A Project Report

on

VIRTUAL CLASSROOM

Submitted in partial fulfillment of

therequirementfortheawardofthedegreeof

BachelorofTechnologyinComputerScienceandEnginee ring

Under The Supervision of
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SCHOOLOFCOMPUTINGSCIENCEANDENGINEERING
GALGOTIASUNIVERSITY,GREATERNOIDA

CANDIDATE'SDECLARATION

I/We hereby certify that the work which is being presented in the project, entitled **" Virtual ClassRoom "** in partial fulfillment of the requirements for the award of the**BACHELOROFTECHNOLOGYINCOMPUTERSCIENCEANDENGINEERING** submittedinthe**SchoolofComputingScienceandEngineering**ofGalgotiasUniversity,GreaterNoida , is an original work carried out during the period of **JULY-2021 to DECEMBER-2021**,underthesupervisionof**Mr.RajeshKumar,AssistantProfessor**,**DepartmentofComputerScienceand Engineering** of School of Computing Science and Engineering , Galgotias University,Greater Noida

Thematterpresentedintheprojecthasnotbeensubmittedbyme/usfortheawardofanyotherdegreeof thisoranyotherplaces.

18SCSE1050018-VAIBHAV AGARWAL

18SCSE1120020-AKSHAT SWAMI

This is to certify that the above statement made by the candidates is correct to the best of myknowledge.

Supervisor(Mr.R

ajesh kumar,AssistantProfessor)

CERTIFICATE

The Final Thesis/Project/ Dissertation Viva-Voce examination of **18SCSE1050018-VAIBHAV AGARWAL,18SCSE1120020-AKSHAT SWAMI**hasbeenheldon_____and his/herwork is recommended for the award of **BACHELOR OF TECHNOLOGY IN COMPUTERSCIENCEANDENGINEERING**.

SignatureofExaminer(s) **SignatureofSupervisor(s)**

SignatureofProjectCoordinator **SignatureofDean**

Date:

Place:

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ABSTRACT:-

Studies show that students who study at a distance may be more inclined to isolatethemselves and a lack of 'presence' and support, which could adversely affect theirlearningandperformance.Recently,theemergenceofhigh-speedaffordable,affordableandreliablebroadbandmeansanewlistofdigital,supportandsynchronization.

The interaction between students and faculty makes online learning more effective,thusitcan help to solvesomeof theseproblems.

This paper presents the findings of a study involving graduate students using AdobeConnect with Wimba Live visual classes to present a series of seminars as part ofWaikato University's Postgraduate Diploma in Education. Explores students' ideas onthe importance of classes in building relationships ,supporting communicationaswellinteraction,and exploresthefactors thathavecontributedto this.

The results show that while virtual the use of the classroom is well-regarded, yourvalueinfluencedbywork,communicationtools,multimediaapplicationsandtechnical / editing features — some of which were much more than that studentcontrol.

These issues will be considered and discussed, with recommendations presented toteachers who are considering using visual classes to supporttheir online courselearningprograms.

Keywords:-synchronous;virtual;classroom;interaction;isolation;presence;dialogue

INTRODUCTION

Extensive research is available that highlights the importance of communication,communication, and building relationships in distance learning (Collis, 1996; Gosmire,Morrison&van Osdel,2009;Picciano,2002).

However,fromtheearliestdays ofteachingthegrades,therewereproblemswhatisclearabouthow thiscanbestbeachievedwithlocalstudentstheyarescattered.

Research shows that students who study far away may be less prone to depressionisolation and psychological distance — and these ideas can have a detrimental effect onthemperformanceand rolein academic retentionissues(Moore&Kearsley,1996).

Recently, access to technology and performance improvements have opened up newopportunitiesforteachersandstudentstoengageandcommunicateinalmostthesameway face to face conditions, using advanced technology in compatible environmentssuchas visualclasses orGooglePlus.

However, few teachers have tested this ability, instead choosing only for standardsyncyoussystemslikeMoodle,BlackboardLearn,orDesire2Learn.bestpracticestobetrailed by clients while putting away and overseeing passwords in a productive way togetpasswords howevermuch theycanto forestallunapprovedaccess.

FORMULATIONOFPROBLEM

The results suggest that visual classes can make a significant contribution to the ODL,especiallyoflearning-integrationofthecommunity,whichprovidesavarietyofinteraction and communication options knowledge, and to develop and / or maintainsupportiverelationshipsbetween studentsand teachers.

However, the results also show that maximizing benefits from synchronous areas needgreatstudent and teacher preparation and knowledge,and thatthey

work for consistent, but very different purposes, in disagreements. This The study hasseveralimplicationsforthoseconsideringconsideringhigh-performanceclasseseducation.

First, if the goal is to use classrooms to do ‘advanced’ or assessment tasks, pre-work isappropriate done with students to develop adequate knowledge of the tools andunderstanding of The skills of multimedia classes so that they can use them effectivelyinrepresentation results.

Thisappliesespeciallytoproceduresforaccessingexternalwebsites,streamingaudioorvideo, using functions such as slide annotation, and live document sharing. This study isconsistent with previous reports (Falloon, 2011b), in showing the dangers ofthinking.students have the knowledge, or will be able to independently, to use this tothe best of their ability profit. It is recommended that study time be developed for thedevelopment of this skill.It is also suggested that teachers should play an active roleherebecauseof theclassrooms function .

TECHNOLOGY USED:-

HTML

HTML (Hypertext Markup Language) is the predominant markup language for webpages. It provides a means to describe the structure of text-based information in adocument by denoting certain text as headings, paragraphs, lists, and so on and tosupplement that text with interactive forms, embedded images, and other objects.HTML is written in the form of labels (known as tags), surrounded by angle brackets.AdvantagesofHTMare:-

- AHTMLdocumentissmalland henceeasytosendover thenet.Itissmallbecauseit doesnotincludeformattedinformation.
- HTMLisplatformindependent.
- HTMLtagsarenotcase-sensitive.

