

UNISA Login Code - C# Backend

This screenshot shows the Visual Studio IDE interface with the following details:

- Title Bar:** UNISA Exam Portal
- Toolbars:** Standard, Debug, Attach to Unity, Live Share.
- Code Editor:** Student.cs, DatabaseBackUp.cs, UNISALogin.cs (active), UNISA_Portal.cs. The UNISALogin.cs file contains C# code for a MonoBehaviour script named UNISALogin.
- Solution Explorer:** Shows 'Assembly-CSharp' with files Student.cs, DatabaseBackUp.cs, UNISALogin.cs, and UNISA_Portal.cs.
- Properties Window:** Hosted.
- Task List:** No issues found.
- Toolbox:** Standard .NET components.
- Status Bar:** 78%, Ln: 18 Ch: 28 SPC CRLF.
- Message Center:** Visual Studio 2019 update: Version 16.10.4 is downloaded and ready to install. View details.
- Taskbar:** Ready, Paint, and other system icons.

This screenshot shows the Visual Studio IDE interface with the following details:

- Title Bar:** UNISA Exam Portal
- Toolbars:** Standard, Debug, Attach to Unity, Live Share.
- Code Editor:** Student.cs, DatabaseBackUp.cs, UNISALogin.cs (active), UNISA_Portal.cs. The UNISALogin.cs file contains C# code for a MonoBehaviour script named UNISALogin.
- Solution Explorer:** Shows 'Assembly-CSharp' with files Student.cs, DatabaseBackUp.cs, UNISALogin.cs, and UNISA_Portal.cs.
- Properties Window:** Hosted.
- Task List:** No issues found.
- Toolbox:** Standard .NET components.
- Status Bar:** 78%, Ln: 18 Ch: 28 SPC CRLF.
- Message Center:** Visual Studio 2019 update: Version 16.10.4 is downloaded and ready to install. View details.
- Taskbar:** Ready, Paint, and other system icons.

Visual Studio stopped responding for 135 seconds. Disabling the extension Visual Studio 2019 Tools for Unity 4.7.1.0 might help. [Disable this extension](#) [Manage performance](#) [Don't report this extension again](#)

Assembly-CSharp

```
40     IEnumerator CrtSignIn()
41     {
42         WebForm wWebForm = new WebForm();
43
44         int charNum = userName.text.Length;
45         wWebForm.AddField("Username", userName.text);
46         wWebForm.AddField("Password", password.text);
47         wWebForm.AddField("CharNum", charNum);
48
49         //create functions on the php. over here, have a local num ranging from a couple of letters. after request, on php's side, it reads the number and runs functions based on that.
50         //or utilize multiple phps. that works too.
51
52         //PHPs, login, uploadfunc, uploadfill-in, upload, deleterecord, updaterecord, addrecord
53         UnityWebRequest www = UnityWebRequest.Post("http://localhost/UNISAPortal/SignIn.php", wWebForm);
54
55         yield return www.SendWebRequest();
56
57         Debug.Log(www.downloadHandler.text);
58         // Debug.Log(www.downloadHandler.text.Split("*")[1]);
59
60         if (www.downloadHandler.text == "noEntry")//No entry
61         {
62             userNameError.gameObject.SetActive(true);
63             userNameError.text = "Username invalid. Please enter credentials";
64         }
65         else if(www.downloadHandler.text == "noUser")//Wrong username
66         {
67             userNameError.gameObject.SetActive(true);
68             userNameError.text = "Username doesn't exist. Try again";
69         }
70         else if (www.downloadHandler.text == "wrongPass")//Wrong password
71         {
72             passwordError.gameObject.SetActive(true);
73         }
74         else if (www.downloadHandler.text.Split("*")[0] == "rightPass")//User can now login
75         {
76             welcome.text = "Welcome";
77             if (charNum == 27)//student Logged in
78             {
79                 userMain.text = (www.downloadHandler.text.Split("*")[1]);
80                 student.SetActive(true);
81                 student.GetComponent<student>().FillInfo(www.downloadHandler.text);
82             }
83             else if (charNum == 22)//lecturer Logged in
84             {
85                 userMain.text = "Lecturer";
86             }
87             else //host Logged in
88             {
89                 userMain.text = "Host";
90             }
91         }
92     }
93 }
```

No issues found

'dateChoiceName' references

Entire Solution

Code

Assembly-CSharp (3)

- string UNISA_Portal.dateChoiceName (3)
 - dateChoiceName = dropDown.options[dropDown.value].text;
 - string date = dateChoiceName;
 - dispText.text = dateChoiceName;

UNISA_Portal.cs

UNISA_Portal.cs

UNISA_Portal.cs

Search Find All References

File Line Col Project Kind

View details

Untitled - Paint

Add to Source Control

11:51 2021/07/22

Visual Studio stopped responding for 135 seconds. Disabling the extension Visual Studio 2019 Tools for Unity 4.7.1.0 might help. [Disable this extension](#) [Manage performance](#) [Don't report this extension again](#)

Assembly-CSharp

```
40     IEnumerator CrtSignIn()
41     {
42         WebForm wWebForm = new WebForm();
43
44         int charNum = userName.text.Length;
45         wWebForm.AddField("Username", userName.text);
46         wWebForm.AddField("Password", password.text);
47         wWebForm.AddField("CharNum", charNum);
48
49         //create functions on the php. over here, have a local num ranging from a couple of letters. after request, on php's side, it reads the number and runs functions based on that.
50         //or utilize multiple phps. that works too.
51
52         //PHPs, login, uploadfunc, uploadfill-in, upload, deleterecord, updaterecord, addrecord
53         UnityWebRequest www = UnityWebRequest.Post("http://localhost/UNISAPortal/SignIn.php", wWebForm);
54
55         yield return www.SendWebRequest();
56
57         Debug.Log(www.downloadHandler.text);
58         // Debug.Log(www.downloadHandler.text.Split("*")[1]);
59
60         if (www.downloadHandler.text == "noEntry")//No entry
61         {
62             userNameError.gameObject.SetActive(true);
63             userNameError.text = "Username invalid. Please enter credentials";
64         }
65         else if(www.downloadHandler.text == "noUser")//Wrong username
66         {
67             userNameError.gameObject.SetActive(true);
68             userNameError.text = "Username doesn't exist. Try again";
69         }
70         else if (www.downloadHandler.text == "wrongPass")//Wrong password
71         {
72             passwordError.gameObject.SetActive(true);
73         }
74         else if (www.downloadHandler.text.Split("*")[0] == "rightPass")//User can now login
75         {
76             welcome.text = "Welcome";
77             if (charNum == 27)//student Logged in
78             {
79                 userMain.text = (www.downloadHandler.text.Split("*")[1]);
80                 student.SetActive(true);
81                 student.GetComponent<student>().FillInfo(www.downloadHandler.text);
82             }
83             else if (charNum == 22)//lecturer Logged in
84             {
85                 userMain.text = "Lecturer";
86             }
87             else //host Logged in
88             {
89                 userMain.text = "Host";
90             }
91         }
92     }
93 }
```

No issues found

'dateChoiceName' references

Entire Solution

Code

Assembly-CSharp (3)

- string UNISA_Portal.dateChoiceName (3)
 - dateChoiceName = dropDown.options[dropDown.value].text;
 - string date = dateChoiceName;
 - dispText.text = dateChoiceName;

UNISA_Portal.cs

UNISA_Portal.cs

UNISA_Portal.cs

Search Find All References

File Line Col Project Kind

View details

Untitled - Paint

Add to Source Control

11:52 2021/07/22

A screenshot of the Visual Studio 2019 IDE interface. The top menu bar includes File, Edit, View, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help, and Search (Ctrl+Q). The title bar shows "UNISA Exam Portal". The main window displays the code editor with four tabs: Student.cs, DatabaseBackUp.cs, UNISALogin.cs (selected), and UNISA_Portal.cs. The UNISALogin.cs tab contains C# code for handling user login logic. Below the code editor is the Task List, which shows references for 'dateChoiceName' across three files: UNISA_Portal.cs. A status bar at the bottom indicates "Ready", shows system icons, and displays the date and time as "2021/07/22 11:52". A notification bubble in the bottom right corner informs the user that "Visual Studio 2019 update Version 16.10.4 is downloaded and ready to install.".

UNISA Login Code – PHP Backend

The screenshot shows the UNISAPortal project in NetBeans IDE 8.0.2. The main window displays a PHP file named `online_restore.php`. The code implements a student login validation process. It first checks if the student number is valid (between 0 and 27). If invalid, it echoes 'noEntry'. If valid, it performs a MySQL query to find the student by their number. If no such student exists, it echoes 'noUser'. Otherwise, it fetches the student's details from the database.

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
$database = "unisaportal";

$connect = mysqli_connect($servername, $username, $password, $database);

//For student login
$username = $_POST["Username"];
$password = $_POST["Password"];
$count = $_POST["ChxNum"];
$valid = 0;

if($count == 0 || $count < 10 || $count > 27) {
    echo 'noEntry';
}

if($count == 27) //for student login
{
    $valid = 1;
    $sqlQuery = "select * from student WHERE Stu_Mail = '" . $username . "'";
    $sqlResult = mysqli_query($connect, $sqlQuery);

    if(mysqli_num_rows($sqlResult) == 0) {//no such student number exists
        echo 'noUser';
    }
    else {
        //$_RetVal = mysqli_fetch_array($sqlResult);
        $RetVal = mysqli_fetch_assoc($sqlResult);
    }
}
```

UNISAPortal - NetBeans IDE 8.0.2

File Edit View Navigate Source Refactor Run Debug Team Tools Window Help

Search (Ctrl+F)

Source History

```
25     echo 'noUser';
26 }
27 else {
28     //SreturnVal = mysqli_fetch_array($sqlResult);
29     $returnVal = mysqli_fetch_assoc($sqlResult);
30
31     $pass = $returnVal["Password"];
32     if($pass != $password) //incorrect password
33         echo 'wrongPass';
34     }
35 else //Correct username and password
36     $sqlScript = "rightPass' . '*' . $returnVal["Stu_Name"] . '*' . '*';
37
38
39     $totQuery = "select count(*) from enroll WHERE Stu_Mail = '" . $username . "'"; 
40     $totRows = mysqli_query($connect, $totQuery);
41     $returnVal = mysqli_fetch_assoc($totRows);
42     $totNum = $returnVal["count(*)"];
43
44     for ($i=0; $i<$totNum; $i++) {
45         $sqlQuery = "SELECT * FROM `enroll` WHERE `Stu_Mail` = '" . $username . "' ORDER BY Stu_Mail DESC LIMIT 1 OFFSET " . $i;
46         $sqlResult = mysqli_query($connect, $sqlQuery);
47         $returnVal = mysqli_fetch_assoc($sqlResult);
48         $sqlArray[$i] = $returnVal["Mod_Code"];
49     }
50
51     $count = count($sqlArray);
52     for ($i=0; $i<$count-1; $i++) {
53         $sqlQuery = "SELECT * FROM `exam` WHERE `Mod_Code` = '" . $sqlArray[$i] . "'";
```

Filters: Find: echo Previous Next INS 7 matches 11:54 ENG 2021/07/22

UNISAPortal - NetBeans IDE 8.0.2

The screenshot shows the NetBeans IDE interface with the title bar "UNISAPortal - NetBeans IDE 8.0.2". The main window displays a PHP script in the "Source" tab. The code is used to generate SQL queries for exam scripts based on student input. It includes loops to handle multiple students and conditional logic to determine the type of exam (e.g., written or practical). The code uses MySQLi functions like `mysqli_query` and `mysqli_fetch_assoc` to interact with a database. A search bar at the bottom left shows the word "echo". The status bar at the bottom right indicates the date and time as "2021/07/22 11:54".

```

49 }
50
51     $count = count($sqlArray);
52     for ($i=0; $i<$count-1; $i++) {
53         $sqlQuery = "SELECT * FROM `exam` WHERE `Mod_Code` = '" . $sqlArray[$i] . "'";
54         $sqlResult = mysqli_query($connect, $sqlQuery);
55         $returnVal = mysqli_fetch_assoc($sqlResult);
56         $modCode = $returnVal["Mod_Code"];
57         $examType = $returnVal["ExamType"];
58         $duration = $returnVal["Duration"];
59         $examLink = $returnVal["ExamLink"];
60         $examDate = $returnVal["ExamDate"];
61
62         $sqlScript .= $modCode . " " . $examType . " " . $duration . " " . $examLink . " " . $examDate . "%";
63     }
64     //Last value of array
65     $sqlQuery = "SELECT * FROM `exam` WHERE `Mod_Code` = '" . $sqlArray[$count-1] . "'";
66     $sqlResult = mysqli_query($connect, $sqlQuery);
67     $returnVal = mysqli_fetch_assoc($sqlResult);
68     $modCode = $returnVal["Mod_Code"];
69     $examType = $returnVal["ExamType"];
70     $duration = $returnVal["Duration"];
71     $examLink = $returnVal["ExamLink"];
72     $examDate = $returnVal["ExamDate"];
73
74     $sqlScript .= $modCode . " " . $examType . " " . $duration . " " . $examLink . " " . $examDate;
75     echo $sqlScript;//Move this to bottom
76 }
77

```

UNISAPortal - NetBeans IDE 8.0.2

The screenshot shows the NetBeans IDE interface with the title bar "UNISAPortal - NetBeans IDE 8.0.2". The main window displays a PHP script in the "Source" tab. The code handles user login by checking against two tables: "lecturer" and "host". It uses MySQLi functions to query the database and compare the provided password with the hashed version stored in the database. The code includes conditional statements to validate the user's role (lecturer or host) and echo appropriate messages. A search bar at the bottom left shows the word "echo". The status bar at the bottom right indicates the date and time as "2021/07/22 11:55".

```

79 else if($count == 22) {//for lecturer login
80     $valid = 1;
81     $sqlQuery = "select * from lecturer WHERE Lec_Mail = '" . $username . "'";
82
83     $sqlResult = mysqli_query($connect, $sqlQuery) or die("error");
84
85     if(mysqli_num_rows($sqlResult) == 0) {//no such student number exists
86         echo 'noUser';
87     }
88     else {
89         $returnVal = mysqli_fetch_assoc($sqlResult);
90         $pass = $returnVal["Password"];
91         if($pass != $password) {//incorrect password
92             echo 'wrongPass';
93         }
94     }
95     else {//Correct username and password
96         $sqlScript = "rightPass" . " " . $returnVal["LecName"] . "%";
97         echo $sqlScript;//Move this to bottom
98     }
99 }
100 else if($count == 10) {//for host login
101     $valid = 1;
102     $sqlQuery = "select * from host WHERE HostName = '" . $username . "'";
103
104     $sqlResult = mysqli_query($connect, $sqlQuery);
105     if(mysqli_num_rows($sqlResult) == 0) {//no such student number exists
106         echo 'noUser';
107     }
108 }

```

The screenshot shows the UNISAPortal project in NetBeans IDE 8.0.2. The code editor displays a PHP file containing a login logic. The code uses MySQLi for database interaction and crypt() for password hashing. It includes error handling for incorrect logins and password recovery logic.

```
97     }
98 }
99 }
100 else if($count == 10) //For host login
101 {
102     $sqlQuery = "select * from host WHERE HostName = '" . $username . "'";
103
104     $sqlResult = mysqli_query($connect, $sqlQuery);
105     if(mysqli_num_rows($sqlResult) == 0) //no such student number exists
106         echo 'noUser';
107     else {
108         $returnVal = mysqli_fetch_assoc($sqlResult);
109         $hash = $returnVal["Hash"];
110         $salt = $returnVal["Hash"];
111
112         $logHash = crypt($password, $salt);
113         if($logHash != $hash) //incorrect password
114             echo 'wrongPass';
115         else //Correct username and password
116             $sqlScript = 'rightPass' . '*' . $returnVal["HostName"];
117             echo $sqlScript;//Move this to bottom
118     }
119 }
120 }
121 }
122 }
123
124
125 }
```

UNISA Login - GUI

Welcome



Login

Username

Enter text...

Password

Enter text...

Login

Welcome



Login

Username

dc

Username invalid.
Please enter valid username

Password

Login

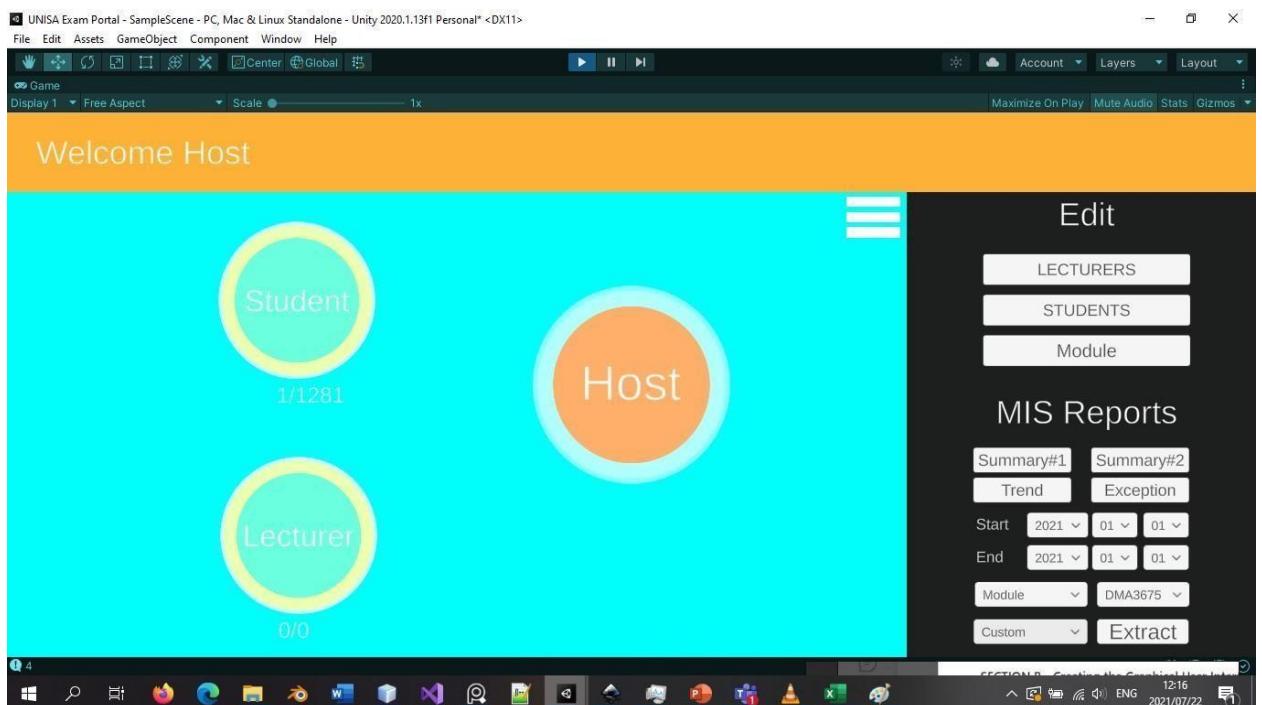
Student Sign-in

Welcome Reynold

Exam

ModCode	ExamType	Exam Date	Duration	Time		
IFC3601	Document Upload	2021-11-03	1 hours	09:00:00		Download Submit
ITF1501	MCQ	2021-11-03	4 hours	09:00:00		Download Submit
RAM2631	Fill-in	2021-11-03	8 hours	09:00:00		Download Submit

Host Sign In



Graphical User Interfaces for the MIS Reports

Reports - C# Backend

