heder,$Zeros)
{
    if ($LVal=="")
    {
        $NewID = $FirstID;
    }
    else
    {
        /*echo $LVal."<br/>";
        echo $FirstID."<br/>";
        echo $Brk_PT."<br/>";
        echo $Heder."<br/>";
        echo $Zeros."<br/>";*/
        $header = substr($FirstID, 0, $Brk_PT);
        $NewNo = substr($LVal,$Brk_PT,strlen($LVal));
        $NewNo++;
        //echo $NewNo."<br/>";
        $NewID = $header = substr($FirstID, 0,
$Brk_PT).str_pad($NewNo,$Zeros,"0",STR_PAD_LEFT);
        //echo $NewNo;
        //$NewID = substr($LVal, 0,
$Brk_PT)."".str_pad((substr($LVal,$Brk_PT,strlen($LVal))+),$Zeros,"0",
STR_PAD_LEFT);
    }
    echo $NewID;
}
}

```

DB Access Class

```

<?php
class DBAccess
{
    var $host='localhost';
    var $user='root';
    var $pass="";
    var $dbname='agri_db';
    function SP_Execute($SP_Name , $Values)
    {
        //Create PDO Object with the DB Conectivity
        $pdo = new PDO('mysql:dbname='.$this->dbname.;host='.$this->host,$this->user,$this->pass);
    }
}

```

```

// echo "<br/>";
// echo $$SP_Name;
//Create the SP Statement
    $$SPProcedure = "CALL ".$SP_Name."(";
    for ($i = 0 ; $i < count($Values); $i++)
        { if($i != count($Values)-1)
            { $$SPProcedure = $$SPProcedure.":Par".($i+1).";";}
            else
            { $$SPProcedure = $$SPProcedure.":Par".($i+1);}}
        $$SPProcedure = $$SPProcedure.");";
//Create the SP Statement
//echo "<br/>";
// echo $$SPProcedure;
    $stmt = $pdo->prepare($$SPProcedure);
//Bind The Values to SP
    for ($i = 0 ; $i < count($Values); $i++)
        {
            //echo "<br/>***** Adding Params --->".$Values[$i];
            $stmt->bindParam(":Par".($i+1) ,$Values[$i]);
        }
//Execute SP Statement
    $stmt->execute();}

```


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```

function ReturnDataTable ($Query_String)
{
//connecting with the database
$connection = mysql_connect($this->host,$this->user,$this->pass);
if (!$connection) { die('Could not connect to database : ' . mysql_error());}
//select the database name
mysql_select_db($this->dbname);
$result = mysql_query($Query_String) or die(mysql_error());
// Print the column names as the headers of a table
$T_String = "<table id=\"mytable\" border=1 height=20 align=left> <thead
id='idtherder'>";
for($i = 0; $i < mysql_num_fields($result); $i++) {
    $field_info = mysql_fetch_field($result, $i);
    $T_String.= "<th>{$field_info->name}</th>";
}
$T_String.= "</thead>";
$T_String.= "<tbody>";
while($row = mysql_fetch_row($result))
{$T_String.= "<tr height=20>";
foreach($row as $_column) {
    $T_String.= "<td>{$_column}</td>";}
$T_String.= "</tr>"; }
}

```

```

$T_String = "</tbody>";
$T_String = "</table>";
echo $T_String;
}
function ReturnDataSet ($Query_String)
{
//connecting with the database
$conn = mysql_connect($this->host,$this->user,$this->pass);
//check the connection
if (!$conn) {
die('Could not connect to database : ' . mysql_error());
}
//select the database name
mysql_select_db($this->dbname);
$result = mysql_query($Query_String) or die(mysql_error());
// Print the column names as the headers of a table
return $result;
}
function ReturnCombo ($Query_String)
{
$conn = mysql_connect($this->host,$this->user,$this->pass);
//check the connection
if (!$conn) {
//if connection is not succeeded return an error message
die('Could not connect to database : ' . mysql_error());
}
//select the database name
mysql_select_db($this->dbname);
$result = mysql_query($Query_String) or die(mysql_error());
$ComboString = "<option value='0'> - Select a Value -</option>";
while($row = mysql_fetch_row($result)) {
$col=1;
foreach($row as $_column) {
if($col==1){
$ComboString = "<option value='".$_column.">";
$col++;
}
else
{
$ComboString .= $_column."</option>";
}
}
}
echo $ComboString;
}
}??>