JAVASCRIPT

JavaScript is a script-based programming language that was developed by NetscapeCommunicationCorporation.JavaScriptwasoriginallycalledLiveScriptandrenamedasJavaScript to indicate its relationship with Java. JavaScript supports the development ofboth client and server components of Web-based applications. On the client side, it canbeused to writeprograms thatareexecutedbyaWebbrowserwithin thecontext ofa

Web page. On the server side, it can be used to write Web server programs that canprocess information submitted by a Web browser and then update the browser'sdisplayaccordingly.

CSS

CascadingStyleSheets(CSS)is astylesheetlanguageusedto describethepresentationof a document written in HTML or XML (including XML dialects such as SVG or XHTML).CSS describes how elements should be rendered on screen, on paper, in speech, or onothermedia

PHP

PHP is a server-side scripting language designed specifically for web development. PHPcan be easily embedded in HTML files and HTML codes can also be written in a PHP file.The thing that differentiates PHP with client-side language like HTML is, PHP codes areexecutedontheserverwhereas HTMLcodesaredirectlyrendered onthebrowser.

MySQL

MySQL is a relational database management system based on SQL – Structured QueryLanguage. The application is used for a wide range of purposes, including datawarehousing,e-commerce,andloggingapplications.ThemostcommonuseforMySQLhowever,is forthepurposeof aweb database.

LITERATURE SURVEY:-

- **Distancelearning:**a‘formofeducationinwhichthemainelementsincludephysicalseparation of teachers and students during instruction and the use of varioustechnologiestofacilitatestudent-teacherandstudent-studentcommunication.’[1]
- **Online learning:** ‘education that takes place over the internet’.[2]This can be subdividedinto *asynchronous online courses*that do not take place in real-time and *synchronousonlinecourses* in whichteacher andstudentinteractonlinesimultaneously.[3]
- **Blended learning:** a hybrid mode of interaction which combines face-to-face in-personmeetings with online interaction.[4]As blended learning is a hybrid model, either theface-to-face or the online elements may be dominant. So, for example, blended learningcan occur when online instructional tools are used to support face-to-face learning in aclassroom, or when some face-to-face instruction is interspersed with online learning aspartof alonger course.
- A**virtualschool:**‘anentityapprovedbyastateorgoverningbodythatoffers courses throughdistancedelivery–mostcommonlyusingtheinternet’.[5]
- **Self-regulatedlearning:**‘themodulationofaffective,cognitiveandbehavioural processesthroughoutalearningexperience inordertoreachadesiredlevelof achievement’. Self-regulating learning skills have been described as abilities such asplanning, managing and controlling the learning process.[7]Processes that occur duringself-regulatedlearningincludegoalsetting,metacognitionandself-assessment.[8]

DATAFLOWDIAGRAM

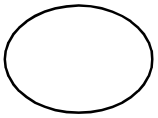
Dataflowdiagramsarewidelyusedformodelingforrequirements.DFDsshowtheflowofdatathroughasystem.TheDFDisalsoknownasadataflowgraphorabubblechart.

StandardsymbolusedforDFD

1. *DATAFLOW*

Itisusedtoconnectprocessestoeachother,tosourcesorsinks,thearrowheadindicationthedirection ofdataflow.

2. *PROCESS*



Itisusedtorepresentsometransformationofinputdatatoyieldoutputdata.