```
1 using System;
2 using System.Collections;
3 using System.Collections.Generic;
4 using TMPro;
5 using UnityEngine;
6 using UnityEngine.Networking;
7 [UnityScript("Assets/references/17 referenced")]
8 public class UNISA_Portal : MonoBehaviour
9 {
10     public GameObject subBackground;
11     public Color primary;
12     public Color secondary;
13     public GameObject timeBars;
14     public GameObject student;
15     public GameObject lecturer;
16     public static UNISA_Portal instance = null;
17     string type;
18     public TMP_IntegerField moduleInput;
19     public GameObject HostMain;
20     public GameObject HostMain2;
21     public GameObject ModuleMain;
22     public GameObject AddMod;
23     public GameObject UpdateMod;
24
25     public GameObject LectureMain;
```

UNISA_Exam_Portal

Assembly-CSharp

UNISA_Portal.cs TimeRemaining.cs SubjectHandler.cs Subject.cs SpinLog.cs Shortcuts.cs Settings.cs SaveReport.cs Notification.cs

No issues found

Error List ...

Entire Solution 0 Errors 0 of 4 Warnings 0 of 108 Messages Build + IntelliSense

Ready

18:21 2021/10/22

```
24
25     public GameObject LectureMain;
26     public GameObject AddLec;
27     public GameObject UpdateLec;
28
29     public GameObject StudentMain;
30     public GameObject AddStu;
31     public GameObject UpdateStu;
32
33     public int intchoice;
34     public GameObject custome;
35     public TMP_Dropdown dropdown;
36     public TMP_Dropdown dropFilter;
37     public TMP_Dropdown dropCount;
38     public TMP_Dropdown dropCount;
39
40     public TMP_Dropdown stYear;
41     public TMP_Dropdown stMonth;
42     public TMP_Dropdown stDay;
43
44     public TMP_Dropdown endYear;
45     public TMP_Dropdown endMonth;
46     public TMP_Dropdown endDay;
47
48     int multiple = 0;
49     private int totExam;
```

No issues found

Error List

Entire Solution 0 Errors 0 of 4 Warnings 0 of 108 Messages Build + IntelliSense

Project File Line Suppress...

Ready 18:21 2021/10/22

```
45     public TMP_Dropdown endMonth;
46     public TMP_Dropdown endDay;
47
48     int multiple = 0;
49     private int botYear;
50     private int reportchoice;
51     private int datechoice;
52     private string dateChoiceName;
53     private List<string> modules;
54     public List<string> typeList;
55     public List<string> view;
56     private bool extracted;
57
58     public GameObject favorMain;
59     public GameObject fLecture;
60     public GameObject fAddLec;
61     public GameObject fWeek;
62     public GameObject fMonth;
63     public GameObject fYear;
64     public GameObject fDisp;
65     public GameObject nobata;
66     public GameObject[] unitDisp;
67     public TMP_Dropdown dropUnit;
68
69     public int dispVal;
70     public TextMeshProUGUI dispText;
71     public TextMeshProUGUI titleText;
```

No issues found

Error List

Entire Solution 0 Errors 0 of 4 Warnings 0 of 108 Messages Build + IntelliSense

Project File Line Suppress...

Ready 18:21 2021/10/22

```
UNISA_Portals.cs  TimeRemaining.cs  SubjectHandler.cs  Subject.cs  SpinLog.cs  Shortcuts.cs  Settings.cs  SaveReport.cs  Notification.cs
Assembly-CSharp
65     public TMP_Dropdown dropdown;
66     public int dispVal;
67     public TextMeshProUGUI dispText;
68     public TextMeshProUGUI titleText;
69     public TextMeshProUGUI descText;
70     public List<int> weekVal;
71     public List<int> monthVal;
72     public List<int> yearVal;
73
74     public List<GameObject> modList;
75     public GameObject modCont; //scrollview content holder for modules
76     public GameObject modInfo; //specifies module details
77     public TMP_InputField modSearch; //filters out info according to searches.
78
79     public List<GameObject> stuList;
80     public GameObject stuInfo;
81     public GameObject stuCont;
82     public TMP_InputField stuSearch; //filters out info according to searches.
83
84     public List<GameObject> lecList;
85     public GameObject lecInfo;
86     public GameObject lecCont;
87     public TMP_InputField lecSearch; //filters out info according to searches.
88
89     public int maxModule;
90
91     public int maxSubject;
```

No issues found

Error List

Entire Solution 0 Errors 0 of 4 Warnings 0 of 108 Messages Build + IntelliSense

Code Description

Project File Line Suppress...

Ready Add to Source Control 18:21 2021/10/22

```
UNISA_Portals.cs  TimeRemaining.cs  SubjectHandler.cs  Subject.cs  SpinLog.cs  Shortcuts.cs  Settings.cs  SaveReport.cs  Notification.cs
Assembly-CSharp
87     public List<GameObject> lecList;
88     public GameObject lecInfo;
89     public GameObject lecCont;
90     public TMP_InputField lecSearch; //filters out info according to searches.
91     public int maxModule;
92
93     TMP_InputModule modCode = null;
94     TMP_InputModule modName;
95     TMP_InputModule examLink;
96     TMP_Dropdown examType;
97     TMP_InputModule examDate;
98     TMP_InputModule examTime;
99     TMP_InputModule duration;
100
101     TMP_InputModule stucode;
102     TMP_InputModule stuname;
103     TMP_InputModule stusurname;
104     TMP_InputModule stupassword;
105     TMP_InputModule stumod_1;
106     TMP_InputModule stumod_2;
107     TMP_InputModule stumod_3;
108     TMP_InputModule stumod_4;
109     TMP_InputModule stumod_5;
110
111     TMP_InputModule leccode;
112     TMP_InputModule lecpassword;
```

No issues found

Error List

Entire Solution 0 Errors 0 of 4 Warnings 0 of 108 Messages Build + IntelliSense

Code Description

Project File Line Suppress...

Ready Add to Source Control 18:21 2021/10/22

```
111 TMP_InputField leccode;
112 TMP_InputField lecpassword;
113 TMP_InputField lecMod_1;
114 TMP_InputField lecMod_2;
115 TMP_InputField lecMod_3;
116 TMP_InputField lecMod_4;
117 TMP_InputField lecMod_5;
118
119 string oldmodCode = "";
120 string oldstmodCode = "";
121 string oldstmod_1 = "";
122 string oldstmod_2 = "";
123 string oldstmod_3 = "";
124 string oldstmod_4 = "";
125 string oldstmod_5 = "";
126
127 string idlecodeCode = "";
128 string idlecodeMod_1 = "";
129 string idlecodeMod_2 = "";
130 string idlecodeMod_3 = "";
131 string idlecodeMod_4 = "";
132 string idlecodeMod_5 = "";
133
134 private GameObject currentObj; //references current module being changed.
135
136 string custom;
```

No issues found

```
135
136 string custom;
137 // @ Unity Message | references
138 private void Awake()
139 {
140     if (instance == null)
141     {
142         instance = this;
143     }
144 }
145 void Update() // Update is called once per frame
146 {
147     if (Input.GetKeyDown(KeyCode.LeftControl))
148     {
149         if (Input.GetKeyDown(KeyCode.Q))
150         {
151             Show("home");
152         }
153         if (Input.GetKeyDown(KeyCode.H))
154         {
155             Debug.Log("Activate shortcut");
156             if (HostMain2.activeSelf == true)
157             {
158                 Debug.Log("This is true");
159             }
160         }
161     }
162 }
```

No issues found

The screenshot shows the Visual Studio IDE interface with the following details:

- Title Bar:** UNISA Exam Portal
- Solution Explorer:** Assembly-CSharp
- Code Editor:** TimeRemaining.cs (partial code shown)
- Status Bar:** Ready, 18:22, 2021/10/22

```
161     }
162     else
163     {
164         debug.Log("This is false");
165         shortcut.HintShow("default");
166     }
167 }
168
169 public void ResetComp() //Responsible for disabling/enabling menus
170 {
171     foreach (var item in modList)
172     {
173         item.gameObject.SetActive(false);
174         // item.gameObject.SetActive(true);
175     }
176     foreach (var item in stuList)
177     {
178         item.gameObject.SetActive(false);
179         // item.gameObject.SetActive(true);
180     }
181 }
182
183 public void Show(string menu) //Used to display and hide menus
184 {
185     Added.gameObject.SetActive(false);
186 }
```

Error List: 0 Errors, 0 Warnings, 0 Messages

The screenshot shows the Visual Studio IDE interface with the following details:

- Title Bar:** UNISA Exam Portal
- Solution Explorer:** Assembly-CSharp
- Code Editor:** TimeRemaining.cs (full code shown)
- Status Bar:** Ready, 18:22, 2021/10/22

```
181     }
182     public void Show(string menu) //Used to display and hide menus
183     {
184         Added.gameObject.SetActive(false);
185         Addstu.gameObject.SetActive(false);
186         Addlec.gameObject.SetActive(false);
187         Updatemod.gameObject.SetActive(false);
188         Updatetu.gameObject.SetActive(false);
189         Updatelc.gameObject.SetActive(false);
190         subbackGround.SetActive(false);
191     }
192     switch (menu)
193     {
194         case "home":
195             noData.SetActive(false);
196             ReportMain.SetActive(false);
197             HostMain.SetActive(true);
198             HostMain2.SetActive(true);
199             ModuleMain.transform.localPosition = new Vector3(0, -1000, 0);
200             StudentMain.transform.localPosition = new Vector3(0, -1000, 0);
201             LecturerMain.transform.localPosition = new Vector3(0, -1000, 0);
202             break;
203         case "report":
204             droopUnit.value = 0;
205     }
206 }
```

Error List: 0 Errors, 0 Warnings, 0 Messages

UNISA_Exam_Portal

```
284         case "report":  
285             dropUnit.value = 0;  
286             foreach (var item in unitDisp)  
287             {  
288                 item.GetComponent<TextMeshProUGUI>().text = (int.Parse(item.GetComponent<TextMeshProUGUI>().text.Substring(0, 1)) * 10).ToString();  
289             }  
290             ReportMain.SetActive(true);  
291             HostMain.SetActive(false);  
292             HostMain.transform.localPosition = new Vector3(0, -1000, 0);  
293             StudentMain.transform.localPosition = new Vector3(0, -1000, 0);  
294             LecturerMain.transform.localPosition = new Vector3(0, -1000, 0);  
295             break;  
296         case "module":  
297             HostMain.SetActive(false);  
298             ModuleMain.transform.localPosition = new Vector3(0, 0, 0);  
299             StudentMain.transform.localPosition = new Vector3(0, -1000, 0);  
300             LecturerMain.transform.localPosition = new Vector3(0, -1000, 0);  
301             break;  
302         case "student":  
303             HostMain.SetActive(false);  
304             ModuleMain.transform.localPosition = new Vector3(0, -1000, 0);  
305             StudentMain.transform.localPosition = new Vector3(0, 0, 0);  
306             LecturerMain.transform.localPosition = new Vector3(0, -1000, 0);  
307             break;  
308         case "lecturer":  
309     }
```

No issues found

Error List

Entire Solution 0 Errors 0 of 4 Warnings 0 of 108 Messages Build + IntelliSense

Project File Line Suppress...

Ready 2021/10/22 18:22

UNISA_Exam_Portal

```
225             ModuleMain.transform.localPosition = new Vector3(0, -1000, 0);  
226             StudentMain.transform.localPosition = new Vector3(0, 0, 0);  
227             LecturerMain.transform.localPosition = new Vector3(0, -1000, 0);  
228             break;  
229         case "lecturer":  
230             HostMain.SetActive(false);  
231             ModuleMain.transform.localPosition = new Vector3(0, -1000, 0);  
232             StudentMain.transform.localPosition = new Vector3(0, 0, 0);  
233             LecturerMain.transform.localPosition = new Vector3(0, 0, 0);  
234             break;  
235         }  
236     }  
237     IEnumerator Start() // Start is called before the first frame update  
238     {  
239         lecCode = UpdateLec.transform.GetChild(0).gameObject.transform.GetChild(0).gameObject.GetComponent<TMP_IntegerField>();  
240         lecPassword = UpdateLec.transform.GetChild(1).gameObject.transform.GetChild(0).gameObject.GetComponent<TMP_IntegerField>();  
241         lecMod_1 = UpdateLec.transform.GetChild(2).gameObject.transform.GetChild(0).gameObject.GetComponent<TMP_IntegerField>();  
242         lecMod_2 = UpdateLec.transform.GetChild(3).gameObject.transform.GetChild(0).gameObject.GetComponent<TMP_IntegerField>();  
243         lecMod_3 = UpdateLec.transform.GetChild(4).gameObject.transform.GetChild(0).gameObject.GetComponent<TMP_IntegerField>();  
244         lecMod_4 = UpdateLec.transform.GetChild(5).gameObject.transform.GetChild(0).gameObject.GetComponent<TMP_IntegerField>();  
245         lecMod_5 = UpdateLec.transform.GetChild(6).gameObject.transform.GetChild(0).gameObject.GetComponent<TMP_IntegerField>();  
246         reportchoice = -1;  
247         optoption();  
248         FilterOption();  
249     }
```

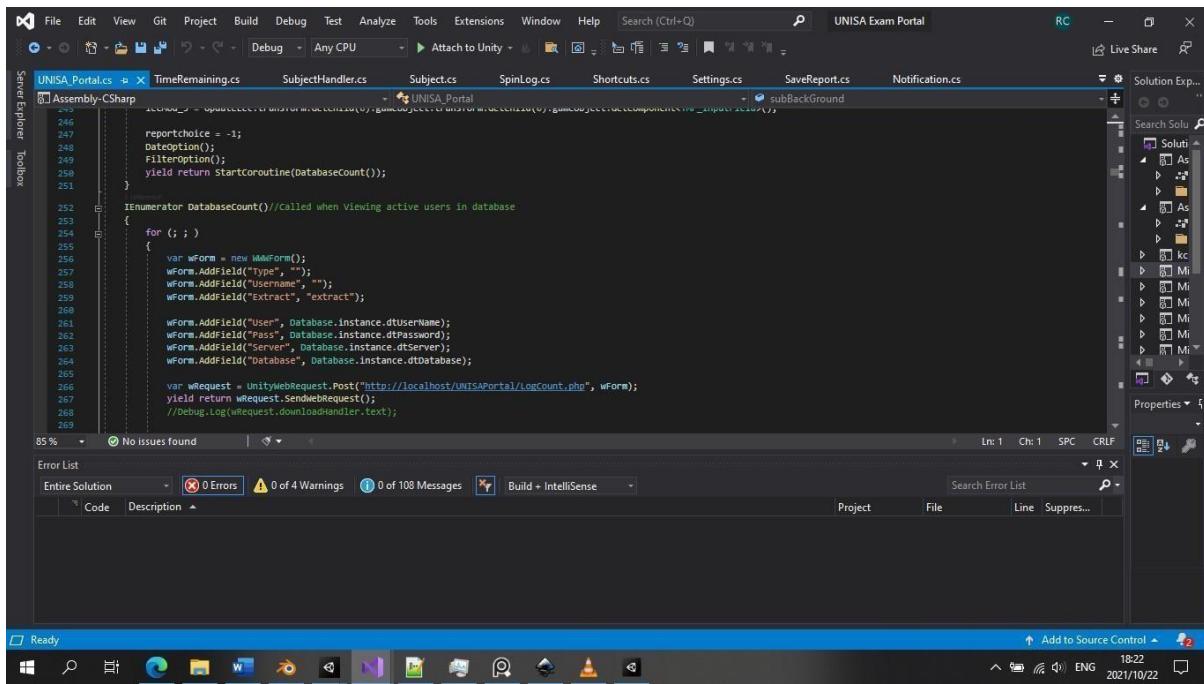
No issues found

Error List

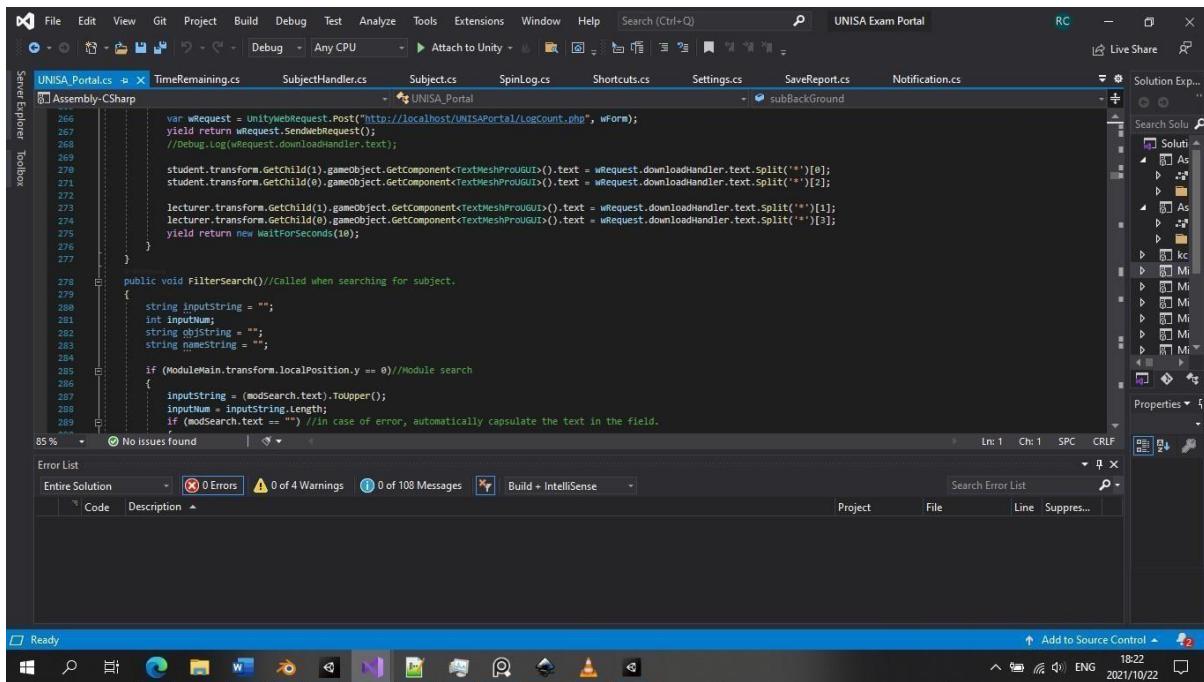
Entire Solution 0 Errors 0 of 4 Warnings 0 of 108 Messages Build + IntelliSense

Project File Line Suppress...

Ready 2021/10/22 18:22