```

Appendix B – Activity diagram of the system

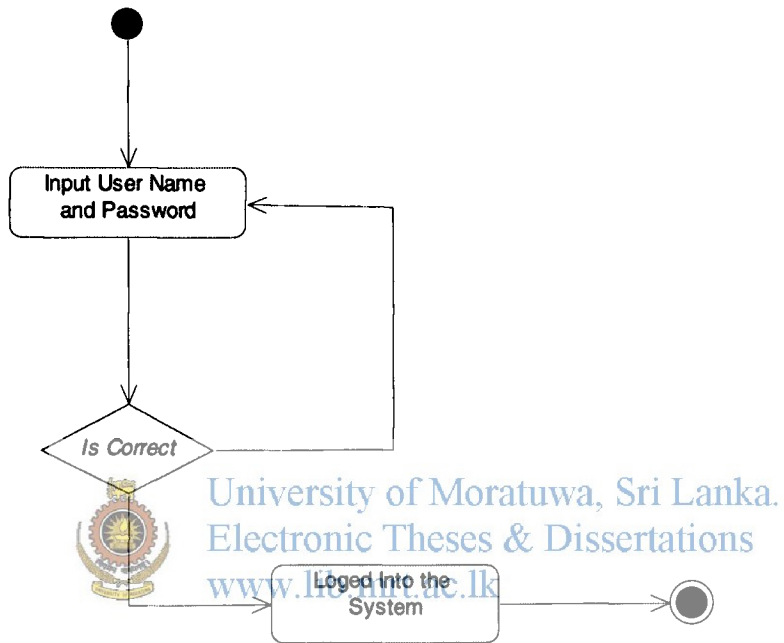


Figure 5.4: Activity diagram for login function.

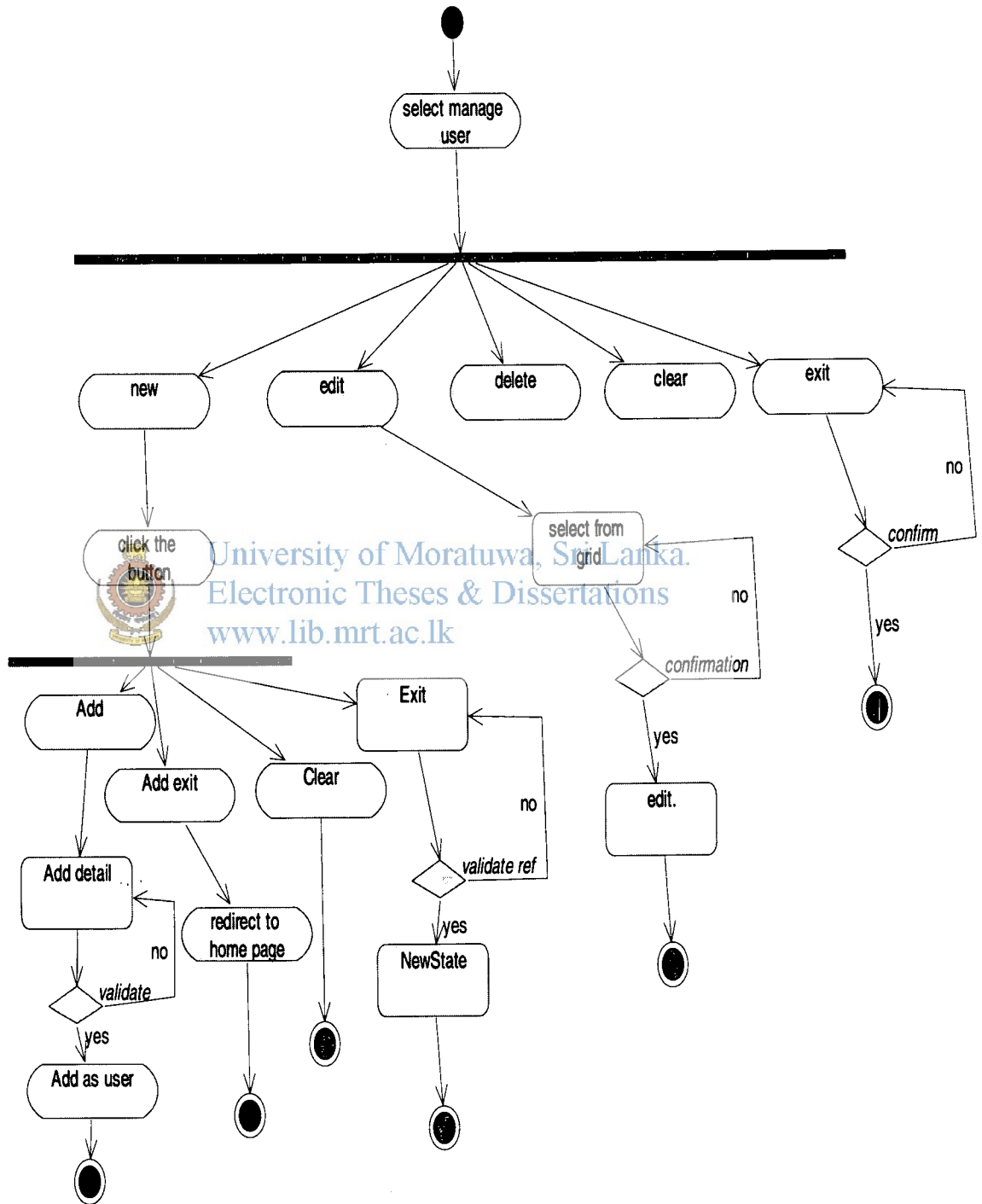


Figure 5.5: Activity diagram for manage users function.