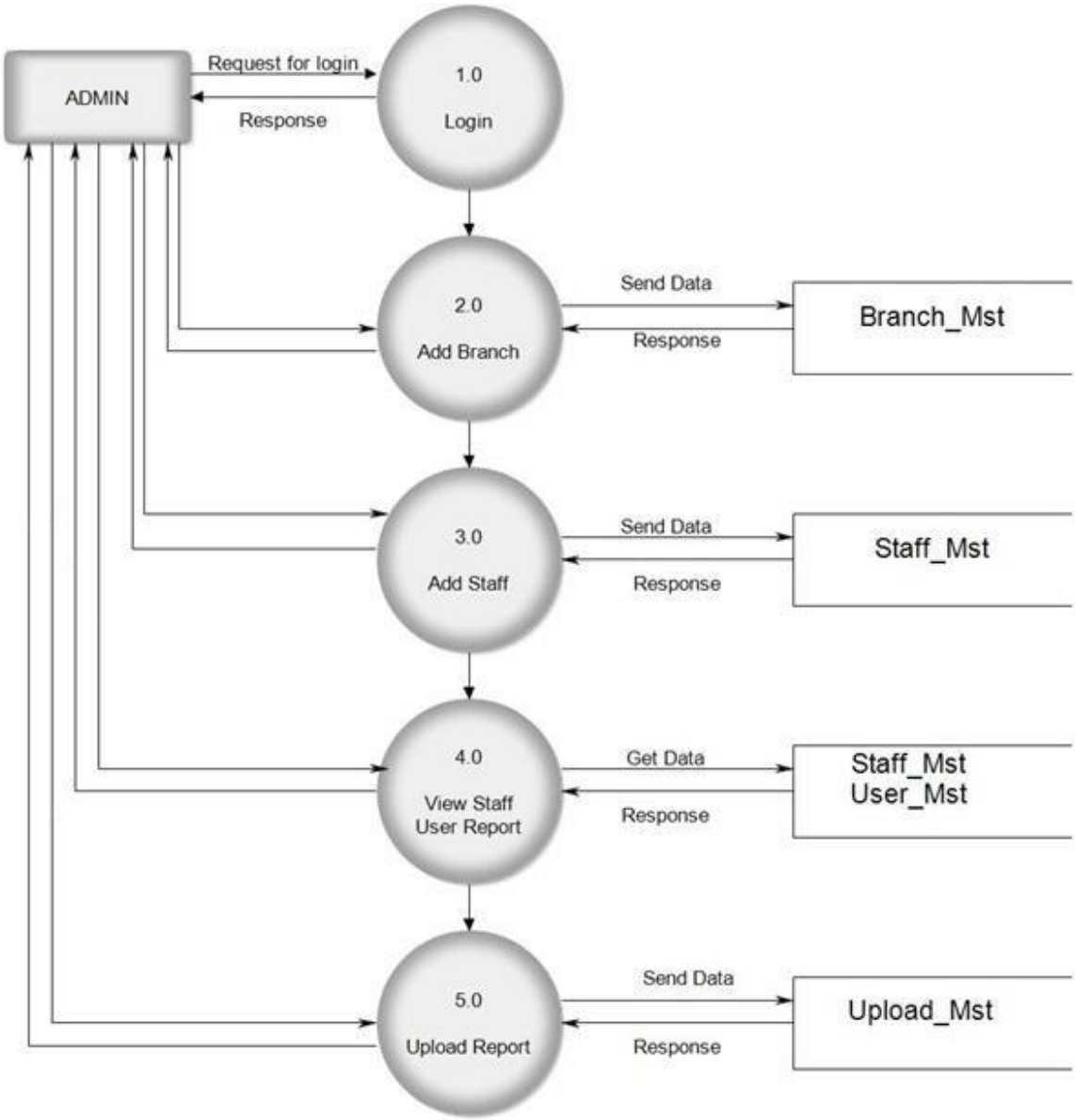
3. *SOURCE*

Asourceofsysteminputorsinksofsystemoutputs.

4. *DATASOURCE*

Itisusedforrepositoryofdata.Thearrowheadsindicatenetinputsand netoutputs.

User's1st LevelDFD



E-Rdiagram

An Entity-Relationship (ER) Diagram is a specialized graphic that illustrates theinterrelationships between entities in a database. ER diagrams often use symbols torepresent three different types of information. Boxes are commonly used to represententities. Diamonds are normally used to represent relationships and ovals are used torepresent attributes. If the application is primarily a database application, the entity-relationshipapproachcanbeusedeffectivelyformodelingsomepartsoftheproblem.Themain focusinERmodelingistheDataItemsinthesystemandtherelationship

betweenthem.ItaimstocreateconceptualschemefortheDatafromtheuser'sperspective.Themodelthus createdisindependent ofanymodels are:

Symbols used in E-R

diagramEntitybox

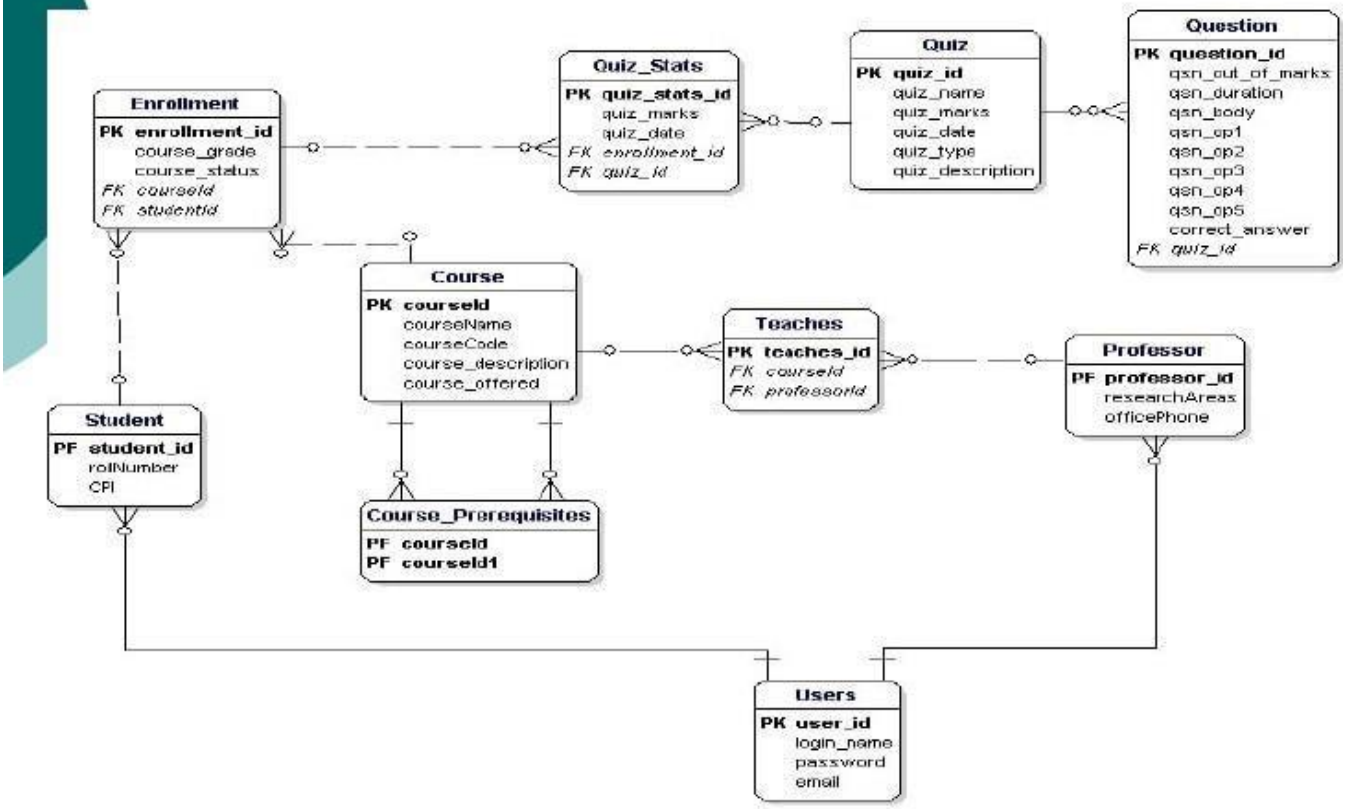
ThisboxcontainsaparticularEntity,whichmaybeanyobjectofrealworldorhypotheticalobject.