```
245     reportchoice = -1;
246     dateoption();
247     FilterOption();
248     yield return StartCoroutine(DatabaseCount());
249 }
250 
251 IEnumerator DatabaseCount()//called when Viewing active users in database
252 {
253     for (; ; )
254     {
255         var wForm = new WindowsForm();
256         wForm.AddField("Type", "");
257         wForm.AddField("Username", "");
258         wForm.AddField("Extract", "extract");
259 
260         wForm.AddField("User", Database.instance.dtUserName);
261         wForm.AddField("Pass", Database.instance.dtPassword);
262         wForm.AddField("Server", Database.instance.dtServer);
263         wForm.AddField("Database", Database.instance.dtDatabase);
264 
265         var wRequest = unityWebRequest.Post("http://localhost/UNISAPortal/LogCount.php", wForm);
266         yield return wRequest.SendWebRequest();
267         //Debug.Log(wRequest.downloadHandler.text);
268     }
269 }
```



```
266     var wRequest = unityWebRequest.Post("http://localhost/UNISAPortal/LogCount.php", wForm);
267     yield return wRequest.SendWebRequest();
268     //Debug.Log(wRequest.downloadHandler.text);
269 
270     student.transform.GetChild(0).gameObject.GetComponent<TextMeshProUGUI>().text = wRequest.downloadHandler.text.Split('*')[0];
271     student.transform.GetChild(0).gameObject.GetComponent<TextMeshProUGUI>().text = wRequest.downloadHandler.text.Split('*')[1];
272 
273     lecturer.transform.GetChild(0).gameObject.GetComponent<TextMeshProUGUI>().text = wRequest.downloadHandler.text.Split('*')[1];
274     lecturer.transform.GetChild(0).gameObject.GetComponent<TextMeshProUGUI>().text = wRequest.downloadHandler.text.Split('*')[3];
275     yield return new WaitForSeconds(10);
276 }
277 
278 public void FilterSearch()//called when searching for subject.
279 {
280     string inputString = "";
281     int inputnum;
282     string objString = "";
283     string nameString = "";
284 
285     if (ModuleMain.transform.localPosition.y == 0)//Module search
286     {
287         inputString = (modSearch.text).ToUpper();
288         inputnum = inputString.length;
289         if (modSearch.text == "") //in case of error, automatically capsulate the text in the field.
290     }
```

```
UNISA_Portals.cs TimeRemaining.cs SubjectHandler.cs Subjects.cs SpinLog.cs Shortcuts.cs Settings.cs SaveReport.cs Notification.cs
Assembly-CSharp
292     {
293         item.gameObject.SetActive(true);
294     }
295 }
296 foreach (var item in modList)//get total number of characters in the text corresponding to inputfield for modCode.
297 {
298     objString = (item.transform.GetChild(0).gameObject.GetComponent<TextMeshProUGUI>().text.Substring(0, inputnum)).ToUpper();
299     if (objString != inputString)
300     {
301         item.gameObject.SetActive(false);
302     }
303     else
304     {
305         item.gameObject.SetActive(true);
306     }
307 }
308 else if (StudentMain.transform.localPosition.y == 0)//Student search
309 {
310     inputString = (stuSearch.text).ToUpper();
311     inputnum = inputString.Length;
312     if (stuSearch.text == "") //In case of error, automatically capsulate the text in the field.
313     {
314         foreach (var item in stuList)
315         {
316             item.gameObject.SetActive(true);
317         }
318     }
319 }
320 foreach (var item in stuList)//get total number of characters in the text corresponding to inputfield for modCode.
321 {
322     objString = (item.transform.GetChild(0).gameObject.GetComponent<TextMeshProUGUI>().text.Substring(0, inputnum)).ToUpper();
323     nameString = (item.transform.GetChild(1).gameObject.GetComponent<TextMeshProUGUI>().text.Substring(0, inputnum)).ToUpper();
324     if (objString != inputString)
325     {
326         item.gameObject.SetActive(false);
327     }
328     else
329     {
330         item.gameObject.SetActive(true);
331     }
332 }
333 }
334 else if (LecturerMain.transform.localPosition.y == 0)//Lecturer search
335 {
336     inputString = (lecSearch.text).ToUpper();
337     inputnum = inputString.Length;
338 }
```

```
UNISA_Portals.cs TimeRemaining.cs SubjectHandler.cs Subjects.cs SpinLog.cs Shortcuts.cs Settings.cs SaveReport.cs Notification.cs
Assembly-CSharp
313 if (stuSearch.text == "") //In case of error, automatically capsulate the text in the field.
314 {
315     foreach (var item in stuList)
316     {
317         item.gameObject.SetActive(true);
318     }
319 }
320 foreach (var item in stuList)//get total number of characters in the text corresponding to inputfield for modCode.
321 {
322     objString = (item.transform.GetChild(0).gameObject.GetComponent<TextMeshProUGUI>().text.Substring(0, inputnum)).ToUpper();
323     nameString = (item.transform.GetChild(1).gameObject.GetComponent<TextMeshProUGUI>().text.Substring(0, inputnum)).ToUpper();
324     if (objString != inputString)
325     {
326         item.gameObject.SetActive(false);
327     }
328     else
329     {
330         item.gameObject.SetActive(true);
331     }
332 }
333 }
334 else if (LecturerMain.transform.localPosition.y == 0)//Lecturer search
335 {
336     inputString = (lecSearch.text).ToUpper();
337     inputnum = inputString.Length;
338 }
```

```
334     }
335     else if (LecturerMain.transform.localPosition.y == 0) //Lecturer search
336     {
337         inputString = (lecSearch.text).ToUpper();
338         inputnum = inputString.Length;
339         if (lecSearch.text == "") //in case of error, automatically capsulate the text in the field.
340         {
341             foreach (var item in lecList)
342             {
343                 item.gameObject.SetActive(true);
344             }
345         }
346         foreach (var item in lecList)//get total number of characters in the text corresponding to inputfield for modCode.
347         {
348             objString = (item.transform.GetChild(0).gameObject.GetComponent<TextMeshProUGUI>().text.Substring(0, inputnum)).ToUpper();
349             if (objString != inputString)
350             {
351                 item.gameObject.SetActive(false);
352             }
353             else
354             {
355                 item.gameObject.SetActive(true);
356             }
357         }
358     }

```

No issues found

Error List

Entire Solution 0 Errors 4 Warnings 0 of 108 Messages Build + IntelliSense

```
361     public void Refresh(string type)//Refreshes a specified list
362     {
363         switch (type)
364         {
365             case "module":
366                 modList.Clear();
367                 foreach (Transform item in modCont.transform)
368                 {
369                     modList.Add(item.gameObject);
370                 }
371                 break;
372             case "student":
373                 stuList.Clear();
374                 foreach (Transform item in stuCont.transform)
375                 {
376                     stuList.Add(item.gameObject);
377                 }
378                 break;
379             case "lecturer":
380                 lecList.Clear();
381                 foreach (Transform item in lecCont.transform)
382                 {
383                     lecList.Add(item.gameObject);
384                 }
385                 break;
386         }
387     }

```

No issues found

Error List

Entire Solution 0 Errors 4 Warnings 0 of 108 Messages Build + IntelliSense

The screenshot shows the Microsoft Visual Studio IDE interface. The top menu bar includes File, Edit, View, Git, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help, and Search (Ctrl+Q). A tab bar at the top displays 'UNISA_Portal.cs' as the active file, along with TimeRemaining.cs, SubjectHandler.cs, Subjects.cs, SpinLog.cs, Shortcuts.cs, Settings.cs, SaveReport.cs, and Notification.cs. The status bar at the bottom shows 'Ready' and various system icons.

UNISA_Portal.cs

```
foreach (Transform item in lecCont.transform)
{
    lecList.Add(item.gameObject);
}
break;
}

public void FillSub(string type)//Code which fills the subject items scroll.
{
    string typ = type;
    ClearSub(typ);
    //refills list once again.
    switch (type)
    {
        case "module":
            for (int i = 0; i < ExtractData.instance.modules.Count; i++)
            {
                GameObject inst = Instantiate(modInfo, modCont.transform);
                inst.transform.GetChild(0).gameObject.GetComponent<TextMeshProUGUI>().text = ExtractData.instance.modules[i].ModCode;
                if (ExtractData.instance.modules[i].ExamType == "Document Upload")
                {
                    inst.transform.GetChild(1).gameObject.GetComponent<TextMeshProUGUI>().text = "Upload";
                }
                else
                {

```

Solution Explorer

Properties

```
int num = 0;
if (ExtractData.instance.students[i].Mod_1 != "") {
    num += 1;
}
if (ExtractData.instance.students[i].Mod_2 != "") {
    num += 1;
}
if (ExtractData.instance.students[i].Mod_3 != "") {
    num += 1;
}
if (ExtractData.instance.students[i].Mod_4 != "") {
    num += 1;
}
if (ExtractData.instance.students[i].Mod_5 != "") {
    num += 1;
}

inst.transform.GetChild(3).gameObject.GetComponent<TextMeshProUGUI>().text = num.ToString();
stuList.Add(inst);
```

```
        num += 1;

        inst.transform.GetChild(3).gameObject.GetComponent<TextMeshProUGUI>().text = num.ToString();
    }
    stuList.Add(inst);
}
break;
case "lecturer":
for (int i = 0; i < ExtractData.instance.lecturers.Count; i++) {
    GameObject inst = Instantiate(lecInfo, lecCont.transform);
    inst.transform.GetChild(0).gameObject.GetComponent<TextMeshProUGUI>().text = ExtractData.instance.lecturers[i].LecCode.Substring(0, 10);
    inst.transform.GetChild(1).gameObject.GetComponent<TextMeshProUGUI>().text = ExtractData.instance.lecturers[i].Password;

    int num = 0;
    if (ExtractData.instance.lecturers[i].Mod_1 != "") {
        num += 1;
    }
    if (ExtractData.instance.lecturers[i].Mod_2 != "") {
        num += 1;
    }
    if (ExtractData.instance.lecturers[i].Mod_3 != "") {
```

```
UNISA_Portals.cs  TimeRemaining.cs  SubjectHandler.cs  Subjects.cs  SpinLog.cs  Shortcuts.cs  Settings.cs  SaveReport.cs  Notification.cs
Assembly-CSharp
465     {
466         num += 1;
467     }
468     if (ExtractData.instance.lecturers[i].Mod_3 != "")
469     {
470         num += 1;
471     }
472     if (ExtractData.instance.lecturers[i].Mod_4 != "")
473     {
474         num += 1;
475     }
476     if (ExtractData.instance.lecturers[i].Mod_5 != "")
477     {
478         num += 1;
479     }
480     inst.transform.GetChild(2).gameObject.GetComponent<TextMeshProUGUI>().text = num.ToString();
481     //debug.Log(ExtractData.instance.lecturers[i].LecCode.Substring(0, 10));
482     lectList.Add(inst);
483 }
484 break;
485 default:
486 break;
487 }
488 }

489 public void UnitDisplay() //Changes vertical axis display units
500
501     int num = dropUnit.value;
502
503     switch (num)
504     {
505         case 0:
506             foreach (var item in unitDisp)
507             {
508                 item.GetComponent<TextMeshProUGUI>().text = (int.Parse(item.GetComponent<TextMeshProUGUI>().text.Substring(0, 1)) * 10).ToString();
509             }
510             multiple = 10;
511             break;
512         case 1:
513             foreach (var item in unitDisp)
514             {
515                 item.GetComponent<TextMeshProUGUI>().text = (int.Parse(item.GetComponent<TextMeshProUGUI>().text.Substring(0, 1)) * 100).ToString();
516             }
517             multiple = 100;
518             break;
519         case 2:
520             foreach (var item in unitDisp)
521             {
522                 item.GetComponent<TextMeshProUGUI>().text = (int.Parse(item.GetComponent<TextMeshProUGUI>().text.Substring(0, 1)) * 1000).ToString();
523             }
524     }
525 }
```

No issues found

```
UNISA_Portals.cs  TimeRemaining.cs  SubjectHandler.cs  Subjects.cs  SpinLog.cs  Shortcuts.cs  Settings.cs  SaveReport.cs  Notification.cs
Assembly-CSharp
488     int num = dropUnit.value;
489
490     switch (num)
491     {
492         case 0:
493             foreach (var item in unitDisp)
494             {
495                 item.GetComponent<TextMeshProUGUI>().text = (int.Parse(item.GetComponent<TextMeshProUGUI>().text.Substring(0, 1)) * 10).ToString();
496             }
497             multiple = 10;
498             break;
499         case 1:
500             foreach (var item in unitDisp)
501             {
502                 item.GetComponent<TextMeshProUGUI>().text = (int.Parse(item.GetComponent<TextMeshProUGUI>().text.Substring(0, 1)) * 100).ToString();
503             }
504             multiple = 100;
505             break;
506         case 2:
507             foreach (var item in unitDisp)
508             {
509                 item.GetComponent<TextMeshProUGUI>().text = (int.Parse(item.GetComponent<TextMeshProUGUI>().text.Substring(0, 1)) * 1000).ToString();
510             }
511     }
512 }
```

No issues found

The screenshot shows the Visual Studio IDE interface with the following details:

- Title Bar:** UNISA Exam Portal
- Menu Bar:** File, Edit, View, Git, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help, Search (Ctrl+Q)
- Toolbars:** Standard, Debug, Attach to Unity, Task List, Find, Replace, Status Bar.
- Solution Explorer:** Shows a solution structure with multiple projects and files.
- Properties Explorer:** Shows properties for selected items.
- Code Editor:** Displays the `TimeRemaining.cs` file with C# code. The code includes several nested loops and conditionals, primarily dealing with unit conversion and text display.
- Error List:** Shows 0 Errors, 0 Warnings, and 0 Messages.
- Status Bar:** Ready, Add to Source Control, 18:23, 2021/10/22.

The screenshot shows the Visual Studio IDE interface with the following details:

- Title Bar:** UNISA Exam Portal
- Menu Bar:** File, Edit, View, Git, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help, Search (Ctrl+Q)
- Toolbars:** Standard, Debug, Attach to Unity, Task List, Find, Replace, Status Bar.
- Solution Explorer:** Shows a solution structure with multiple projects and files.
- Properties Explorer:** Shows properties for selected items.
- Code Editor:** Displays the `TimeRemaining.cs` file with C# code. This version of the code includes a `ScaleUnits` method and additional logic for scaling bar unit values.
- Error List:** Shows 0 Errors, 0 Warnings, and 0 Messages.
- Status Bar:** Ready, Add to Source Control, 18:23, 2021/10/22.