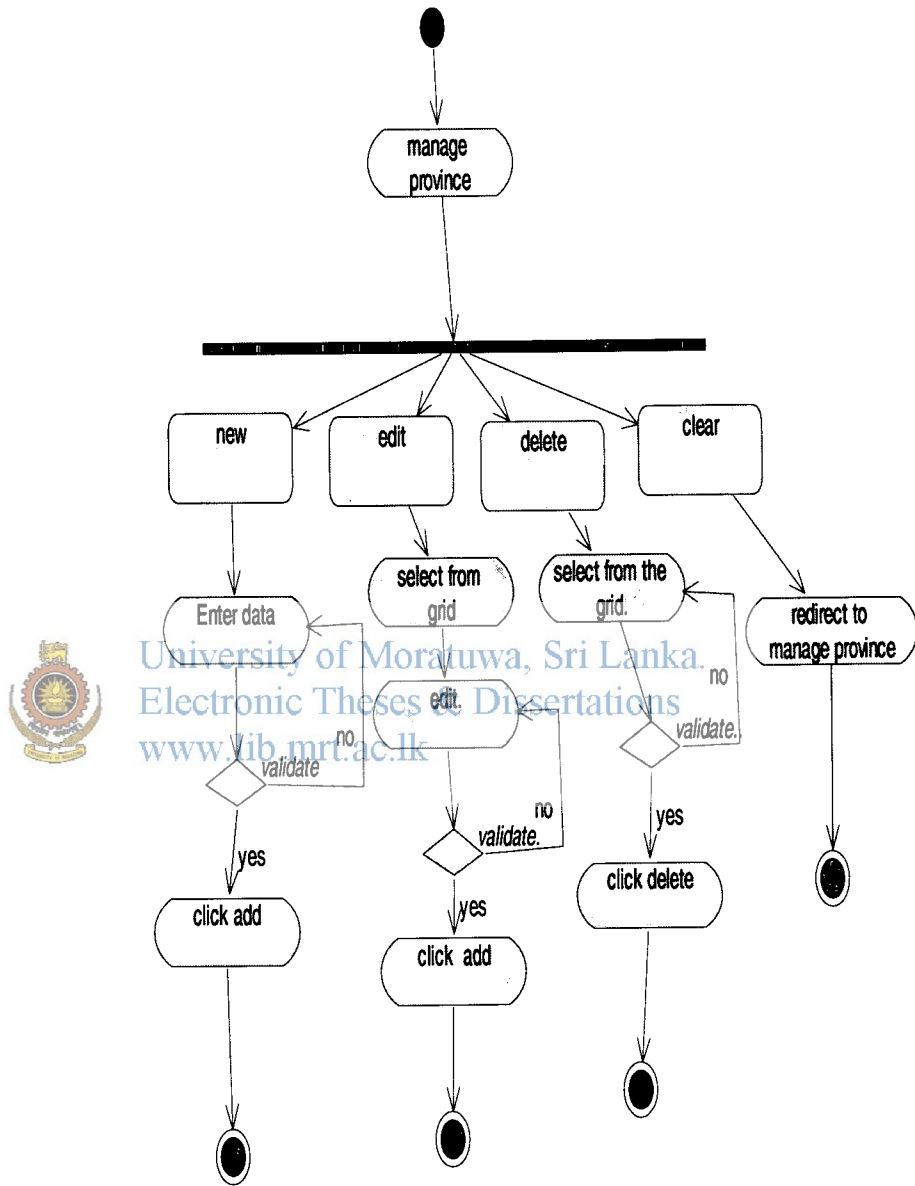


Figure 5.6: Activity diagram for manage province function.