Attributesymbol

Thissymbolisusedordefiningtheattributesofaparticularentity.Diagonalsymbol

Thissymbolisusedtoestablishrelationshipamongvariousdepartmentsorclients,whichmay alsohave,attribute

E-R Diagram


Enrollment
PK enrollment_id
course_grade
course_status
FK courseId
FK studentId
Quiz_Stats
PK quiz_stats_id
quiz_marks
quiz_date
FK enrollment_id
FK quiz_id
Quiz
PK quiz_id
quiz_name
quiz_marks
quiz_date
quiz_type
quiz_description
Question
PK question_id
qsn_out_of_marks
qsn_duration
qsn_body
qsn_op1
qsn_op2
qsn_op3
qsn_op4
qsn_op5
correct_answer
FK quiz_id
Course
PK courseId
courseName
courseCode
course_description
course_offered
Teaches
PK teaches_id
FK courseId
FK professorId
Professor
PF professor_id
researchAreas
officePhone
Student
PF student_id
rollNumber
CPI
Course_Prerequisites
PF courseId
PF courseId1
Users
PK user_id
login_name
password
email

Tables

Attribute	Data type	Description	Keys
u_id	Varchar(20)	Id ofthe user	Primarykey
u_name	Char	Nameof theuser	notnull
u_password	varchar(15)	Passwordoftheuser	notnull
Address	varchar(100)	Addressoftheuser	notnull
Phno	integer(12)	Phonenumber ofthe user	notnull
Email	varchar(30)	Emailidof theuser	notnull

Admin

Attribute	Data type	Description	Keys
a_id	varchar(20)	Id oftheadmin	Primarykey
a_name	Char	Nameof theuser	notnull
a_password	varchar(15)	Passwordoftheadmin	notnull

STUDENTS

Attribute	Data type	Description	Keys
u_id	varchar(20)	Id ofthe user	Foreignkey
a_id	Varchar(25)	Id oftheadmin	Foreignkey
user_type	Char	Usertellaboutheservice	notnull
give_class	Char	User who provides the ride, thatthe user provides there route details.	notnull

ModulesDescription

1. StudentLogin:

Itenablesapersontologinasastudentorsignupifhe/shehasnotregisteredfortheclassroom.Oncelogged in astudent hasthefollowingfeatures:-

a) **EditProfile**:

Itallowsmodifyingthedetails

b) StudyMaterial&VideoLectures:

Itdisplays alistofppts&interactivevideolessonscategorizedbysubjectsaspostedbythefaculty

c) Askdoubts:

Itenablesthestudentsto askquestions

d) Answers:

Itshowstheanswersbytheteachers tothequestions askedbyvariousstudents

2. FacultyLogin:

It enables a person to login as a faculty member or sign up if he/she has not registered for the classroom.Oncelogged in afacultymemberhas thefollowingfeatures:-

a) EditProfile:

Itallowsmodifyingthedetails

b) StudyMaterial&VideoLectures:

Itallows thefacultymemberstopost& removeppts &videolessonsc) Doubts:

Itshowsallthequestions askedbythestudents

d)Answers:

Itenablesteachers toanswerthequestionsaskedbythestudents

3. AdministratorLogin

The administrator is the ultimate controller of the application with the highest authority.He/shehas

thefollowingfeatures:-

a)Student/Faculty:

It displays a list of students/faculty members registered for the classroomb)Student/Facultyreq:

It displays a list of students/faculty members whose sign up request is still

pendingc)PPT(pload/del)/Video(upload/del):

Itdisplaysalistofppts&videospostedbythefacultymembers.Theadministratorhasthepowertoremoveppts/videos fromthelistandupload accordingtowish

d) Question/Ans

Itdisplaysalistofquestionsaskedbystudents/answerstoquestions byteachers.Theadministratorhasthepower todeletequestions/answers from thelist.

TASKINFLUENCES:-

- The coded data under this sub-team refers to student perceptions of how much the classes supportthe purpose for which they were made, as well as any knowledge or limitations in this regard.Question list data pointed out that most students consider using classes in seminars as appropriateas well appropriate , but interviews reveal that some readers assume that the manner in whichtheseconversationswereconstructeddidnotmakethebestuseoftheirsynchronizationpower.
- Thedatasuggestedthattherewasaneedtointegratethenecessaryofflinepreparationharmonious internet interaction, so that what happens in the classroom should be deeper, more sopurposefulreading,withshallow,superficialconnections.Tomakethiseasier,itwastheysuggestedthatconferencesshould bebroadcastseveraleveningseach evening,
- Supporting presentations and notes should be made available in advance to allow others to reviewthen come up with answers and helpful questions, and there should be more time to follow updiscussionaftereachseminar.
- Thereisatensionbetweenthesituationandthefullnessusingclassroompowerto‘pushthe envelope’ about innovation ways to communicate information.Second, learning experiences thatrequire students to engage with feedback and communication it should be properly constructed,and guidelines should be developed to allow for the appropriate use of communication tools.
  Thisstudyrevealedthelimitationsofthevisualclassesoftopromotedeepunderstandingthroughdeepmeditation,as statedbyGarrison and Cleveland-Innes(2005).
- If one goal is for students to engage deeply with the material once and for all for the visual class tosupport this, presentations and formal analysis guidelines content should be provided in advance,using non-compliant methods. This also applies where it is anticipating student contribution andcollaborating with the work of others, through meaningful discussion and questions.Third, caremust be taken that the use of visual aids does not adversely affect them flexibility and choice ofstudents,underminingthereasons fortheir choiceof ODL.
- The results are encouraging something 'important' three to four times with a 12-week semestercourse,amaximumof 1½hours persession