```
UNISA_Portals.cs  TimeRemaining.cs  SubjectHandler.cs  Subject.cs  SpinLog.cs  Shortcuts.cs  Settings.cs  SaveReport.cs  Notification.cs
Assembly-CSharp
548     void ScaleUnits(int multiple) //scales bar unit values
549     {
550         multiple = multiple / 10;
551         if (elToday.activeSelf == true)
552         {
553             for (int i = 0; i < todayVal.Count; i++)
554             {
555                 Vector3 barPos = elToday.transform.GetChild(0).gameObject.transform.GetChild(i).gameObject.transform.localPosition;
556                 barPos = new Vector3(barPos.x, 0, barPos.z);
557                 barPos = new Vector3(barPos.x, (barPos.y + (todayVal[i] * 5)) / multiple), barPos.z);
558                 elToday.transform.GetChild(0).gameObject.transform.GetChild(i).gameObject.transform.localPosition = barPos;
559             }
560         }
561         else if (elWeek.activeSelf == true)
562         {
563             for (int i = 0; i < weekVal.Count; i++)
564             {
565                 Vector3 barPos = elWeek.transform.GetChild(0).gameObject.transform.GetChild(i).gameObject.transform.localPosition;
566                 barPos = new Vector3(barPos.x, 0, barPos.z);
567                 barPos = new Vector3(barPos.x, (barPos.y + (weekVal[i] * 5)) / multiple), barPos.z);
568                 elWeek.transform.GetChild(0).gameObject.transform.GetChild(i).gameObject.transform.localPosition = barPos;
569             }
570         }
571         else if (elMonth.activeSelf == true)
572         {
573             for (int i = 0; i < monthVal.Count; i++)
574             {
575                 Vector3 barPos = elMonth.transform.GetChild(0).gameObject.transform.GetChild(i).gameObject.transform.localPosition;
576                 barPos = new Vector3(barPos.x, 0, barPos.z);
577                 barPos = new Vector3(barPos.x, (monthVal[i] * 5) / multiple), barPos.z);
578                 elMonth.transform.GetChild(0).gameObject.transform.GetChild(i).gameObject.transform.localPosition = barPos;
579             }
580         }
581         else if (elYear.activeSelf == true)
582         {
583             for (int i = 0; i < yearVal.Count; i++)
584             {
585                 Vector3 barPos = elYear.transform.GetChild(0).gameObject.transform.GetChild(i).gameObject.transform.localPosition;
586                 barPos = new Vector3(barPos.x, 0, barPos.z);
587                 barPos = new Vector3(barPos.x, (yearVal[i] * 5) / multiple), barPos.z);
588                 elYear.transform.GetChild(0).gameObject.transform.GetChild(i).gameObject.transform.localPosition = barPos;
589             }
590         }
591         else if (elDisp.activeSelf == true)
592         {
593             Vector3 barPos = elDisp.transform.GetChild(0).gameObject.transform.localPosition; // elToday.transform.GetChild(0).gameObject.transform.GetChild(i).gameObject.transform.localPosition;
594             barPos = new Vector3(barPos.x, 0, barPos.z);
595             barPos = new Vector3(barPos.x, barPos.y + (displval * 5) / multiple, barPos.z); // barPos = new Vector3(barPos.x, barPos.y + (displval * 5) / multiple), barPos.z);
596         }
597     }
598 }
```

```
UNISA_Portals.cs  TimeRemaining.cs  SubjectHandler.cs  Subject.cs  SpinLog.cs  Shortcuts.cs  Settings.cs  SaveReport.cs  Notification.cs
Assembly-CSharp
572         else if (elMonth.activeSelf == true)
573         {
574             for (int i = 0; i < monthVal.Count; i++)
575             {
576                 Vector3 barPos = elMonth.transform.GetChild(0).gameObject.transform.GetChild(i).gameObject.transform.localPosition;
577                 barPos = new Vector3(barPos.x, 0, barPos.z);
578                 barPos = new Vector3(barPos.x, (monthVal[i] * 5) / multiple), barPos.z);
579                 elMonth.transform.GetChild(0).gameObject.transform.GetChild(i).gameObject.transform.localPosition = barPos;
580             }
581         }
582         else if (elYear.activeSelf == true)
583         {
584             for (int i = 0; i < yearVal.Count; i++)
585             {
586                 Vector3 barPos = elYear.transform.GetChild(0).gameObject.transform.GetChild(i).gameObject.transform.localPosition;
587                 barPos = new Vector3(barPos.x, 0, barPos.z);
588                 barPos = new Vector3(barPos.x, (yearVal[i] * 5) / multiple), barPos.z);
589                 elYear.transform.GetChild(0).gameObject.transform.GetChild(i).gameObject.transform.localPosition = barPos;
590             }
591         }
592         else if (elDisp.activeSelf == true)
593         {
594             Vector3 barPos = elDisp.transform.GetChild(0).gameObject.transform.localPosition; // elToday.transform.GetChild(0).gameObject.transform.GetChild(i).gameObject.transform.localPosition;
595             barPos = new Vector3(barPos.x, 0, barPos.z);
596             barPos = new Vector3(barPos.x, barPos.y + (displval * 5) / multiple, barPos.z); // barPos = new Vector3(barPos.x, barPos.y + (displval * 5) / multiple), barPos.z);
597         }
598     }
599 }
```

The screenshot shows the Visual Studio IDE interface with the following details:

- Title Bar:** UNISA Exam Portal
- Menu Bar:** File, Edit, View, Git, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help
- Toolbar:** Standard toolbar with icons for file operations.
- Solution Explorer:** Shows the project structure with files like UNISA_Portals.cs, TimeRemaining.cs, SubjectHandler.cs, Subject.cs, SpinLog.cs, Shortcuts.cs, Settings.cs, SaveReport.cs, and Notification.cs.
- Code Editor:** Displays the TimeRemaining.cs code. The code includes logic for reporting, filtering, and date selection. A specific section of the code is highlighted:

```
        barPos = new Vector3(barPos.x, barPos.y + (dispval * 5) / multiple, barPos.z); //barPos = new Vector3(barPos.x, barPos.y + (dispval * 5) / multiple), barPos.z);
        elDisp.transform.GetChild(0).gameObject.transform.localPosition = barPos;
```

The code editor shows line numbers from 595 to 618. The status bar at the bottom indicates "No issues found".

The screenshot shows the Visual Studio IDE interface with the following details:

- Title Bar:** UNISA Exam Portal
- Menu Bar:** File, Edit, View, Git, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help
- Toolbar:** Standard toolbar with icons for file operations.
- Solution Explorer:** Shows the project structure with files like UNISA_Portals.cs, TimeRemaining.cs, SubjectHandler.cs, Subject.cs, SpinLog.cs, Shortcuts.cs, Settings.cs, SaveReport.cs, and Notification.cs.
- Code Editor:** Displays the TimeRemaining.cs code. The code includes logic for reporting, filtering, and date selection. A specific section of the code is highlighted:

```
        dropFilter.value = 0;
        dropCount.gameObject.SetActive(false);
        dropFilter.gameObject.SetActive(true); //reactivate inputfield
        FilterOption();
```

The code editor shows line numbers from 618 to 641. The status bar at the bottom indicates "No issues found".

The screenshot shows the Visual Studio IDE interface with the following details:

- Title Bar:** UNISA_Exam_Portal
- Menu Bar:** File, Edit, View, Git, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help, Search (Ctrl+Q)
- Toolbars:** Standard, Debug, Attach to Unity, Task List, Find, Replace, Status Bar.
- Solution Explorer:** Shows the project structure with files like TimeRemaining.cs, SubjectHandler.cs, Subject.cs, SpinLog.cs, Shortcuts.cs, Settings.cs, SaveReport.cs, and Notification.cs.
- Code Editor:** Displays the TimeRemaining.cs file with C# code. The code includes methods for filtering options based on type (module or type) and retrieving data based on user options. It also contains an implementation of the IEnumerator interface for the ModData method.
- Error List:** Shows 0 Errors, 0 Warnings, and 0 Messages.
- Status Bar:** Ready, Add to Source Control, 18:24, 2021/10/22.

The screenshot shows the Visual Studio IDE interface with the following details:

- Title Bar:** UNISA_Exam_Portal
- Menu Bar:** File, Edit, View, Git, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help, Search (Ctrl+Q)
- Toolbars:** Standard, Debug, Attach to Unity, Task List, Find, Replace, Status Bar.
- Solution Explorer:** Shows the project structure with files like TimeRemaining.cs, SubjectHandler.cs, Subject.cs, SpinLog.cs, Shortcuts.cs, Settings.cs, SaveReport.cs, and Notification.cs.
- Code Editor:** Displays the TimeRemaining.cs file with C# code. The code includes a large block of code starting with `IEnumerator ModData(string type, string function)` which creates a Windows Form (wForm) and adds various text fields (AddField) for different module and student information fields.
- Error List:** Shows 0 Errors, 0 Warnings, and 0 Messages.
- Status Bar:** Ready, Add to Source Control, 18:24, 2021/10/22.

```
689 wForm.AddField("Oldstu_Mail", oldstuCode);
690 wForm.AddField("Oldlec_Mail", oldlecCode);
691 wForm.AddField("Oldmod_1", oldstuMod_1);
692 wForm.AddField("Oldmod_2", oldstuMod_2);
693 wForm.AddField("Oldmod_3", oldstuMod_3);
694 wForm.AddField("Oldmod_4", oldstuMod_4);
695 wForm.AddField("Oldmod_5", oldstuMod_5);
696 wForm.AddField("Oldlec_1", oldlecMod_1);
697 wForm.AddField("Oldlec_2", oldlecMod_2);
698 wForm.AddField("Oldlec_3", oldlecMod_3);
699 wForm.AddField("Oldlec_4", oldlecMod_4);
700 wForm.AddField("Oldlec_5", oldlecMod_5);
701
702 switch (type)
703 {
704     case "module":
705         Debug.Log("Testing the Module: " + modCode.text);
706         wForm.AddField("Mod_Name", moduleName.text);
707         wForm.AddField("Mod_Lin", modLine.text);
708         wForm.AddField("Mod_Type", examTypeOptions[examType.value].text);
709         wForm.AddField("Mod_Date", examDate.text + " " + examTime.text);
710         wForm.AddField("Mod_Duration", duration.text);
711         break;
712     case "student":
713         wForm.AddField("Stu_Mail", stuCode.text);
714
715         wForm.AddField("Stu_Name", stuName.text);
716         wForm.AddField("Stu_Surname", stuSurname.text);
717         wForm.AddField("Stu_Pass", stuPassword.text);
718         wForm.AddField("Mod_1", stuMod_1.text);
719         wForm.AddField("Mod_2", stuMod_2.text);
720         wForm.AddField("Mod_3", stuMod_3.text);
721         wForm.AddField("Mod_4", stuMod_4.text);
722         wForm.AddField("Mod_5", stuMod_5.text);
723
724         break;
725     case "lecturer":
726         wForm.AddField("Lec_Mail", lecCode.text);
727         wForm.AddField("Lec_Pass", lecPassword.text);
728         wForm.AddField("Lec_1", lecMod_1.text);
729         wForm.AddField("Lec_2", lecMod_2.text);
730         wForm.AddField("Lec_3", lecMod_3.text);
731         wForm.AddField("Lec_4", lecMod_4.text);
732         wForm.AddField("Lec_5", lecMod_5.text);
733
734         break;
735     default:
736         break;
737 }
```

```
711 wForm.AddField("Mod_date", examDate.text + " " + examTime.text);
712 wForm.AddField("Mod_Duration", duration.text);
713
714     break;
715     case "student":
716         wForm.AddField("Stu_Mail", stuCode.text);
717         wForm.AddField("Stu_Name", stuName.text);
718         wForm.AddField("Stu_Surname", stuSurname.text);
719         wForm.AddField("Stu_Pass", stuPassword.text);
720         wForm.AddField("Mod_1", stuMod_1.text);
721         wForm.AddField("Mod_2", stuMod_2.text);
722         wForm.AddField("Mod_3", stuMod_3.text);
723         wForm.AddField("Mod_4", stuMod_4.text);
724         wForm.AddField("Mod_5", stuMod_5.text);
725
726         break;
727     case "lecturer":
728         wForm.AddField("Lec_Mail", lecCode.text);
729         wForm.AddField("Lec_Pass", lecPassword.text);
730         wForm.AddField("Lec_1", lecMod_1.text);
731         wForm.AddField("Lec_2", lecMod_2.text);
732         wForm.AddField("Lec_3", lecMod_3.text);
733         wForm.AddField("Lec_4", lecMod_4.text);
734         wForm.AddField("Lec_5", lecMod_5.text);
735
736         break;
737     default:
738         break;
739 }
```

```
735         break;
736     }
737     wForm.AddField("type", type);
738     wForm.AddField("function", function);
739     wForm.AddField("user", Database.Instance.dtUserName);
740     wForm.AddField("pass", Database.Instance.dtPassword);
741     wForm.AddField("Server", Database.Instance.dtServer);
742     wForm.AddField("database", Database.Instance.dtDatabase);
743     UnityWebRequest wRequest;
744     if (function == "add")
745     {
746         debug.Log("lecturer modules: " + lecMod_1.text + ", " + lecMod_2.text + ", " + lecMod_3.text);
747         wRequest = UnityWebRequest.Post("http://localhost/UNISAPortal/insert.php", wForm);
748     }
749     else
750     {
751         wRequest = UnityWebRequest.Post("http://localhost/UNISAPortal/update.php", wForm);
752     }
753     yield return wRequest.SendWebRequest();
754
755     //call
756     switch (type)
757     {
758         case "module":
759             ExtractData.instance.ExtData("module", "update");
760             break;
761         case "student":
762             ExtractData.instance.ExtData("student", "update");
763             break;
764         case "lecturer":
765             ExtractData.instance.ExtData("lecturer", "update");
766             break;
767         default:
768             break;
769     }
770     Debug.Log(wRequest.downloadHandler.text);
771 }
772
773 public void ExtractData() //Extracts data from list
774 {
775     //Sets up the filter result conditions
776     string result;
777     if (reportchoice == 1 || reportchoice == 4)
778     {
779         result = "SELECT * FROM subjects WHERE subjectID = " + reportchoice;
780     }
781     else if (reportchoice == 2 || reportchoice == 3)
782     {
783         result = "SELECT * FROM subjects WHERE studentID = " + reportchoice;
784     }
785 }
```

```
753         yield return wRequest.SendWebRequest();
754
755     //call
756     switch (type)
757     {
758         case "module":
759             ExtractData.instance.ExtData("module", "update");
760             break;
761         case "student":
762             ExtractData.instance.ExtData("student", "update");
763             break;
764         case "lecturer":
765             ExtractData.instance.ExtData("lecturer", "update");
766             break;
767         default:
768             break;
769     }
770     Debug.Log(wRequest.downloadHandler.text);
771 }
772
773 public void ExtractData() //Extracts data from list
774 {
775     //Sets up the filter result conditions
776     string result;
777     if (reportchoice == 1 || reportchoice == 4)
778     {
779         result = "SELECT * FROM subjects WHERE subjectID = " + reportchoice;
780     }
781     else if (reportchoice == 2 || reportchoice == 3)
782     {
783         result = "SELECT * FROM subjects WHERE studentID = " + reportchoice;
784     }
785 }
```

The screenshot shows the Microsoft Visual Studio IDE interface. The top menu bar includes File, Edit, View, Git, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help, and Search (Ctrl+Q). A tab bar at the top shows files: UNISA_Portals.cs, TimeRemaining.cs, SubjectHandler.cs, Subjects.cs, SpinLog.cs, Shortcuts.cs, Settings.cs, SaveReport.cs, and Notification.cs. The main code editor displays `UNISA_Portals.cs` with the following code:

```
771 }
772 }
773 public void ExtractData()//Extracts data from list
774 {
775     //Sets up the filter result conditions
776     string fResult;
777     if (reportchoice == 1 | reportchoice == 4)
778     {
779         fResult = moduleInput.text;
780     }
781     else
782     {
783         fResult = dropCont.options[dropCont.value].text;
784     }
785
786     StartCoroutine(CrtExtractData(reportchoice, dropFilter.options[dropFilter.value].text, fResult, dropDown.options[dropDown.value].text));
787 }
788
789 IEnumerator CrtExtractData(int report, string filter, string filterResult, string date)//IEnumerator for extracting data
790 {
791
792     Debug.Log("Filter is: " + filter);
793     string startDate = "";
794     string endDate = "";
```

The status bar at the bottom shows 85% completion. The Error List window below the code editor shows 0 Errors, 0 Warnings, and 0 of 108 Messages. The bottom navigation bar includes tabs for Code, Description, Project, File, Line, and Suppress... along with a Source Control icon.

The screenshot shows the Microsoft Visual Studio IDE interface. The top menu bar includes File, Edit, Git, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help, and Search (Ctrl+Q). A tab bar at the top displays several files: UNISA_Portal.cs, TimeRemaining.cs, SubjectHandler.cs, Subject.cs, SpinLog.cs, Shortcuts.cs, Settings.cs, SaveReport.cs, and Notification.cs. The main code editor window contains C# code for the UNISA_Portal.cs file, which handles date filtering and custom date logic. The Solution Explorer on the right lists multiple projects and files. The Properties window is also visible. At the bottom, the Error List shows 0 errors, 0 warnings, and 108 messages. The status bar at the bottom right indicates the date as 2021/10/22.