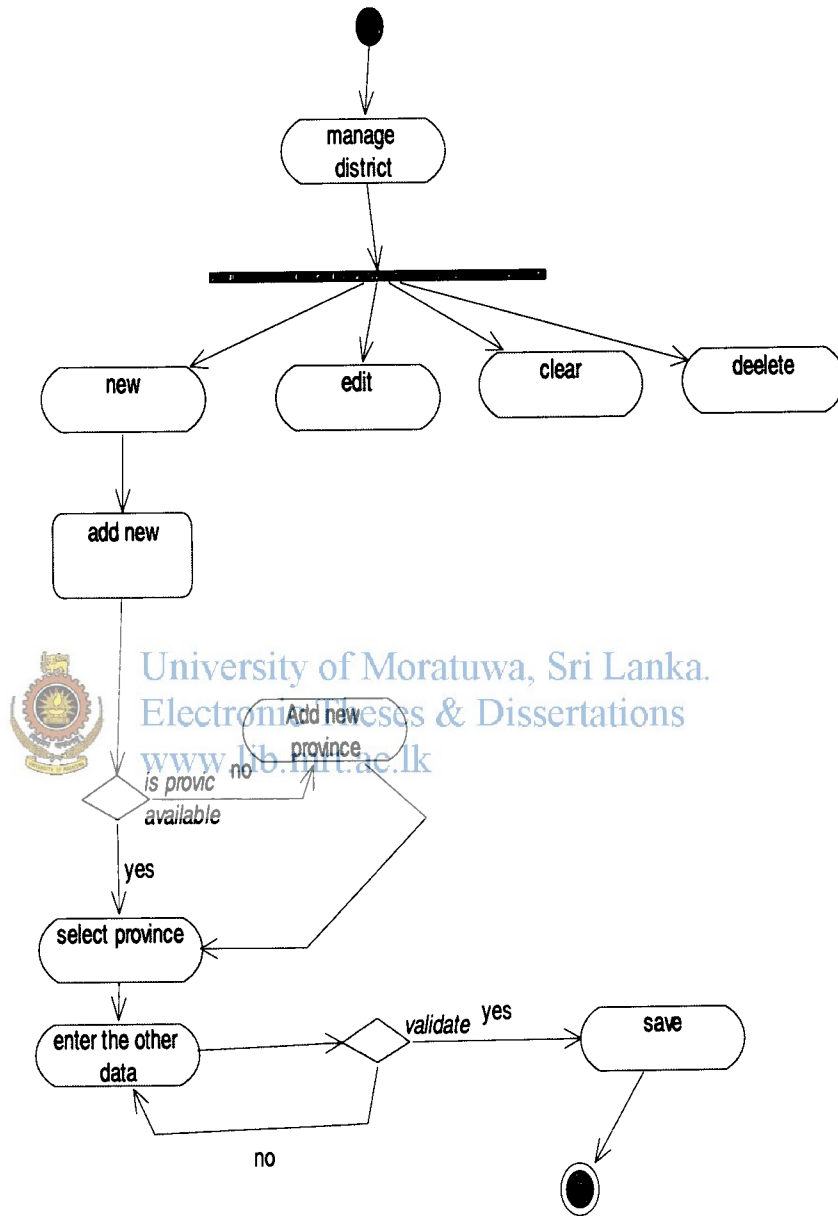


Figure 5.7: Activity diagram for manage district function

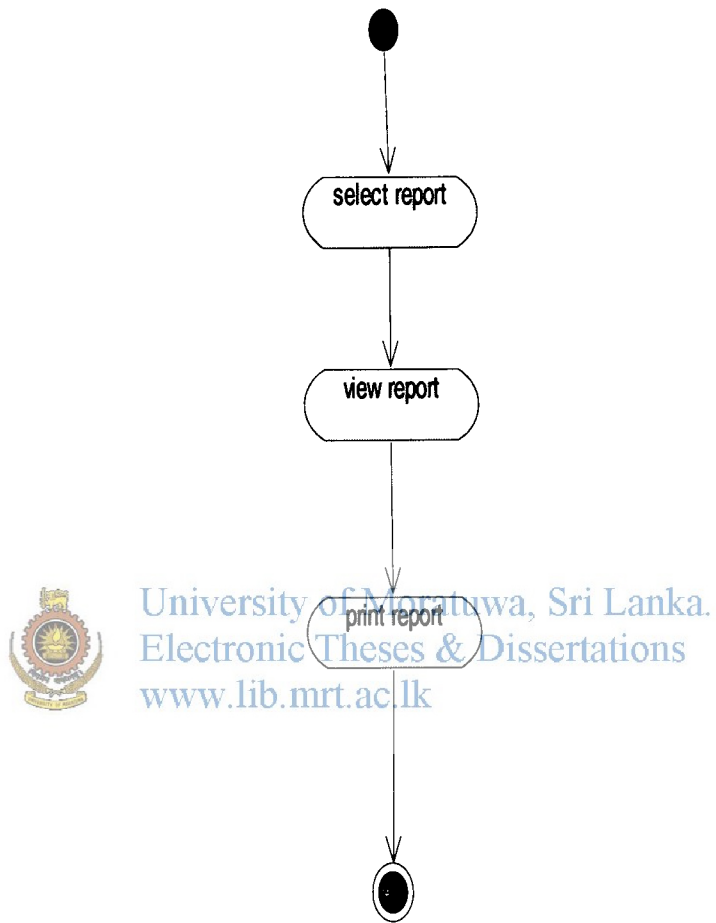


Figure 5.8: Activity diagram for getting report function.