Coding

```
        <%@ page language="java" contentType="text/html; charset=ISO-8859-1"pageEncoding="ISO-8859-
1"import="java.sql.*"%>

 <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01
Transitional//EN""http://www.w3.org/TR/html4/loose.dtd">

 <htmlclass="no-js"lang="zxx">

 <head>

 <metacharset="utf-8">

   <metahttp-equiv="x-ua-compatible"content="ie=edge">

       <title>AdminLogin</title>

       <metaname="description"content="">

   <metaname="viewport"content="width=device-width,initial-scale=1">

       <linkrel="manifest"href="site.webmanifest">

       <linkrel="shortcuticon"type="image/x-icon"href="assets/img/favicon.ico">


       <!--CSS here -->

       <linkrel="stylesheet"href="assets/css/bootstrap.min.css">

       <linkrel="stylesheet"href="assets/css/owl.carousel.min.css">

       <linkrel="stylesheet"href="assets/css/slicknav.css">

       <linkrel="stylesheet"href="assets/css/flaticon.css">

       <linkrel="stylesheet"href="assets/css/progressbar_barfiller.css">

       <linkrel="stylesheet"href="assets/css/gijgo.css">

       <linkrel="stylesheet"href="assets/css/animate.min.css">

       <linkrel="stylesheet"href="assets/css/animated-headline.css">

       <linkrel="stylesheet"href="assets/css/magnific-popup.css">
```

```
    <linkrel="stylesheet"href="assets/css/fontawesome-all.min.css">
    <linkrel="stylesheet"href="assets/css/themify-icons.css">
    <linkrel="stylesheet"href="assets/css/slick.css">
    <linkrel="stylesheet"href="assets/css/nice-select.css">
    <linkrel="stylesheet"href="assets/css/style.css">

</head>

<body>
    <!--? PreloaderStart -->
    <divid="preloader-active">
        <divclass="preloaderd-flexalign-items-centerjustify-content-center">
            <divclass="preloader-innerposition-relative">
                <divclass="preloader-circle"></div>
                <divclass="preloader-imgpere-text">
                    <imgsrc="assets/img/logo/loder.png"alt="">
                </div>
            </div>
        </div>
    </div>
    <!--PreloaderStart-->


    <mainclass="login-body">
        <!--LoginAdmin-->
```

```
        <form class="form-default" name="myform" action="admin_login.jsp"
method="POST"onsubmit="returnvalidate();">


            <%
                // if admin is already logged in to the system, redirect to the
                dashboardif(session.getAttribute("admin")!=null)
                {
                        response.sendRedirect("admin_dashboard.jsp");
                }
%>
              <divclass="login-form">
                <!--logo-login -->
                <divclass="logo-login">
                    <ahref="index.jsp"><imgsrc="assets/img/logo/loder.png"alt=""></a>
                </div>
                <h2>LoginHere</h2>
                <divclass="form-input">
                    <inputtype="password"name="password"placeholder="Password"required>
                </div>
                <pstyle="color:red">
                    <%
                // if password entered wrong, print error
                messageif(session.getAttribute("AdminErrorLogin")!=null)
                {
                        out.println((String)session.getAttribute("AdminErrorLogin"));
```

```
                }
%>
                 </p>
                 <divclass="form-inputpt-30">
                     <inputtype="submit"name="submit"value="login">
                 </div>
               </div>
               <%
                 //takepassword forvalidation
                 Stringpassword=request.getParameter("password");

                 try
                 {
                         // register the driverClass.forName("com.mysql.cj.jdbc.Driver");

                         //establish theconnection with thedatabase
                         Connection con
=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","Mypasswordis2425");

                         //createaSQLstatement
                         Statementstmt=con.createStatement();
                         Stringsql="select*fromadminwherepassword=SHA1('"+password+"')";

                         //executethestatement
```

```
                ResultSetrs=stmt.executeQuery(sql);

                // if admin password is in DB, redirect to dashboardif(rs.next())
                {
                        session.setAttribute("admin","admin");response.sendRedirect("admin_dashboard.jsp");
                }
                //ifpasswordiswrong,displayerrormessageelse
                {
                        session.setAttribute("AdminErrorLogin","InvalidPassword");
                }

                // close the
                connectioncon.close();
            }
            catch(Exceptione)
            {
                out.println(e);
            }
%>
    </form>
    <!--/end loginform-->
</main>
```