```
791     Debug.Log("Filter is: " + filter);
792     string startDate = "";
793     string endDate = "";
794     MainForm wfForm = new MainForm(); //letter containing the info
795
796     int startYear = int.Parse(stYear.options[stYear.value].text);
797     int startMonth = int.Parse(stMonth.options[stMonth.value].text);
798     int startDay = int.Parse(stDay.options[stDay.value].text);
799
800     int endYear = int.Parse(endYear.options[endYear.value].text);
801     int endMonth = int.Parse(endMonth.options[endMonth.value].text);
802     int endDay = int.Parse(endDay.options[endDay.value].text);
803
804     startDate = stYear.options[stYear.value].text + "-" + stMonth.options[stMonth.value].text + "-" + stDay.options[stDay.value].text + " 00:00:00";
805     endDate = endYear.options[endYear.value].text + "-" + endMonth.options[endMonth.value].text + "-" + endDay.options[endDay.value].text + " 23:59:59";
806
807     //This means that a custom date has been set
808     if (date == "Custom")
809     {
810         DateTime first = new DateTime(startYear, startMonth, startDay);
811         DateTime second = new DateTime(endYear, endMonth, endDay);
812
813         var datee = first - second;
814         int dated = datee.days;
815     }

```

```
815     void DateCalc()
816     {
817         int datei = datee.Days;
818         if (datei <= 7)
819         {
820             dateChoice = 0;
821             date = "Today";
822         }
823         if (datei > 7 & datei <= 14)
824         {
825             dateChoice = 1;
826             date = "Week";
827         }
828         if (datei > 14 & datei <= 31)
829         {
830             dateChoice = 2;
831             date = "Month";
832         }
833         if (datei > 31 & datei <= 365)
834         {
835             dateChoice = 3;
836             date = "Year";
837         }
838         wForm.AddField("Report", report); //Declares which type of report is being extracted.
839         wForm.AddField("Filter", filter); //Determines extraction type
```

```
839         wForm.AddField("Filter", filter); //Determines extraction type
840         wForm.AddField("FilterResult", filterResult); //Determines filter
841         wForm.AddField("date", date); //Determines date extraction
842         wForm.AddField("startDate", startDate); //Custom start date
843         wForm.AddField("endDate", endDate); //Custom end date
844         wForm.AddField("TotExam", totExam); //Custom end date
845         wForm.AddField("Custom", custom);
846
847         wForm.AddField("User", Database.instance.dtUserName);
848         wForm.AddField("Pass", Database.instance.dtPassword);
849         wForm.AddField("Server", Database.instance.dtServer);
850         wForm.AddField("Database", Database.instance.dtDatabase);
851
852         if (dropfilter == "Module")
853             UnityWebRequest www = UnityWebRequest.Post("http://localhost/UNISAPortal/Extract.php", wForm); //the pigeon's destination.
854
855         yield return www.SendWebRequest(); //make the pigeon fly!
856
857         string strText = www.downloadHandler.text;
858         Debug.Log(strText);
859
860         ReportCall(strText);
861
862         if (dropdown.value == 5)
863         {
864             //2021-01-06 00:00:00
```

```
UNISA_Portals.cs TimeRemaining.cs SubjectHandler.cs Subject.cs SpinLog.cs Shortcuts.cs Settings.cs SaveReport.cs Notification.cs
Assembly-CSharp
869     }
870     public void ExamCount()
871     {
872         totExam = dropCount.value;
873     }
874     void ReportCall(string results)//Responsible for displaying report data
875     {
876         string output = dropCont.options[dropCont.value].text;
877         show("report");
878         if (reportchoice == -1) return;
879         elToday.SetActive(false);
880         elWeek.SetActive(false);
881         elMonth.SetActive(false);
882         elYear.SetActive(false);
883
884         timeBars.transform.GetChild(0).gameObject.SetActive(false);
885         timeBars.transform.GetChild(1).gameObject.SetActive(false);
886         timeBars.transform.GetChild(2).gameObject.SetActive(false);
887         timeBars.transform.GetChild(3).gameObject.SetActive(false);
888
889         todayVal.Clear();
890         todayVal = new List<int>(new int[10]);
891
892         weekVal.Clear();
893         weekVal = new List<int>(new int[7]);
894
895         monthVal.Clear();
896         monthVal = new List<int>(new int[4]);
897
898         yearVal.Clear();
899         yearVal = new List<int>(new int[12]);
900
901         Debug.Log("Report choice is: " + reportchoice);
902         //Used to specify Title text based on Report
903         switch (reportchoice)
904         {
905             case 0:
906                 titleText.text = "Missing Report";
907                 descText.text = "Please select a report from the Menu";
908                 break;
909             case 1:
910                 //color choice
911                 primary = new Color(1f, 0.1367925f, 0.1367925f);
912                 secondary = new Color(1f, 0.2705883f, 0.345058f);
913
914                 titleText.text = "Summary Report#1";
915
916         }
917
918         dropdownCount.value = reportchoice;
919
920         dropdownCount.Refresh();
921
922         dropdownCount.Refresh();
923
924         dropdownCount.Refresh();
925
926         dropdownCount.Refresh();
927
928         dropdownCount.Refresh();
929
930         dropdownCount.Refresh();
931
932         dropdownCount.Refresh();
933
934         dropdownCount.Refresh();
935
936         dropdownCount.Refresh();
937
938         dropdownCount.Refresh();
939
940         dropdownCount.Refresh();
941
942         dropdownCount.Refresh();
943
944         dropdownCount.Refresh();
945
946         dropdownCount.Refresh();
947
948         dropdownCount.Refresh();
949
950         dropdownCount.Refresh();
951
952         dropdownCount.Refresh();
953
954         dropdownCount.Refresh();
955
956         dropdownCount.Refresh();
957
958         dropdownCount.Refresh();
959
960         dropdownCount.Refresh();
961
962         dropdownCount.Refresh();
963
964         dropdownCount.Refresh();
965
966         dropdownCount.Refresh();
967
968         dropdownCount.Refresh();
969
970         dropdownCount.Refresh();
971
972         dropdownCount.Refresh();
973
974         dropdownCount.Refresh();
975
976         dropdownCount.Refresh();
977
978         dropdownCount.Refresh();
979
980         dropdownCount.Refresh();
981
982         dropdownCount.Refresh();
983
984         dropdownCount.Refresh();
985
986         dropdownCount.Refresh();
987
988         dropdownCount.Refresh();
989
990         dropdownCount.Refresh();
991
992         dropdownCount.Refresh();
993
994         dropdownCount.Refresh();
995
996         dropdownCount.Refresh();
997
998         dropdownCount.Refresh();
999
999 }
```

```
UNISA_Portals.cs TimeRemaining.cs SubjectHandler.cs Subject.cs SpinLog.cs Shortcuts.cs Settings.cs SaveReport.cs Notification.cs
Assembly-CSharp
891         weekVal.Clear();
892         weekVal = new List<int>(new int[7]);
893
894         monthVal.Clear();
895         monthVal = new List<int>(new int[4]);
896
897         yearVal.Clear();
898         yearVal = new List<int>(new int[12]);
899
900         Debug.Log("Report choice is: " + reportchoice);
901         //Used to specify Title text based on Report
902         switch (reportchoice)
903         {
904             case 0:
905                 titleText.text = "Missing Report";
906                 descText.text = "Please select a report from the Menu";
907                 break;
908             case 1:
909                 //color choice
910                 primary = new Color(1f, 0.1367925f, 0.1367925f);
911                 secondary = new Color(1f, 0.2705883f, 0.345058f);
912
913                 titleText.text = "Summary Report#1";
914
915
916         }
917
918         dropdownCount.value = reportchoice;
919
920         dropdownCount.Refresh();
921
922         dropdownCount.Refresh();
923
924         dropdownCount.Refresh();
925
926         dropdownCount.Refresh();
927
927 }
```

```
UNISA_Portals.cs  TimeRemaining.cs  SubjectHandler.cs  Subjects.cs  SpinLog.cs  Shortcuts.cs  Settings.cs  SaveReport.cs  Notification.cs
```

```
912     primary = new Color(if, 0.1367925f, 0.1367925f);
913     secondary = new Color(if, 0.2705883f, 0.34509538f);
914
915     titleText.text = "Summary Report1";
916     descText.text = "Total number of " + moduleInput.text + " exams written " + dateChoiceName;
917     break;
918
919 case 2:
920     primary = new Color(ef, 0.5019608f, 0.2f);
921     secondary = new Color(0.ef, if, 0.9f);
922
923     titleText.text = "Summary Report2";
924     descText.text = "Total number of " + output + " exams written " + dateChoiceName;
925     break;
926
927 case 3:
928     primary = new Color(0.2666667f, ef, 0.3333f);
929     secondary = new Color(0.ef, ef, if);
930
931     titleText.text = "Trend Report"; //Students who wrote more than
932     descText.text = "Students who wrote more than " + totExam + " " + output + " Exams " + dateChoiceName;
933     break;
934
935 case 4:
936     primary = new Color(0.8313726f, 0.3333f, ef);
937     secondary = new Color(if, if, ef);
938
939     titleText.text = "Exception Report";
940     descText.text = "Students who did not finish writing " + moduleInput.text + dateChoiceName;
941     break;
942
943     if (results == "" | reportchoice == 0)
944     {
945         noData.SetActive(true);
946         Debug.Log("Empty Results");
947     }
948     else
949     {
950         results = results.Substring(0, results.Length - 1);
951         List<string> view = new List<string>(results.Split('%'));
952         switch (datechoice)
953         {
954             case 0: //Today
955                 Date = DateTime.Now.ToString("dd/MM/yyyy");
956             break;
957         }
958     }
959
960 }
```

```
UNISA_Portals.cs  TimeRemaining.cs  SubjectHandler.cs  Subjects.cs  SpinLog.cs  Shortcuts.cs  Settings.cs  SaveReport.cs  Notification.cs
```

```
930     descText.text = "Students who wrote more than " + totExam + " " + output + " Exams " + dateChoiceName;
931     break;
932
933 case 4:
934     primary = new Color(0.8313726f, 0.3333f, ef);
935     secondary = new Color(if, if, ef);
936
937     titleText.text = "Exception Report";
938     descText.text = "Students who did not finish writing " + moduleInput.text + dateChoiceName;
939     default:
940         break;
941
942     if (results == "" | reportchoice == 0)
943     {
944         noData.SetActive(true);
945         Debug.Log("Empty Results");
946     }
947     else
948     {
949         results = results.Substring(0, results.Length - 1);
950         List<string> view = new List<string>(results.Split('%'));
951         switch (datechoice)
952         {
953             case 0: //Today
954                 Date = DateTime.Now.ToString("dd/MM/yyyy");
955             break;
956         }
957     }
958
959 }
```

The screenshot shows the Visual Studio IDE interface with the following details:

- Title Bar:** UNISA Exam Portal
- Menu Bar:** File, Edit, View, Git, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help
- Toolbar:** Standard toolbar icons.
- Solution Explorer:** Shows the solution structure with multiple projects and files.
- Code Editor:** Displays the `TimeRemaining.cs` file under the `UNISA_Portal.cs` project. The code implements logic to determine the number of days in a week based on a view array index. It includes comments for week #1 through week #4.
- Error List:** Shows 0 Errors, 0 Warnings, and 0 Messages.
- Status Bar:** Ready, Add to Source Control, 18:25, 2021/10/22.

The screenshot shows the Visual Studio IDE interface with the following details:

- Title Bar:** UNISA Exam Portal
- Menu Bar:** File, Edit, View, Git, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help
- Toolbar:** Standard toolbar icons.
- Solution Explorer:** Shows the solution structure with multiple projects and files.
- Code Editor:** Displays the `TimeRemaining.cs` file under the `UNISA_Portal.cs` project. The code implements logic for month and year calculations, involving game objects and transform components.
- Error List:** Shows 0 Errors, 0 Warnings, and 0 Messages.
- Status Bar:** Ready, Add to Source Control, 18:26, 2021/10/22.

```
1665     elYear.SetActive(true);
1666     timeBar.transform.GetChild(3).gameObject.SetActive(true); //activate timebar
1667     for (int i = 0; i < viewCount; i++)
1668     {
1669         yearVal[int.Parse(view[i].Split(':')[0]) - 1] = (int.Parse(view[i].Split(':')[1]));
1670     }
1671
1672     for (int i = 0; i < yearVal.Count; i++)
1673     {
1674         GameObject gm = elYear.transform.GetChild(i).gameObject; //enable its number
1675         gm.GetComponent<BarMove>().MoveBar(yearVal[i], i + 1);
1676         // iTween.MoveTo(gm, iTween.Hash("position", barPos, "islocal", true, "time", 1.5f));
1677     }
1678     break;
1679     default:
1680     break;
1681 }
1682
1683 }
1684
1685 public void SetShadows(bool set)
1686 {
1687     for (int i = 0; i < todayVal.Count; i++)
1688     {
1689         GameObject gm = elToday.transform.GetChild(i).gameObject.transform.GetChild(i).gameObject; //enable its number
1690         gm.GetComponent<BarMove>().SetShadows(set);
1691     }
1692
1693     for (int i = 0; i < weekVal.Count; i++)
1694     {
1695         GameObject gm = elWeek.transform.GetChild(i).gameObject.transform.GetChild(i).gameObject; //enable its number
1696         gm.GetComponent<BarMove>().SetShadows(set);
1697     }
1698
1699     for (int i = 0; i < monthVal.Count; i++)
1700     {
1701         GameObject gm = elMonth.transform.GetChild(i).gameObject.transform.GetChild(i).gameObject; //enable its number
1702         gm.GetComponent<BarMove>().SetShadows(set);
1703     }
1704
1705     for (int i = 0; i < yearVal.Count; i++)
1706     {
1707         GameObject gm = elYear.transform.GetChild(i).gameObject.transform.GetChild(i).gameObject; //enable its number
1708         gm.GetComponent<BarMove>().SetShadows(set);
1709     }
1710 }
```

```
1683     }
1684
1685     public void SetShadows(bool set)
1686     {
1687         for (int i = 0; i < todayVal.Count; i++)
1688         {
1689             GameObject gm = elToday.transform.GetChild(i).gameObject.transform.GetChild(i).gameObject; //enable its number
1690             gm.GetComponent<BarMove>().SetShadows(set);
1691         }
1692
1693         for (int i = 0; i < weekVal.Count; i++)
1694         {
1695             GameObject gm = elWeek.transform.GetChild(i).gameObject.transform.GetChild(i).gameObject; //enable its number
1696             gm.GetComponent<BarMove>().SetShadows(set);
1697         }
1698
1699         for (int i = 0; i < monthVal.Count; i++)
1700         {
1701             GameObject gm = elMonth.transform.GetChild(i).gameObject.transform.GetChild(i).gameObject; //enable its number
1702             gm.GetComponent<BarMove>().SetShadows(set);
1703         }
1704
1705         for (int i = 0; i < yearVal.Count; i++)
1706         {
1707             GameObject gm = elYear.transform.GetChild(i).gameObject.transform.GetChild(i).gameObject; //enable its number
1708             gm.GetComponent<BarMove>().SetShadows(set);
1709         }
1710     }
1711 }
```

Reports - PHP Backend

UNISAPortal - NetBeans IDE 8.0.2

File Edit View Navigate Source Refactor Run Debug Team Tools Window Help

Search (Ctrl+F)

Projects Files Services

Source History

...php Upload.php backup.php index.php local_restore.php online_restore.php Delete.php Extract.php

6959834_bully.png 6959834_Bullyng 6959834_IFC3601.pdf 6959834_asthenic.png 6959834_chatter.png 6959834_deep.png Delete.php Extract.php ExtractData.php Insert.php LogCount.php Mail.php PassGen.php SaveAnswer.php SaveData.php

Navigator

- CalcExam()
- CalcSummary()
- ClearRecords(\$type)
- DateCalc()
- ExamMod(\$modCode)
- GrabModule()
- GrabType()
- TypeExt(\$str)

Filters:

```
<?php
1 $servername = $_POST["Server"];
2 $user = $_POST["User"];
3 $pass = $_POST["Pass"];
4 $database = $_POST["Database"];
5
6 $connect = mysqli_connect($servername, $user, $pass, $database);
7
8 $report = $_POST['Report']; // 
9 $filter = $_POST['Filter']; // 
10 $filterResult = $_POST['FilterResult'];
11 $date = $_POST['Date'];
12 $startDate = $_POST['StartDate'];
13 $endDate = $_POST['EndDate'];
14 $totExam = $_POST['TotExam']; //total number of exams written. used for Trend
15 $custom = $_POST['Custom']; //total number of exams written. used for Trend
16 $calcDate = "";
17 $swow = "";
18 $returnVal = "";
19 $sqlQuery = "";
20 $sqlResult = "";
21 $returnVal = "";
22 $examType = "";
23 $first_param = "";
24 $second_param = "";
25
26 $tables = array("fill_ans", "mcq_ans", "upload_ans");
27
28 //echo "Date is= $date";
29
30 //echo "Date is= $date";
31
32 function DateCalc() {
33
34 }
```

1:1 | INS

12:53 2021/10/21

The screenshot shows the UNISAPortal project in NetBeans IDE 8.0.2. The code editor displays a PHP file named DateCalc.php. The code implements several functions to calculate dates based on user input. It includes functions for calculating specific dates like 'mcg_ans' and 'fill_ans', as well as functions for 'Upload', 'Today', and 'This Week'. The code uses MySQL queries to get the current date and then adds or subtracts intervals to produce the final output. The IDE interface includes a top menu bar with File, Edit, View, Navigate, Source, Refactor, Run, Debug, Team, Tools, Window, Help, and a search bar. Below the menu is a toolbar with icons for file operations. The left side features a Projects panel listing files like Bulv.png, JPC3601.pdf, and various PHP scripts, and a Navigator panel showing class and method definitions. The bottom has a toolbar with filters and a status bar showing the date and time.

```
function DateCalc() {
    global $date, $sconnect, $calcdate, $filterResult, $startDate, $endDate;
    // $date = DateVar;
    // Renames filter to appropriate name
    switch ($filterResult) {
        case "mcg":
            $filterResult = "mcg_ans";
            break;
        case "fill":
            $filterResult = "fill_ans";
            break;
        case "Upload":
            $filterResult = "upload_ans";
            break;
    }
}

switch ($date) {
    case 'Today': // Today. Function to be used = Day

        $sqlQuery = "Select CURDATE() AS DATE";
        $sqlResult = mysqli_query($sconnect, $sqlQuery);
        $returnVal = mysqli_fetch_assoc($sqlResult);
        $startDate = $returnVal['DATE'] . " 00:00:00";
        $endDate = $returnVal['DATE'] . " 23:59:59";
        $calcdate = "Today";
        break;

    case "This Week": // This Week. Function to be used = Week
        $sqlQuery = "SELECT DATE_SUB(CURDATE(), INTERVAL 1 WEEK) AS DATE";
        $sqlResult = mysqli_query($sconnect, $sqlQuery);
        $returnVal = mysqli_fetch_assoc($sqlResult);
        $startDate = $returnVal['DATE'] . " 00:00:00";
        $endDate = $returnVal['DATE'] . " 23:59:59";
        $calcdate = "This Week";
        break;
}
```

The screenshot shows the UNISAPortal - NetBeans IDE 8.0.2 interface. The code editor displays a PHP script with several conditional blocks (case statements) for calculating dates based on input parameters. The Navigator panel on the left lists various functions and variables, and the Projects panel shows files like 'Bully.php' and 'Delete.php'. The bottom status bar indicates the date as 2021/10/21.