<!--JS here-->

<scriptsrc="./assets/js/vendor/modernizr-3.5.0.min.js"></script>

<!--Jquery,Popper,Bootstrap -->

<scriptsrc="./assets/js/vendor/jquery-1.12.4.min.js"></script>

<scriptsrc="./assets/js/popper.min.js"></script>

<scriptsrc="./assets/js/bootstrap.min.js"></script>

<!--Jquery MobileMenu-->

<scriptsrc="./assets/js/jquery.slicknav.min.js"></script>

<!--Videobg -->

<scriptsrc="./assets/js/jquery.vide.js"></script>

<!--JquerySlick,Owl-CarouselPlugins -->

<scriptsrc="./assets/js/owl.carousel.min.js"></script>

<scriptsrc="./assets/js/slick.min.js"></script>

<!--OnePage,Animated-HeadLin -->

<scriptsrc="./assets/js/wow.min.js"></script>

<scriptsrc="./assets/js/animated.headline.js"></script>

<scriptsrc="./assets/js/jquery.magnific-popup.js"></script>

<!--DatePicker -->

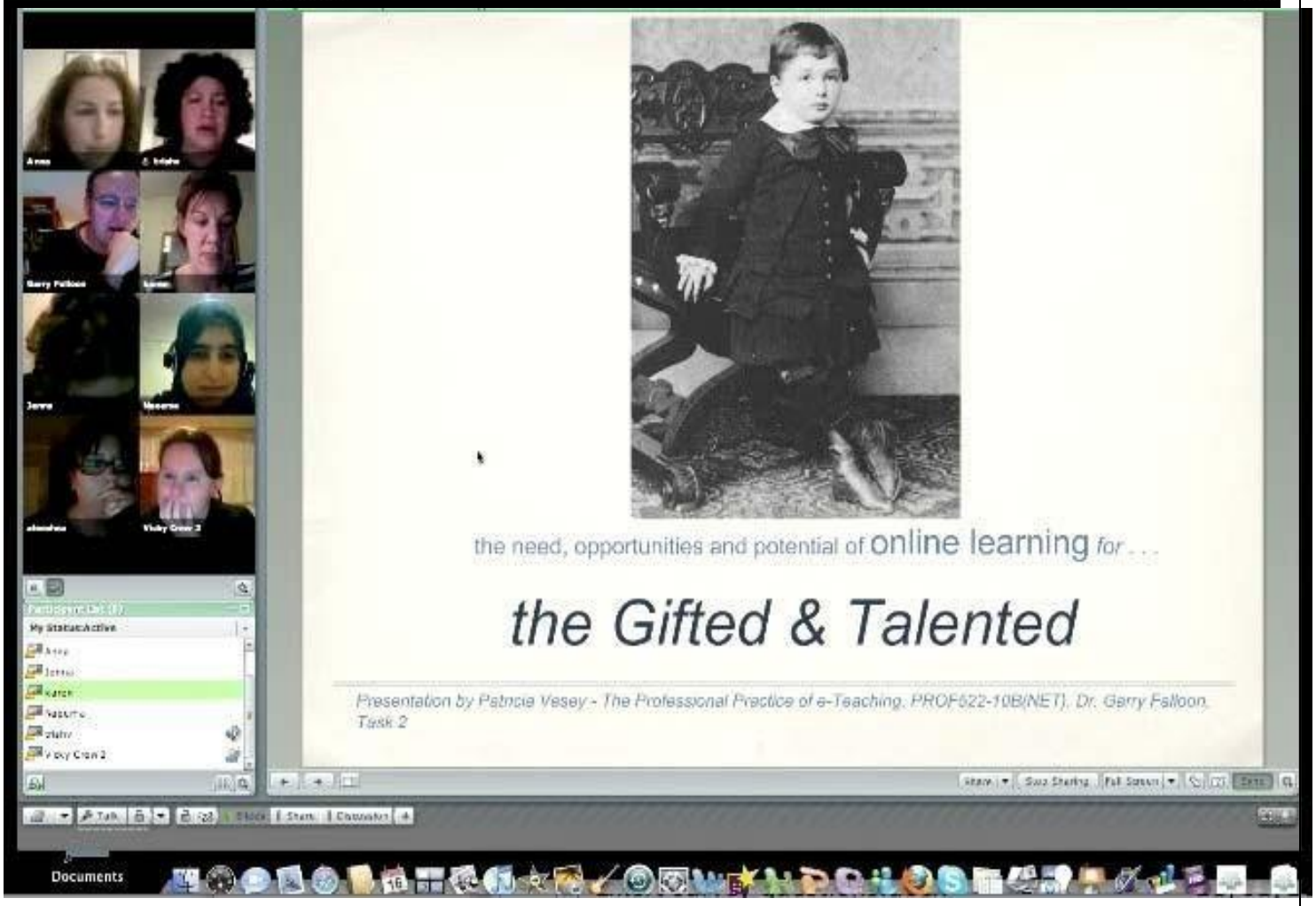
<scriptsrc="./assets/js/gijgo.min.js"></script>

<!--Nice-select,sticky-->

<scriptsrc="./assets/js/jquery.nice-select.min.js"></script>

```
    <scriptsrc="./assets/js/jquery.sticky.js"></script>
    <!--Progress-->
    <scriptsrc="./assets/js/jquery.barfiller.js"></script>

    <!--counter,waypoint,HoverDirection-->
    <scriptsrc="./assets/js/jquery.counterup.min.js"></script>
    <scriptsrc="./assets/js/waypoints.min.js"></script>
    <scriptsrc="./assets/js/jquery.countdown.min.js"></script>
    <scriptsrc="./assets/js/hover-direction-snake.min.js"></script>

    <!--contactjs -->
    <scriptsrc="./assets/js/contact.js"></script>
    <scriptsrc="./assets/js/jquery.form.js"></script>
    <scriptsrc="./assets/js/jquery.validate.min.js"></script>
    <scriptsrc="./assets/js/mail-script.js"></script>
    <scriptsrc="./assets/js/jquery.ajaxchimp.min.js"></script>

    <!--JqueryPlugins,main Jquery-->
    <scriptsrc="./assets/js/plugins.js"></script>
    <scriptsrc="./assets/js/main.js"></script>

</body>

</html>
```

The Typical Mobile Family
Digital Nomads
Education supported by the internet
The world is their classroom
Online community of learners
Networking
Archive
Content
Breakout Rooms
Reset Content Frame
1- Mobile Families The Digital Nomads of the 21st century
2- The Typical Mobile Family
3- How we see OUR education
4- Learning needs Access information
Archive Reminder
Do you want to archive this presentation?
Yes
No
Exit - Lobby -
Wimba


the need, opportunities and potential of online learning for . . .
the Gifted & Talented
Presentation by Patricia Vesey - The Professional Practice of e-Teaching, PROF522-10B(NET), Dr. Garry Falloon,
Task 2
Documents

STUDENTDASHBOARDCODE

Code

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"pageEncoding="ISO-8859-1"import="java.sql.*"%>

  <!DOCTYPEhtmlPUBLIC"-//W3C//DTDHTML4.01 Transitional//EN""http://www.w3.org/TR/html4/loose.dtd">


  <htmlclass="no-js"lang="zxx">


  <head>

    <metacharset="utf-8">

    <metahttp-equiv="x-ua-compatible"content="ie=edge">

    <title>VirtualClassroom</title>

    <meta name="description"content="">

    <meta name="viewport" content="width=device-width, initial-scale=1">

    <linkrel="manifest"href="site.webmanifest">

    <link rel="shortcut icon" type="image/x-icon"href="assets/img/favicon.ico">


    <!--CSShere-->

    <linkrel="stylesheet"href="assets/css/bootstrap.min.css">

    <linkrel="stylesheet"href="assets/css/owl.carousel.min.css">

    <linkrel="stylesheet"href="assets/css/slicknav.css">

    <linkrel="stylesheet"href="assets/css/flaticon.css">

    <link rel="stylesheet"href="assets/css/progressbar_barfiller.css">

    <linkrel="stylesheet"href="assets/css/gijgo.css">
```

```
        <linkrel="stylesheet"href="assets/css/animate.min.css">
        <linkrel="stylesheet"href="assets/css/animated-headline.css">
        <linkrel="stylesheet"href="assets/css/magnific-popup.css">
        <linkrel="stylesheet"href="assets/css/fontawesome-all.min.css">
        <linkrel="stylesheet"href="assets/css/themify-icons.css">
        <linkrel="stylesheet"href="assets/css/slick.css">
        <linkrel="stylesheet"href="assets/css/nice-select.css">
        <linkrel="stylesheet"href="assets/css/style.css">

    </head>

    <body>

        <%
                if(session.getAttribute("student")==null)
                                // checkifadminis alreadystudentinto
the system
                {
                        response.sendRedirect("student_login.jsp");
                                //if notloggedin,takestudent to
loginpage
                }
%>

            <!--?Preloader Start -->
            <divid="preloader-active">
                <div class="preloader d-flex align-items-center justify-
content-center">
                    <divclass="preloader-innerposition-relative">
```

```
                    <divclass="preloader-circle"></div>
                    <divclass="preloader-imgpere-text">
                        <imgsrc="assets/img/logo/loder.png"alt="">
                    </div>
                </div>
            </div>
        </div>
        <!--Preloader Start -->
        <header>
            <!--Header Start-->
            <divclass="header-areaheader-transparent">
                <divclass="main-header">
                    <divclass="header-bottomheader-sticky">
                        <divclass="container-fluid">
                            <div class="rowalign-items-center">
                                <!--Logo -->
                                <divclass="col-xl-2col-lg-2">
                                    <divclass="logo">
                                        <a
href="index.jsp"><imgsrc="assets/img/logo/logo.pn
g"alt=""></a>
                                    </div>
                                </div>
                                <divclass="col-xl-10col-lg-10">
                                    <div class="menu-wrapper d-flex align-items-
centerjustify-content-end">
                                        <!--Main-menu-->
                                        <divclass="main-menud-noned-lg-block">
                                            <nav>
```

```
                                    <ulid="navigation">
                                        <li
class="active"><ahref="student_dashboard.jsp">Ho
me</a></li>
                                    <li><ahref="#">Classroom</a>
                                        <ulclass="submenu">
                                            <li><ahref="">Video
Lectures</a></li>
                                            <li><a href="">Study
Materials</a></li>
                                        </ul>
                                    </li>
                                    <li><ahref="">Q/AForum</a></li>
                                    <!--Button-->
                                    <liclass="button-header"><a
href="student_logout.jsp"class="btnbtn3">LogOut</a></li>
                                </ul>
                            </nav>
                        </div>
                    </div>
                </div>
                <!--MobileMenu-->
                <divclass="col-12">
                    <divclass="mobile_menud-blockd-lg-
none"></div>
                </div>
            </div>
        </div>
    </div>
```

```
            </div>
            <!--Header End-->
        </header>
        <main>
            <!--? sliderAreaStart-->
            <sectionclass="slider-area">
                <divclass="slider-active">
                    <!--Single Slider-->
                    <divclass="single-sliderslider-heightd-flexalign-items-
center">
                        <divclass="container">
                            <divclass="row">
                                <divclass="col-xl-6col-lg-7col-md-12">
                                    <divclass="hero__caption">
                                        <h1data-animation="fadeInLeft"data-
delay="0.2s">Welcome<br>
                                            <%
out.println(session.getAttribute("student"));%>
                                        </h1>
                                        <p data-animation="fadeInLeft" data-
delay="0.4s">Attend video lectures, skim through study materials
andaskdoubtsat one place.</p>
                                    </div>
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
            </section>
```

```
</main>
<footer>
  <divclass="footer-wrappperfooter-bg">
    <!--Footer Start-->
    <divclass="footer-areafooter-padding">
      <divclass="container">
        <divclass="rowjustify-content-between">
          <divclass="col-xl-4col-lg-5col-md-4col-sm-6">
            <divclass="single-footer-captionmb-50">
              <divclass="single-footer-captionmb-30">
                <!--logo -->
                <divclass="footer-logomb-25">
                  <a
href="index.jsp"><imgsrc="assets/img/logo/logo2_foo
ter.png"alt=""></a>
                </div>
                <divclass="footer-tittle">
                  <divclass="footer-pera">
                    <p>Theautomatedprocessstarts
here.</p>
                  </div>
                </div>
              </div>
            </div>
          </div>
          <!--footer-bottomarea-->
          <divclass="footer-bottom-area">
            <divclass="container">
              <divclass="footer-border">
```