```
case "Week":  
    break;  
  
case "This Month": //This Month. Function to be used = Month  
    $sqlQuery = "SELECT DATE_SUB(CURDATE(), INTERVAL 1 MONTH) AS DATE;"  
    $sqlResult = mysqli_query($connect, $sqlQuery);  
    $returnVal = mysqli_fetch_assoc($sqlResult);  
    $startDate = $returnVal['DATE'] . " 00:00:00";  
  
    $sqlQuery = "Select CURDATE() AS DATE";  
    $sqlResult = mysqli_query($connect, $sqlQuery);  
    $returnVal = mysqli_fetch_assoc($sqlResult);  
    $endDate = $returnVal['DATE'] . " 23:59:59";  
    $calculate = "Month";  
    break;  
  
case "This Year": //This Year. Function to be used = Year  
    $sqlQuery = "SELECT DATE_SUB(CURDATE(), INTERVAL 1 YEAR) AS DATE;"  
    $sqlResult = mysqli_query($connect, $sqlQuery);  
    $returnVal = mysqli_fetch_assoc($sqlResult);  
    $startDate = $returnVal['DATE'] . " 00:00:00";  
  
    $sqlQuery = "Select CURDATE() AS DATE";  
    $sqlResult = mysqli_query($connect, $sqlQuery);  
    $returnVal = mysqli_fetch_assoc($sqlResult);  
    $endDate = $returnVal['DATE'] . " 23:59:59";  
    $calculate = "Year";  
    break;  
  
case "Custom": //CustomDate. Function to be used = Custom  
    $sqlQuery = "SELECT DATE_SUB(CURDATE(), INTERVAL 1 MONTH) AS DATE;"
```

The screenshot shows the UNISAPortal - NetBeans IDE 8.0.2 interface. The top menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Team, Tools, Window, Help. The title bar says "UNISAPortal - NetBeans IDE 8.0.2". The left sidebar has tabs for Projects, Files, and Services, showing files like 56959834_Bully.lng, 56959834_Bullying.php, 56959834_JFC3601.pdf, etc. The Navigator pane lists methods such as CalcExpTrn(), CalcSummary(), ClearRecords(\$type), DateCalc(), ExamMod(\$modCode), GrabModule(), GrabType(), and TypeExt(\$str). The bottom left shows Filters with icons for Java, XML, and CSS. The main editor area displays a PHP script with syntax highlighting and code completion. The code handles date calculations based on user input, using MySQLi queries and associative arrays. The bottom right shows the system tray with icons for battery, signal, and volume, and the status bar with "12:54 2021/10/21 ENG".

```
...php Upload.php x backup.php x index.php x local_restore.php x online_restore.php x Delete.php x Extract.php x
Source History ▾
91 $sqlQuery = "Select CURDATE() AS DATE";
92 $connect = mysqli_connect($connect, $sqlQuery);
93 $returnVal = mysqli_fetch_assoc($sqlResult);
94 $endDate = $returnVal['DATE'] . " 23:59:59";
95 $calcDate = "Year";
96 break;
97
98 case "Custom": //CustomDate. Function to be used = Custom
99 $sqlQuery = "SELECT DATE_SUB(CURDATE(), INTERVAL 1 MONTH) AS DATE;";
100 $sqlResult = mysqli_query($connect, $sqlQuery);
101 $returnVal = mysqli_fetch_assoc($sqlResult);
102 $startDate .= " 00:00:00";
103
104 $sqlQuery = "Select CURDATE() AS DATE";
105 $sqlResult = mysqli_query($connect, $sqlQuery);
106 $returnVal = mysqli_fetch_assoc($sqlResult);
107 $endDate .= " 23:59:59";
108 $calcDate = "Custom";
109
110 default:
111 break;
112 }
113
114 if ($custom == NULL) {
115 //echo "Custom is NULL!!";
116 DateCalc();
117 } else {
118 // echo"Custom is not NULL!";
119 $calcDate = $date;
120 }
121
122 }
```

The screenshot shows the UNISAPortal - NetBeans IDE 8.0.2 interface. The top menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Team, Tools, Window, Help, and a search bar. The left sidebar features a Projects tab with files like 65959834_Bully.png, 65959834_Bullying, 65959834_IFC3601.pdf, 65959834_aspheric.png, 65959834_chatter.png, 65959834_chatterpng, 65959834_deep.png, Delete.php, Extract.php, ExtractData.php, Insert.php, LogCount.php, Mail.php, PassGen.php, SaveAnswer.php, and SaveData.php. A Navigator tab lists methods such as CalcExpTrn(), CalcSummary(), ClearRecords(\$type), DateCalc(), ExamMod(\$modCode), GrabModule(), GrabType(), and TypeExt(\$str). The main area displays a portion of the 'index.php' file with PHP code, including functions like CalcSummary() and GrabModule(). The bottom status bar shows the date and time as 2021/10/21 12:54.

```
function CalcSummary() {
    global $filter, $examType, $filterResult, $connect, $sqlQuery, $sqlResult, $sqlResult, $returnVal, $wo;
    switch ($calcDate) {
        case "Today":
            // echo " This is the today";
            if ($filter == "Module") {
                GrabModule();
                $returnVal = $sqlResult->fetch_all(MYSQLI_ASSOC);

                foreach ($returnVal as $val) {
                    $wo.= $val['StartTime'] . ":" . $val['Count(*)'] . "%";
                }
            } else {
                GrabType();
                $returnVal = $sqlResult->fetch_all(MYSQLI_ASSOC);

                foreach ($returnVal as $val) {
                    $wo.= $val['hours'] . ":" . $val['Total'] . "%";
                }
            }

            break;
        case "Week":
            // echo " This is the week";
            if ($filter == "Module") {
                GrabModule();
                $returnVal = $sqlResult->fetch_all(MYSQLI_ASSOC);
            }
    }
}
```

The screenshot shows the UNISAPortal project in NetBeans IDE 8.0.2. The left sidebar displays the Projects, Files, and Services panes, listing various files like Upload.php, backup.php, index.php, local_restore.php, online_restore.php, Delete.php, and Extract.php. The Navigator pane shows symbols such as CalcExpTm(), CalcSummary(), ClearRecords(\$type), DateCalc(), ExamMod(\$modCode), GrabModule(), GrabType(), and TypeEx(\$str). The main editor area contains a PHP script with code related to database queries and file operations. The code uses syntax highlighting for PHP, MySQLi, and regular expressions. Code folding is used throughout the script to collapse large sections of code.

```
if ($val['Count(*)'] != NULL) {
    $swow.= $val['days'] . "x" . $val['Count(*)'] . "%";
}
} else {
    GrabType();
    //echo "SELECT LEFT(STRING(StartTime,9),2) as days, Count(*) FROM " . $filterResult . " WHERE ";
    $returnVal = $sqlResult->fetch_all(MYSQLI_ASSOC);
    foreach ($returnVal as $val) {
        if ($val['Count(*)'] != NULL) {
            $swow.= $val['days'] . "x" . $val['Total'] . "%";
        }
    }
    break;
}
case "Month":
// echo " This is the month";
ClearRecords("all");
if ($filter == "Module") {
    GrabModule();
    $returnVal = $sqlResult->fetch_all(MYSQLI_ASSOC);

    foreach ($returnVal as $val) {
        if ($val['Exams'] != NULL) {
            $swow.= $val['StartTime'] . "x" . $val['Exams'] . "%";
        }
    }
} else {
    GrabType();
    $returnVal = $sqlResult->fetch_all(MYSQLI_ASSOC);
```

The screenshot shows the UNISAPortal - NetBeans IDE 8.0.2 interface. The top menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Team, Tools, Window, Help. The title bar says "UNISAPortal - NetBeans IDE 8.0.2". The left sidebar has a "Projects" tab showing files like 56959834_Bully.lng, 56959834_Bullyingng, 56959834_JFC3601.pdf, 56959834_authentication.png, 56959834_chatter.png, 56959834_chatterping, 56959834_deep.png, Delete.php, Extract.php, ExtractData.php, Insert.php, LogCount.php, Mail.php, PassGen.php, SaveAnswer.php, and SaveData.php. A "Navigator" tab lists methods such as CalcExpTrn(), CalcSummary(), ClearRecords(\$type), DateCalc(), ExamMod(\$modCode), GrabModule(), GrabType(), and TypeExt(\$str). The bottom toolbar includes icons for file operations like Open, Save, and Print, along with filters for Java, XML, and CSS. The main workspace shows a code editor with PHP code for processing database results. The code uses loops to iterate through returned values (\$returnVal) and concatenates strings (\$swow) based on specific conditions related to 'Exam' and 'Month' fields.

```
foreach ($returnVal as $val) { //since it gives table results, this code can only work when $val['Exam'] != NULL //prevent it from writing to wow when there is nothing in value
    if ($val['Exam'] != NULL) {
        $swow.= $val['StartTime'] . ":" . $val['Exam'] . "%";
    }
}
break;
case "Year":
//echo This is the year;
if ($filter == "Module") {
    //echo "Modular!";
    GrabModule();
    $returnVal = $sqlResult->fetch_all(MYSQLI_ASSOC);

    foreach ($returnVal as $val) {
        $swow.= $val['month'] . ":" . $val['Total'] . "%";
    }
} else {
    // echo "Typular!";
    GrabType();
    $returnVal = $sqlResult->fetch_all(MYSQLI_ASSOC);

    foreach ($returnVal as $val) {
        $swow.= $val['month'] . ":" . $val['Total'] . "%";
    }
}
break;
```

The screenshot shows the UNISAPortal project in NetBeans IDE 8.0.2. The left sidebar displays the Project, Files, and Services panes. The Navigator pane lists various database-related classes like CalcExpTrn, CalcSummary, ClearRecords, DateCalc, ExamMod, GrabModule, GrabType, and TypeEx(\$str). The main editor pane contains a PHP script with logic to handle reports for weeks or months. The code uses MySQLi queries to insert data into a 'data' table, calculating exam counts and total scores for specific time periods.

```
case "Week":
    if ($report == 1) {
        for ($i = 0; $i < 3; $i++) {
            $sqlResult = mysqli_query($connect, "INSERT INTO data(SELECT StartTime,Mod_Code
        }
        $sqlResult = mysqli_query($connect, "SELECT LEFT(SUBSTRING(StartTime ,9),2) as days
    } else {
        $sqlResult = mysqli_query($connect, "SELECT LEFT(SUBSTRING(StartTime ,9),2) as days
    }
    break;