```
                                    <divclass="rowd-flexalign-items-center">
                                      <divclass="col-xl-12">
                                        <divclass="footer-copy-righttext-
center">
                                          <p>
                                            Copyright&copy;
                                            <script>document.wri
                                              te(new
Date().getFullYear());
                                            </script>Allrightsreserved
                                          </p>
                                        </div>
                                      </div>
                                    </div>
                                  </div>
                                </div>
                                <!--Footer End-->
                              </div>
                        </footer>
                        <!--ScrollUp -->
                        <div id="back-top">
                          <a title="Go to Top" href="#"><i class="fas fa-level-up-
alt"></i></a>
                        </div>

                        <!--JS here -->
```

```
        <script src="./assets/js/vendor/modernizr-
3.5.0.min.js"></script>
        <!--Jquery,Popper,Bootstrap-->
        <scriptsrc="./assets/js/vendor/jquery-1.12.4.min.js"></script>
        <scriptsrc="./assets/js/popper.min.js"></script>
        <scriptsrc="./assets/js/bootstrap.min.js"></script>
        <!--JqueryMobile Menu-->
        <scriptsrc="./assets/js/jquery.slicknav.min.js"></script>

        <!--JquerySlick,Owl-CarouselPlugins-->
        <scriptsrc="./assets/js/owl.carousel.min.js"></script>
        <scriptsrc="./assets/js/slick.min.js"></script>
        <!--OnePage,Animated-HeadLin-->
        <scriptsrc="./assets/js/wow.min.js"></script>
        <scriptsrc="./assets/js/animated.headline.js"></script>
        <scriptsrc="./assets/js/jquery.magnific-popup.js"></script>

        <!--Date Picker-->
        <scriptsrc="./assets/js/gijgo.min.js"></script>
        <!--Nice-select,sticky-->
        <scriptsrc="./assets/js/jquery.nice-select.min.js"></script>
        <scriptsrc="./assets/js/jquery.sticky.js"></script>
        <!--Progress-->
        <scriptsrc="./assets/js/jquery.barfiller.js"></script>

        <!--counter ,waypoint,HoverDirection-->
        <scriptsrc="./assets/js/jquery.counterup.min.js"></script>
```

```
        <scriptsrc="./assets/js/waypoints.min.js"></script>
        <scriptsrc="./assets/js/jquery.countdown.min.js"></script>
        <scriptsrc="./assets/js/hover-direction-snake.min.js"></script>

        <!--contact js-->
        <scriptsrc="./assets/js/contact.js"></script>
        <scriptsrc="./assets/js/jquery.form.js"></script>
        <scriptsrc="./assets/js/jquery.validate.min.js"></script>
        <scriptsrc="./assets/js/mail-script.js"></script>
        <scriptsrc="./assets/js/jquery.ajaxchimp.min.js"></script>

        <!--JqueryPlugins,mainJquery-->
        <scriptsrc="./assets/js/plugins.js"></script>
        <scriptsrc="./assets/js/main.js"></script>

    </body>

    </html>
```

Results

Learningcommunityconsolidation,communication,andsharingknowledge:-Thequestionnaire data shows students viewed using classes as enhancing their learning the ideaofmembershipinalearningcommunity,aswellassupportingthedevelopmentofrelationshipsamonggroupmembers.

To develop relationships and encourage cooperation, and to help reduce their relationships asense of isolation. Answers to the interview provided insight into the reasons for this.Twelvestudents commented on the visual and verbal nature of the possible interaction classes havebeen instrumental in promoting a sense of commitment and commitment to others in theirgroup, and somehow made them feel obligated to help them. Comments show a harmoniousinteractionof'customized'relationshipsbuiltthroughnon-synchronizedforumsinMoodle,andthatadditionalvisualandaudiosizeshelpcombinetheseonapersonallevel.Somereaderscommentedthatagreatfoundationforrelationshipswascreatedbeforeclasssessions, and that they work hard to integrate or transform existing relationships at a differentlevel.

Eight students commented on their group's differences in this, in that they get to establish aworking relationship is an easy process from at first — something they had never experiencedin other online learning situations. These students often see classes as a bonus rather than animportantcreativetoolrelationships,inonecomment,“afterhavingalltheotheronlineexperiences

CONCLUSION

While acknowledging the limited limitations of this study, it demonstrates an important virtualrole classes in promoting student interaction and integrating a sense of identity as members ofthe learning community. It highlights the need for teachers to set curriculum time in orderdevelopstudents'knowledgeofhowbesttousethemultimediatoolsavailableintheclassroom,aswellasdesign,preparation,anddcarefulplanningofclassroomactivitiestopromotedepth,morethoughtfulreading,ifthatisthegoal.Guidelinesalsoneedtobeestablished on how and when communication tools should be used, so that their use does notdisturbotherusers.Finally,Researchsuggeststhatteachersshouldbeawareofthetechnologicalbarriersinwhichstudentswork,andwhiletheyintendtousetheclassroomto

its full potential, they must ensure that there are no such students who were deprived ofopportunities due to technical quality or access problems. More research is needed to moreaccuratelyfind therightcombinationsfortheuseof a

consistent and asynchronous system within ODL courses, so that certain individual skills canbenefitstudentsexternallydisrupts theirflexibilityandchoice.

Reference

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