case "Month":
    ExamMod($filterResult);
    if ($report == 1) {
        for ($i = 0; $i < 3; $i++) {
            $sqlResult = mysqli_query($connect, "INSERT INTO data(SELECT StartTime,Mod_Code
        }
        $sqlResult = mysqli_query($connect, "INSERT INTO first (SELECT LEFT(SUBSTRING(Start
        $sqlResult = mysqli_query($connect, "INSERT INTO second (SELECT LEFT(SUBSTRING(Star
        $sqlResult = mysqli_query($connect, "INSERT INTO third (SELECT LEFT(SUBSTRING(Start
        $sqlResult = mysqli_query($connect, "INSERT INTO fourth (SELECT LEFT(SUBSTRING(Star
        ClearRecords("data");
        $sqlResult = mysqli_query($connect, "INSERT INTO data VALUES(1,(SELECT Sum(Exams) I
        $sqlResult = mysqli_query($connect, "INSERT INTO data VALUES(2,(SELECT Sum(Exams) I
        $sqlResult = mysqli_query($connect, "INSERT INTO data VALUES(3,(SELECT Sum(Exams) I
        $sqlResult = mysqli_query($connect, "INSERT INTO data VALUES(4,(SELECT Sum(Exams) I
        $sqlResult = mysqli_query($connect, "SELECT StartTime, SUM(Exams) as 'Exams' FRQb
    } else {
        $sqlResult = mysqli_query($connect, "INSERT INTO first (SELECT LEFT(SUBSTRING(Start
        $sqlResult = mysqli_query($connect, "INSERT INTO second (SELECT LEFT(SUBSTRING(Star
        $sqlResult = mysqli_query($connect, "INSERT INTO third (SELECT LEFT(SUBSTRING(Start
        $sqlResult = mysqli_query($connect, "INSERT INTO fourth (SELECT LEFT(SUBSTRING(Star
        ClearRecords("data");
        $sqlResult = mysqli_query($connect, "INSERT INTO data VALUES(1,(SELECT Sum(Exams) I
        $sqlResult = mysqli_query($connect, "INSERT INTO data VALUES(2,(SELECT Sum(Exams) I
        $sqlResult = mysqli_query($connect, "INSERT INTO data VALUES(3,(SELECT Sum(Exams) I
        $sqlResult = mysqli_query($connect, "INSERT INTO data VALUES(4,(SELECT Sum(Exams) I
        $sqlResult = mysqli_query($connect, "SELECT StartTime, SUM(Exams) as 'Exams' FRQb
    }
}
```

The screenshot shows the UNISAPortal project in NetBeans IDE 8.0.2. The main window displays a PHP file named `index.php`. The code contains several MySQL queries for inserting data into a table named `data`. The IDE uses color-coded syntax highlighting to distinguish between different parts of the code. A code completion dropdown menu is open at the bottom of the editor, listing suggestions such as `CalExpTm()`, `CalSummary()`, `ClearRecords($type)`, `DateCalc()`, `ExamMod($modCode)`, `GrabModule()`, `GrabType()`, and `TypeExt($str)`. The bottom status bar shows the current time as 12:56 and the date as 2021/10/21.

UNISAPortal - NetBeans IDE 8.0.2

File Edit View Navigate Source Refactor Run Debug Team Tools Window Help

Search (Ctrl+F)

Projects **Files x Services**

Upload.php backup.php index.php local_restore.php online_restore.php Delete.php Extract.php

Source History

325 //When table is specified
326 default:
327 switch (\$calcDate) {
328 case "Today":
329 ExamMod(\$filterResult);
330 //SsqlResult = mysqli_query(\$connect, "INSERT INTO data(SELECT Stu_Mail, COUNT(*) as c FROM Students WHERE Date_Created = CURDATE());
331 \$sqlResult = mysqli_query(\$connect, "INSERT INTO data(SELECT StartTime,Mod_Code FROM Sessions WHERE Date_Created = CURDATE());
332 \$sqlResult = mysqli_query(\$connect, "SELECT LEFT(SUBSTRING(StartTime ,12),2) as hours,
333 break;
334
335 case "Week":
336 ExamMod(\$filterResult);
337 \$sqlResult = mysqli_query(\$connect, "INSERT INTO data(Select StartTime,Mod_Code FROM Sessions WHERE Date_Created = CURDATE());
338 \$sqlResult = mysqli_query(\$connect, "SELECT LEFT(SUBSTRING(StartTime ,9),2) as days, Co
339
340 break;
341
342 case "Month":
343 ExamMod(\$filterResult);
344 \$sqlResult = mysqli_query(\$connect, "INSERT INTO first (SELECT LEFT(SUBSTRING(StartTime
345 \$sqlResult = mysqli_query(\$connect, "INSERT INTO second (SELECT LEFT(SUBSTRING(StartTime
346 \$sqlResult = mysqli_query(\$connect, "INSERT INTO third (SELECT LEFT(SUBSTRING(StartTime
347 \$sqlResult = mysqli_query(\$connect, "INSERT INTO fourth (SELECT LEFT(SUBSTRING(StartTime
348 \$sqlResult = mysqli_query(\$connect, "INSERT INTO data VALUES(1,(SELECT Sum(Exams) FROM
349 \$sqlResult = mysqli_query(\$connect, "INSERT INTO data VALUES(2,(SELECT Sum(Exams) FROM
350 \$sqlResult = mysqli_query(\$connect, "INSERT INTO data VALUES(3,(SELECT Sum(Exams) FROM
351 \$sqlResult = mysqli_query(\$connect, "INSERT INTO data VALUES(4,(SELECT Sum(Exams) FROM
352 \$sqlResult = mysqli_query(\$connect, "SELECT * FROM data;");
353 break;
354
355 ***

Navigator

CaldExpTm()
CaldSummary()
ClearRecords(\$type)
DateCalc()
ExamMod(\$modCode)
GrabModule()
GrabType()
TypeEx(\$str)

Filters:

12:57 ENG 2021/10/21

UNISAPortal - NetBeans IDE 8.0.2

File Edit View Navigate Source Refactor Run Debug Team Tools Window Help

Search (Ctrl+F)

Projects **Files x Services**

...php Upload.php x backup.php x index.php x local_restore.php x online_restore.php x Delete.php x Extract.php x

Source History

388 }
389 break;
390
391 case "Month":
392 TypeExt("days");
393 \$sqlResult = mysqli_query(\$connect, "INSERT INTO first (SELECT LEFT(SUBSTRING(StartTime ,9),2)
394 \$sqlResult = mysqli_query(\$connect, "INSERT INTO second (SELECT LEFT(SUBSTRING(StartTime ,9),2)
395 \$sqlResult = mysqli_query(\$connect, "INSERT INTO third (SELECT LEFT(SUBSTRING(StartTime ,9),2)
396 \$sqlResult = mysqli_query(\$connect, "INSERT INTO fourth (SELECT LEFT(SUBSTRING(StartTime ,9),2)
397
398 \$sqlResult = mysqli_query(\$connect, "INSERT INTO data VALUES(1,(SELECT Sum(Exams) FROM first));
399 \$sqlResult = mysqli_query(\$connect, "INSERT INTO data VALUES(2,(SELECT Sum(Exams) FROM second));
400 \$sqlResult = mysqli_query(\$connect, "INSERT INTO data VALUES(3,(SELECT Sum(Exams) FROM third));
401 \$sqlResult = mysqli_query(\$connect, "INSERT INTO data VALUES(4,(SELECT Sum(Exams) FROM fourth));
402
403 if (\$report != 3) {
404 \$sqlResult = mysqli_query(\$connect, "SELECT StartTime,Exams FROM data");
405 } else {
406 \$sqlResult = mysqli_query(\$connect, "INSERT INTO data (SELECT LEFT(SUBSTRING(StartTime ,12),
407 \$sqlResult = mysqli_query(\$connect, "SELECT StartTime, SUM(Exams) as 'Exams' FROM data GROUP
408 }
409 break;
410
411 case "Year":
412 //echo "Grab it alllll up, \$filterResult!";
413 TypeExt("month");
414 if (\$report != 3) {
415 \$sqlResult = mysqli_query(\$connect, "SELECT LEFT(SUBSTRING(StartTime ,6),2) as month, Count
416 } else {
417 ClearRecords("data");
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
599
600
601
602
603
604
605
606
607
608
609
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
639
640
641
642
643
644
645
646
647
648
649
649
650
651
652
653
654
655
656
657
658
659
659
660
661
662
663
664
665
666
667
668
669
669
670
671
672
673
674
675
676
677
678
679
679
680
681
682
683
684
685
686
687
688
689
689
690
691
692
693
694
695
696
697
698
699
699
700
701
702
703
704
705
706
707
708
709
709
710
711
712
713
714
715
716
717
718
719
719
720
721
722
723
724
725
726
727
728
729
729
730
731
732
733
734
735
736
737
738
739
739
740
741
742
743
744
745
746
747
748
749
749
750
751
752
753
754
755
756
757
758
759
759
760
761
762
763
764
765
766
767
768
769
769
770
771
772
773
774
775
776
777
778
779
779
780
781
782
783
784
785
786
787
788
789
789
790
791
792
793
794
795
796
797
798
799
799
800
801
802
803
804
805
806
807
808
809
809
810
811
812
813
814
815
816
817
818
819
819
820
821
822
823
824
825
826
827
828
829
829
830
831
832
833
834
835
836
837
838
839
839
840
841
842
843
844
845
846
847
848
849
849
850
851
852
853
854
855
856
857
858
859
859
860
861
862
863
864
865
866
867
868
869
869
870
871
872
873
874
875
876
877
878
879
879
880
881
882
883
884
885
886
887
888
889
889
890
891
892
893
894
895
896
897
898
899
899
900
901
902
903
904
905
906
907
908
909
909
910
911
912
913
914
915
916
917
918
919
919
920
921
922
923
924
925
926
927
928
929
929
930
931
932
933
934
935
936
937
938
939
939
940
941
942
943
944
945
946
947
948
949
949
950
951
952
953
954
955
956
957
958
959
959
960
961
962
963
964
965
966
967
968
969
969
970
971
972
973
974
975
976
977
978
979
979
980
981
982
983
984
985
986
987
988
989
989
990
991
992
993
994
995
996
997
998
999
999
1000
1001
1002
1003
1004
1005
1006
1007
1008
1009
1009
1010
1011
1012
1013
1014
1015
1016
1017
1018
1019
1019
1020
1021
1022
1023
1024
1025
1026
1027
1028
1029
1029
1030
1031
1032
1033
1034
1035
1036
1037
1038
1039
1039
1040
1041
1042
1043
1044
1045
1046
1047
1048
1049
1049
1050
1051
1052
1053
1054
1055
1056
1057
1058
1059
1059
1060
1061
1062
1063
1064
1065
1066
1067
1068
1069
1069
1070
1071
1072
1073
1074
1075
1076
1077
1078
1079
1079
1080
1081
1082
1083
1084
1085
1086
1087
1088
1089
1089
1090
1091
1092
1093
1094
1095
1096
1097
1098
1099
1099
1100
1101
1102
1103
1104
1105
1106
1107
1108
1109
1109
1110
1111
1112
1113
1114
1115
1116
1117
1118
1119
1119
1120
1121
1122
1123
1124
1125
1126
1127
1128
1129
1129
1130
1131
1132
1133
1134
1135
1136
1137
1138
1139
1139
1140
1141
1142
1143
1144
1145
1146
1147
1148
1149
1149
1150
1151
1152
1153
1154
1155
1156
1157
1158
1159
1159
1160
1161
1162
1163
1164
1165
1166
1167
1168
1169
1169
1170
1171
1172
1173
1174
1175
1176
1177
1178
1179
1179
1180
1181
1182
1183
1184
1185
1186
1187
1188
1189
1189
1190
1191
1192
1193
1194
1195
1196
1197
1198
1199
1199
1200
1201
1202
1203
1204
1205
1206
1207
1208
1209
1209
1210
1211
1212
1213
1214
1215
1216
1217
1218
1219
1219
1220
1221
1222
1223
1224
1225
1226
1227
1228
1229
1229
1230
1231
1232
1233
1234
1235
1236
1237
1238
1239
1239
1240
1241
1242
1243
1244
1245
1246
1247
1248
1249
1249
1250
1251
1252
1253
1254
1255
1256
1257
1258
1259
1259
1260
1261
1262
1263
1264
1265
1266
1267
1268
1269
1269
1270
1271
1272
1273
1274
1275
1276
1277
1278
1279
1279
1280
1281
1282
1283
1284
1285
1286
1287
1288
1289
1289
1290
1291
1292
1293
1294
1295
1296
1297
1298
1299
1299
1300
1301
1302
1303
1304
1305
1306
1307
1308
1309
1309
1310
1311
1312
1313
1314
1315
1316
1317
1318
1319
1319
1320
1321
1322
1323
1324
1325
1326
1327
1328
1329
1329
1330
1331
1332
1333
1334
1335
1336
1337
1338
1339
1339
1340
1341
1342
1343
1344
1345
1346
1347
1348
1349
1349
1350
1351
1352
1353
1354
1355
1356
1357
1358
1359
1359
1360
1361
1362
1363
1364
1365
1366
1367
1368
1369
1369
1370
1371
1372
1373
1374
1375
1376
1377
1378
1379
1379
1380
1381
1382
1383
1384
1385
1386
1387
1388
1389
1389
1390
1391
1392
1393
1394
1395
1396
1397
1398
1399
1399
1400
1401
1402
1403
1404
1405
1406
1407
1408
1409
1409
1410
1411
1412
1413
1414
1415
1416
1417
1418
1419
1419
1420
1421
1422
1423
1424
1425
1426
1427
1428
1429
1429
1430
1431
1432
1433
1434
1435
1436
1437
1438
1439
1439
1440
1441
1442
1443
1444
1445
1446
1447
1448
1449
1449
1450
1451
1452
1453
1454
1455
1456
1457
1458
1459
1459
1460
1461
1462
1463
1464
1465
1466
1467
1468
1469
1469
1470
1471
1472
1473
1474
1475
1476
1477
1478
1479
1479
1480
1481
1482
1483
1484
1485
1486
1487
1488
1489
1489
1490
1491
1492
1493
1494
1495
1496
1497
1498
1499
1499
1500
1501
1502
1503
1504
1505
1506
1507
1508
1509
1509
1510
1511
1512
1513
1514
1515
1516
1517
1518
1519
1519
1520
1521
1522
1523
1524
1525
1526
1527
1528
1529
1529
1530
1531
1532
1533
1534
1535
1536
1537
1538
1539
1539
1540
1541
1542
1543
1544
1545
1546
1547
1548
1549
1549
1550
1551
1552
1553
1554
1555
1556
1557
1558
1559
1559
1560
1561
1562
1563
1564
1565
1566
1567
1568
1569
1569
1570
1571
1572
1573
1574
1575
1576
1577
1578
1579
1579
1580
1581
1582
1583
1584
1585
1586
1587
1588
1589
1589
1590
1591
1592
1593
1594
1595
1596
1597
1598
1599
1599
1600
1601
1602
1603
1604
1605
1606
1607
1608
1609
1609
1610
1611
1612
1613
1614
1615
1616
1617
1618
1619
1619
1620
1621
1622
1623
1624
1625
1626
1627
1628
1629
1629
1630
1631
1632
1633
1634
1635
1636
1637
1638
1639
1639
1640
1641
1642
1643
1644
1645
1646
1647
1648
1649
1649
1650
1651
1652
1653
1654
1655
1656
1657
1658
1659
1659
1660
1661
1662
1663
1664
1665
1666
1667
1668
1669
1669
1670
1671
1672
1673
1674
1675
1676
1677
1678
1679
1679
1680
1681
1682
1683
1684
1685
1686
1687
1688
1689
1689
1690
1691
1692
1693
1694
1695
1696
1697
1698
1699
1699
1700
1701
1702
1703
1704
1705
1706
1707
1708
1709
1709
1710
1711
1712
1713
1714
1715
1716
1717
1718
1719
1719
1720
1721
1722
1723
1724
1725
1726
1727
1728
1729
1729
1730
1731
1732
1733
1734
1735
1736
1737
1738
1739
1739
1740
1741
1742
1743
1744
1745
1746
1747
1748
1749
1749
1750
1751
1752
1753
1754
1755
1756
1757
1758
1759
1759
1760
1761
1762
1763
1764
1765
1766
1767
1768
1769
1769
1770
1771
1772
1773
1774
1775
1776
1777
1778
1779
1779
1780
1781
1782
1783
1784
1785
1786
1787
1788
1789
1789
1790
1791
1792
1793
1794
1795
1796
1797
1798
1799
1799
1800
1801
1802
1803
1804
1805
1806
1807
1808
1809
1809
1810
1811
1812
1813
1814
1815
1816
1817
1818
1819
1819
1820
1821
1822
1823
1824
1825
1826
1827
1828
1829
1829
1830
1831
1832
1833
1834
1835
1836
1837
1838
1839
1839
1840
1841
1842
1843
1844
1845
1846
1847
1848
1849
1849
1850
1851
1852
1853
1854
1855
1856
1857
1858
1859
1859
1860
1861
1862
1863
1864
1865
1866
1867
1868
1869
1869
1870
1871
1872
1873
1874
1875
1876
1877
1878
1879
1879
1880
1881
1882
1883
1884
1885
1886
1887
1888
1889
1889
1890
1891
1892
1893
1894
1895
1896
1897
1898
1899
1899
1900
1901
1902
1903
1904
1905
1906
1907
1908
1909
1909
1910
1911
1912
1913
1914
1915
1916
1917
1918
1919
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1939
1940
1941
1942
1943
1944
1945
1946
1947
1948
1949
1949
1950
1951
1952
1953
1954
1955
1956
1957
1958
1959
1959
1960
1961
1962
1963
1964
1965
1966
1967
1968
1969
1969
1970
1971
1972
1973
1974
1975
1976
1977
1978
1979
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035
2036
2037
2038
2039
2039
2040
2041
2042
2043
2044
2045
2046
2047
2048
2049
2049
2050
2051
2052
2053
2054
2055
2056
2057
2058
2059
2059
2060
2061
2062
2063
2064
2065
2066
2067
2068
2069
2069
2070
2071
2072
2073
2074
2075
2076
2077
2078
2079
2079
2080
2081
2082
2083
2084
2085
2086
2087
2088
2089
2089
2090
2091
2092
2093
2094
2095
2096
2097
2098
2099
2099
2100
2101
2102
2103
2104
2105
2106
2107
2108
2109
2109
2110
2111
2112
2113
2114
2115
2116
2117
2118
2119
2119
2120
2121
2122
2123
2124
2125
2126
2127
2128
2129
2129
2130
2131
2132
2133
2134
2135
2136
2137
2138
2139
2139
2140
2141
2142
2143
2144
2145
2146
2147
2148
2149
2149
2150
2151
2152
2153
2154
2155
2156
2157
2158
2159
2159
2160
2161
2162
2163
2164
2165
2166
2167
2168
2169
2169
2170
2171
2172
2173
2174
2175
2176
2177
2178
2179
2179
2180
2181
2182
2183
2184
2185
2186
2187
2188
2189
2189
2190
2191
2192
2193
2194
2195
2196
2197
2198
2199
2199
2200
2201
2202
2203
2204
2205
2206
2207
2208
2209
2209
2210
2211
2212
2213
2214
2215
2216
2217
2218
2219
2219
2220
2221
2222
2223
2224
2225
2226
2227
2228
2229
2229
2230
2231
2232
2233
2234
2235
2236
2237
2238
2239
2239
2240
2241
2242
2243
2244
2245
2246
2247
2248
2249
2249
2250
2251
2252
2253
2254
2255
2256
2257
2258
2259
2259
2260
2261
2262
2263
2264
2265
2266
2267
2268
2269
2269
2270
2271
2272
2273
2274
2275
2276
2277
2278
2279
2279
2280
2281
2282
2283
2284
2285
2286
2287
2288
2289
2289
2290
2291
2292
2293
2294
2295
2296
2297
2298
2299
2299
2300
2301
2302
2303
2304
2305
2306
2307
2308

UNISAPortal - NetBeans IDE 8.0.2

File Edit View Navigate Source Refactor Run Debug Team Tools Window Help

<default>

Projects Files Services

...php Upload.php backup.php index.php local_restore.php online_restore.php Delete.php Extract.php

Source History

409 break;
410
411 case "Year":
412 //echo "Grab it alllll up, \$filterResult!";
413 TypeExt("month");
414 if (\$report != 3) {
415 \$sqlResult = mysqli_query(\$connect, "SELECT LEFT(SUBSTRING(StartTime ,6),2) as month, Count(*) as 'Total' FROM data GROUP BY month");
416 echo "INSERT INTO data(SELECT LEFT(SUBSTRING(StartTime ,6),2) as month, COUNT(*) as 'Total' FROM data GROUP BY month)";
417 \$sqlResult = mysqli_query(\$connect, "INSERT INTO data(SELECT LEFT(SUBSTRING(StartTime ,6),2) as month, COUNT(*) as 'Total' FROM data GROUP BY month)");
418 \$sqlResult = mysqli_query(\$connect, "SELECT StartTime as month, SUM(Exam) as 'Total' FROM data GROUP BY month");
419
420 }
421 break;
422 }
423
424 }
425
426
427 function TypeExt(\$str) {
428 global \$first_param, \$send_param, \$report, \$totExam;
429 if (\$report == 3) {
430 \$send_param = "GROUP BY Stu_Mail HAVING COUNT(*) > \$totExam";
431 } else {
432 \$send_param = "GROUP BY \$str"; //same as above
433 }
434
435 //Solution for Trend report
436 "Count(*) as 'Total'"; //replace this with bottom. OR create variable
437 "Stu_Mail as Total";
438 }

Navigator

CalExpTrn()
CalSummary()
ClearRecords(\$type)
DateCalc()
ExamMod(\$modCode)
GrabModule()
GrabType()
TypeExt(\$str)

Filters:

UNISAPortal - NetBeans IDE 8.0.2

```

function ExamMod($modCode) {
    global $connect, $examType, $report;
    if ($report == 4) {
        $examType = "late_sub";
    } else {
        $sqlQuery = "select ExamType FROM exam where Mod_Code = '" . $modCode . "'"; //was * before
        $sqlResult = mysqli_query($connect, $sqlQuery);
        $returnVal = mysqli_fetch_assoc($sqlResult);

        if ($returnVal['ExamType'] == "MCQ") {
            $examType = "mcq_ans";
        } else if ($returnVal['ExamType'] == "Fill-in") {
            $examType = "fill_ans";
        } else if ($returnVal['ExamType'] == "Document Upload") {
            $examType = "upload_ans";
        }
    }
}

function CalcExpTrn() {
    global $filter, $filterResult, $connect, $sqlQuery, $sqlResult, $returnVal, $now, $report,
        $sqlQuery = "INSERT INTO data(SELECT Stu_Mail, COUNT(*) as exams FROM $filterResult WHERE StartTime > '$now' AND ExamType = '$examType')";

    echo $sqlQuery;
    $sqlQuery = "SELECT Count(*) AS students FROM data";

    $sqlResult = mysqli_query($connect, $sqlQuery); //mysqli_fetch_assoc($returnVal);
}

```

UNISAPortal - NetBeans IDE 8.0.2

```

} else if ($returnVal['ExamType'] == "Fill-in") {
    $examType = "fill_ans";
} else if ($returnVal['ExamType'] == "Document Upload") {
    $examType = "upload_ans";
}

function CalcExpTrn() {
    global $filter, $filterResult, $connect, $sqlQuery, $sqlResult, $returnVal, $now, $report,
        $sqlQuery = "INSERT INTO data(SELECT Stu_Mail, COUNT(*) as exams FROM $filterResult WHERE StartTime > '$now' AND ExamType = '$examType')";

    echo $sqlQuery;
    $sqlQuery = "SELECT Count(*) AS students FROM data";

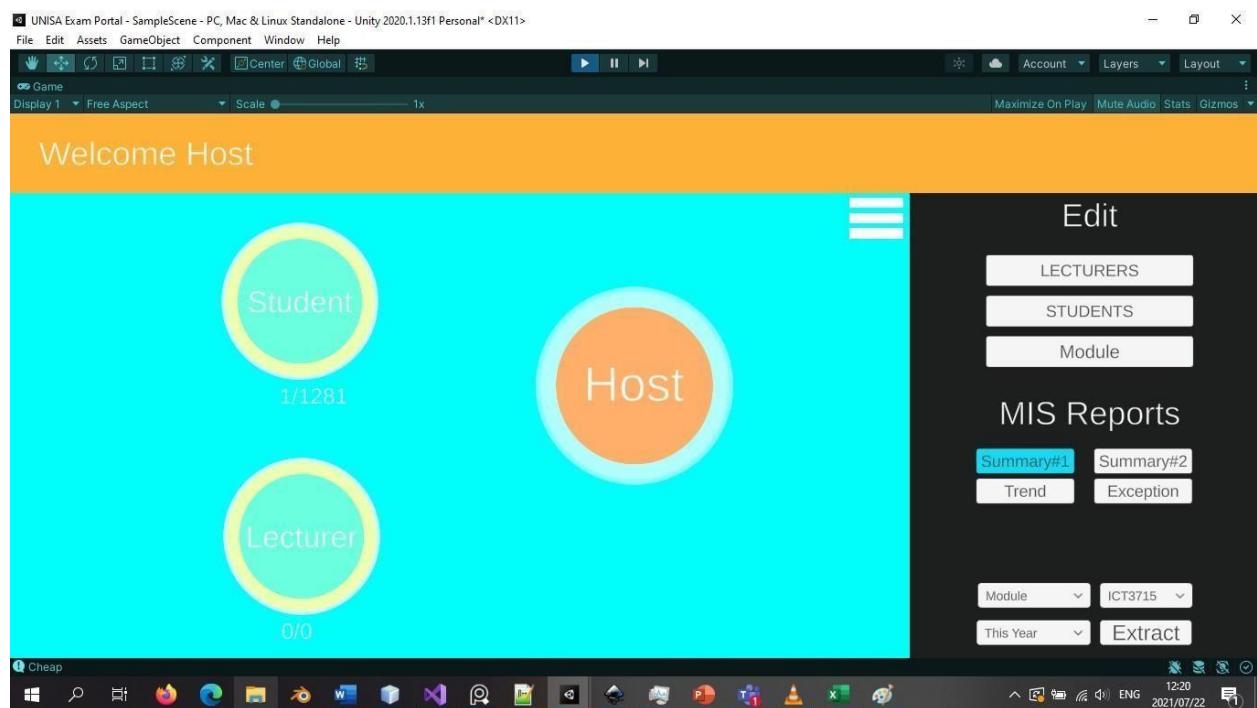
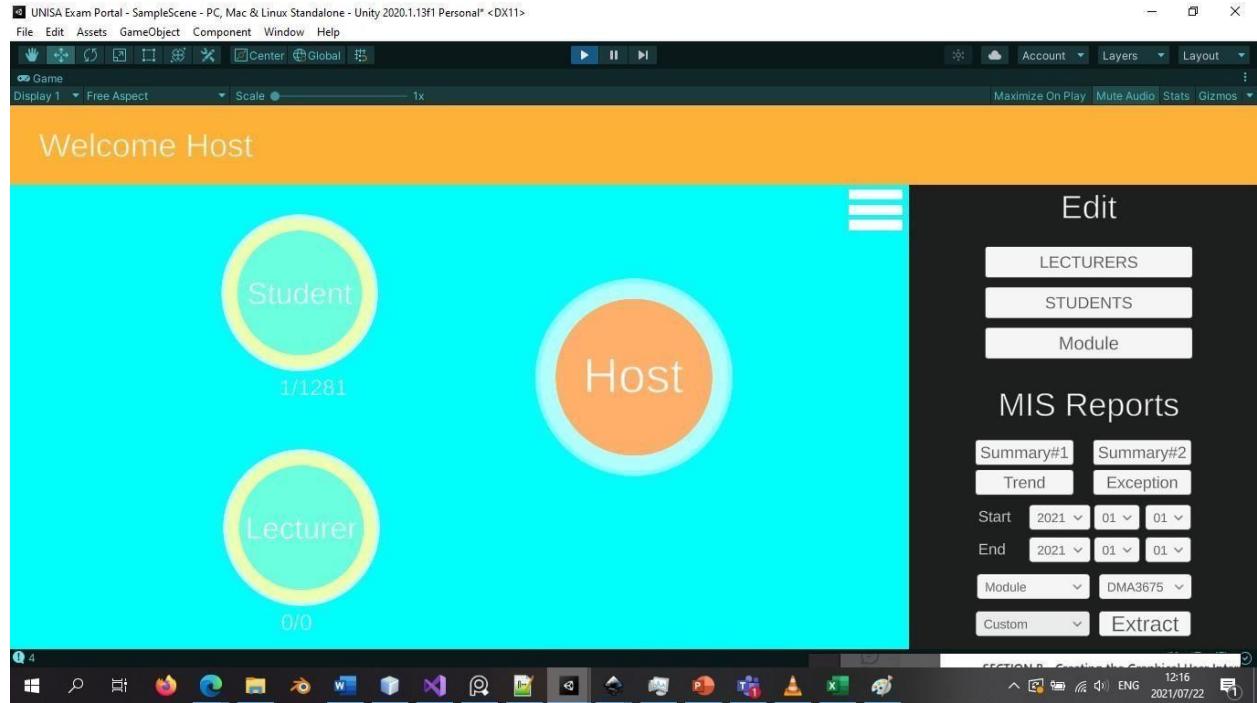
    $sqlResult = mysqli_query($connect, $sqlQuery); //mysqli_fetch_assoc($returnVal);
    $returnVal = mysqli_fetch_assoc($sqlResult);
    $now = $returnVal['students'];
}

CalcSummary();

echo $now;
//echo "StartTime = $startDate and EndTime is $endDate";
/*
mysql_report(MYSQLI_REPORT_ERROR | MYSQLI_REPORT_STRICT);
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
*/

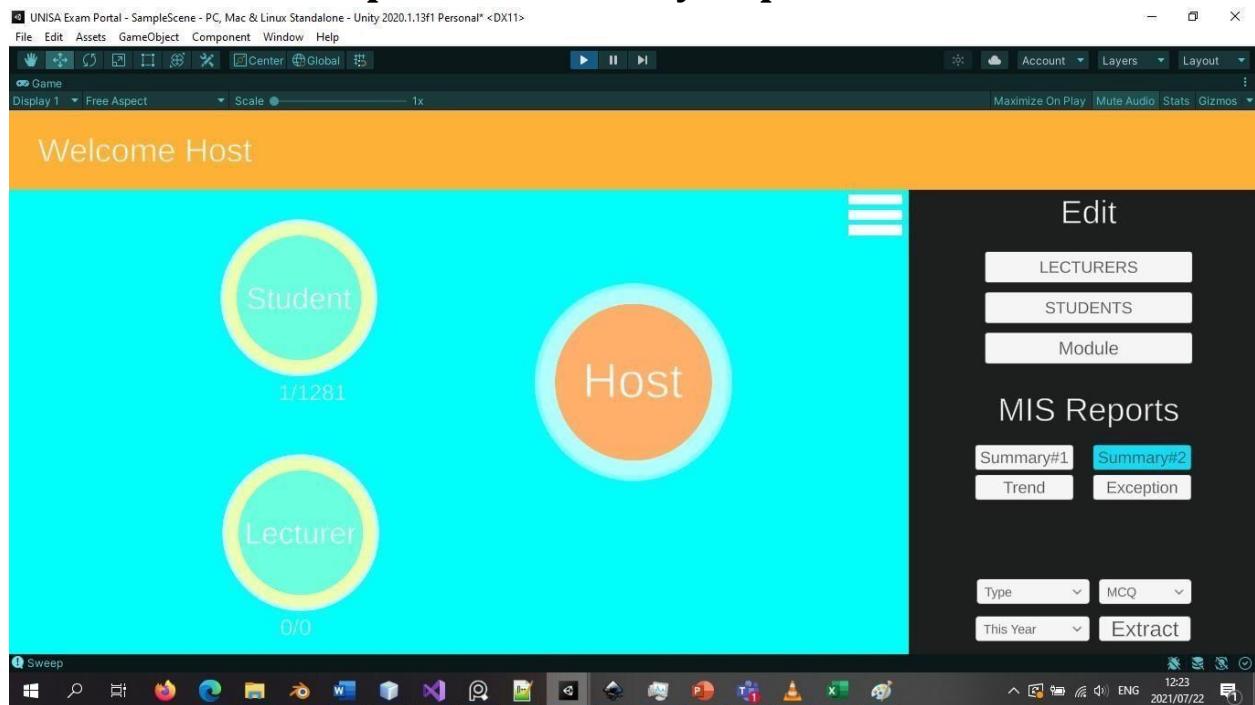
```

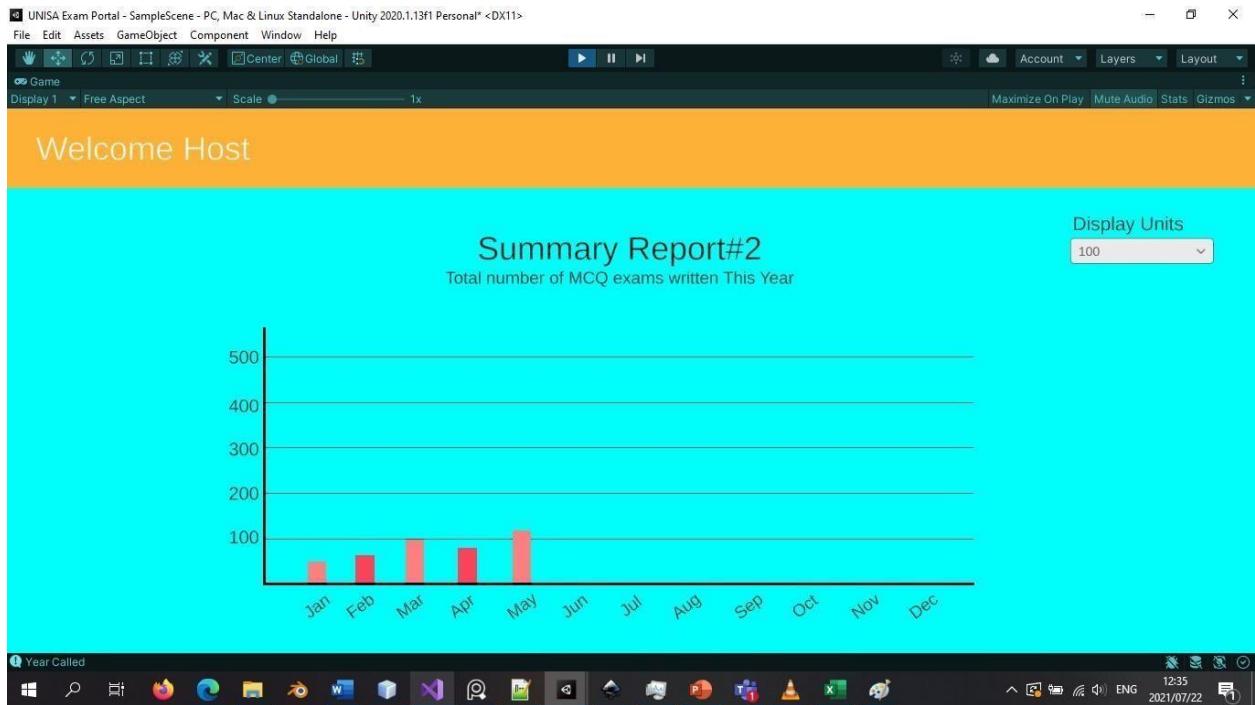
Reports - Summary Report#1



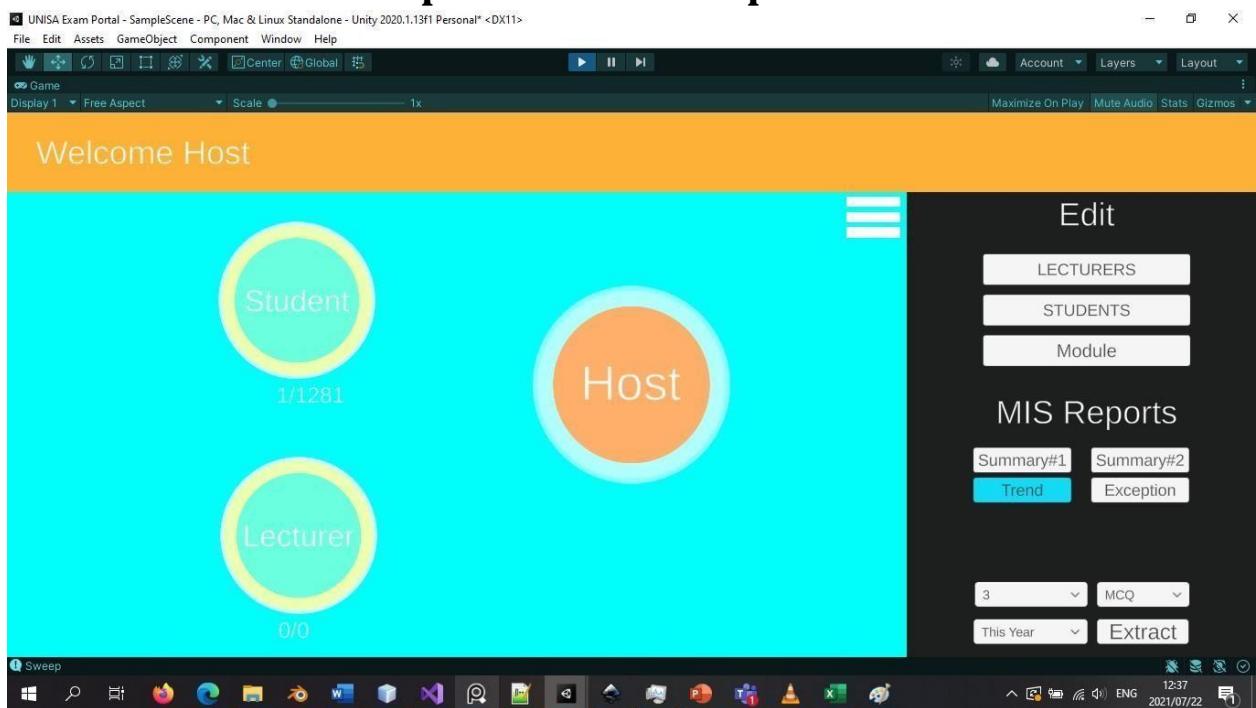


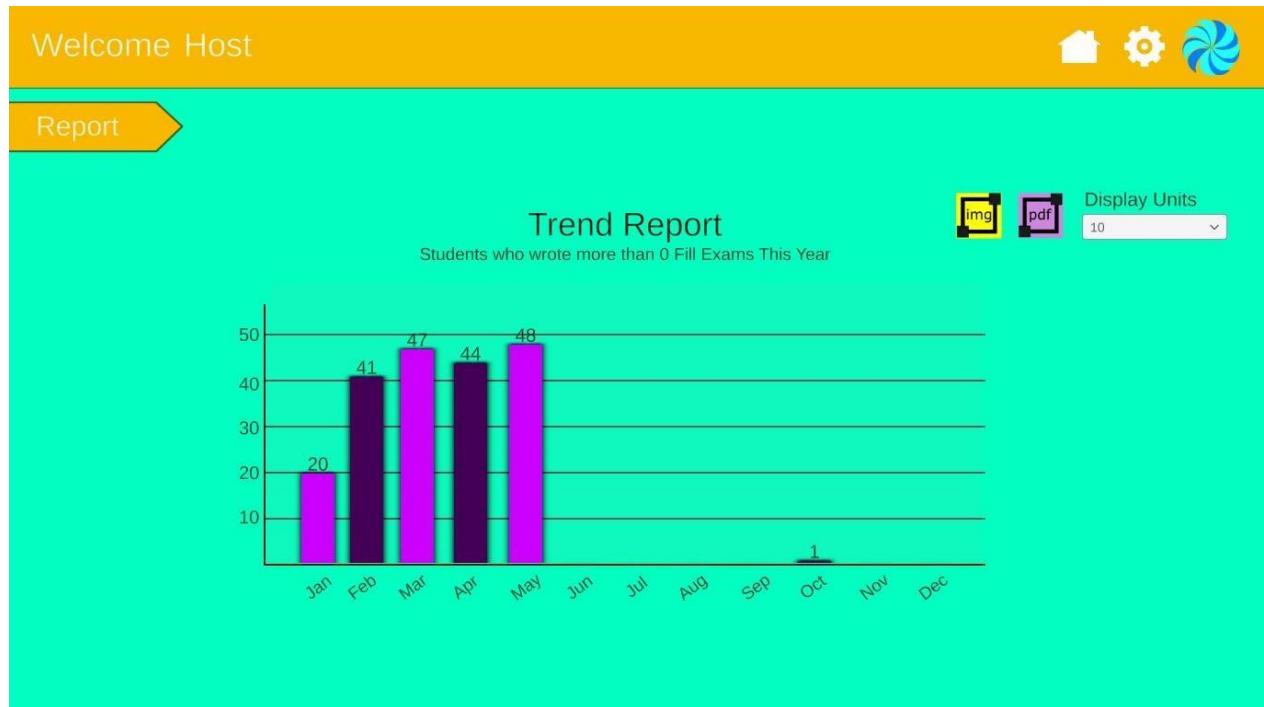
Reports – Summary Report#2





Reports - Trend Report





Reports – Exception Report

UNISA Exam Portal - SampleScene - PC, Mac & Linux Standalone - Unity 2020.1.13f1 Personal <DX11>

File Edit Assets GameObject Component Window Help

Game Display 1 Free Aspect Scale 1x Maximize On Play Mute Audio Stats Gizmos

Welcome Host

User Type	Count
Student	1/1281
Host	0/0
Lecturer	0/0

Edit

- LECTURERS
- STUDENTS
- Module

MIS Reports

- Summary#1
- Summary#2
- Trend
- Exception

Module ICT3715
This Year Extract

Welcome Host



Report

Exception Report

Students who did not finish writing AllThis Year



Display Units

10

