CUSTOMIZE MOODLE CERTIFICATE

MINOR PROJECT REPORT

SUBMITTED IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR

THE AWARD OF THE DEGREE OF

BACHELOR OF TECHNOLOGY

Information Technology

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Abstract

Customize Moodle Certificate" provides us a simple interface for maintenance of student information. It can be used by educational institutes or colleges to maintain the records of students easily. Achieving this objective is difficult using a manual system as the information is scattered, can be redundant and collecting relevant information may be very time consuming. All these problems are solved using this project.

Throughout the project the focus has been on presenting information in an easy and intelligible manner. The project is very useful for professors who want to know about Student Information. The project provides facilities like profile creation of students thus reducing paperwork and automating the record generation process in an educational institution.

ACKNOWLEDGEMENT

WE are highly grateful to the Dr. Sehijpal Singh, Principal, Guru Nanak Dev Engineering College (GNDEC), Ludhiana, for providing this opportunity to carry out the minor project work at Customize Moodle Certificate.

The constant guidance and encouragement received from Dr. Kulvinder Singh Mann, H.O.D., IT Department, GNDEC Ludhiana has been of great help in carrying out the project work and is acknowledged with reverential thanks.

WE would like to express a deep sense of gratitude and thanks profusely to Prof. Ranjodh Kaur, without her wise counsel and able guidance, it would have been impossible to complete the project in this manner.

WE express gratitude to other faculty members of Information Technology Department of GNDEC for their intellectual support throughout the course of this work.

Finally, WE are indebted to all whosoever have contributed in this report work.

Simrath Kaur

Vanshica Goyal

Hardeep Kaur

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1 Introduction

1.1 Introduction to Project Page

The aim of this project is to study how we fetch the name, roll no, field and grades in Moodle . Moodle is an open source virtual learning environment that is also known as a course management system. This popularity and its use of open-source code have made it a starting point for in-house developments such as extensions or mobility modules , automatic correction of SQL exercises , and virtual mentoring .

In this project, we have to fetch the information of student in Moodle by using HTML, CSS, and php and other languages also. There are three main criteria that have led universities to use Moodle in their virtual campuses. First of all, its teaching flexibility, as it provides added value to the different teaching styles and may be adapted to the varied pedagogical approaches of different teachers. Secondly, it is a user-friendly application both for teachers and for students, which also makes allowance for the elimination of barriers to access. Finally, Moodle allows the integration of different tools, including management tools, which gives it technological flexibility.

1.2 Project Category

- Internet based
- Application or System Development
- System Administration

1.3 Objectives

1. To create a certificate from the Moodle activities I.e. Quiz, Feedback or questionnaires
2. Customizing the fields from the activities on the certificate.

1.4 Identification/Reorganization of Need

Integration of this kind of tools into a Learning Management System is an essential feature in order to improve students' performance.

• To provide a very simple development environment in order to smooth the learning curve to the students.

• To be independent of the programming language. To use a particular programming language it is only required that the appropriate compiler is installed which is not required in virtual programming lab environment by Moodle.

1.5 Unique Features of the System

1. Reading Materials: Reading materials could contain various lectures, reports, e-books and various other materials for the course. It also can be very useful in categorising the course materials in various categories. Courses can be grouped in a general way. After the course has been uploaded by the teacher it can again be changed removed or new content can be added to these courses or new courses can also be added accordingly. Also, the courses can be categorised under specific teachers so that specific teachers can make changes to specific courses only.

2. Conduction of Quizzes: Evaluation of the students through test and quizzes can also be included in the site through moodle and they come under the various activities provided by moodle. Various types of test including essay questions, short answer questions, and multiple choice questions can be introduced in the site. For each type of test or quizzes the teacher has to use the various types of format given on the site for conducting these tests and quizzes.viz. For essay questions the teacher can select that essay type questions from the field provided for creating the different types of questions. For Multiple choice questions, the multiple choice option can be selected and then the specific type of questions can be set accordingly.

3. Distribution, collection and evaluation of assignments: Under different activities one of the activities that can be organised by the teachers is distribution of assignments to the students. This can be done by selecting activities and the choosing assignments. Then, the teacher can create and inform the students about the assignment through the e-mail. After that the students can access the assignment through the site and then submit their assignment for the course. A student can submit his/her assignment as a file by uploading the file to the assignment submission. These assignments can then be collected by the site to the database and these can then be assessed by the teacher through the site. The teacher can also provide grades for the assignment for each student which is stored in the database along with the assignment submitted by each students.

4. Keeping track of Class Attendance: As moodle provides an online active participation of the course by the teacher, a class attendance can be kept for the students who have participate in the course. Since, each student have to log-in to the site and the through it attend the class, it can be easily used to keep track of the attendance of each student specifically.

5. Recording of Grades: Similar to keeping track of attendance of the students, the teacher can accumulate and keep track of the grades provided by him to each student through tests, quizzes and assignments by using the database of the site. As the graded and attendance of each student is stored by the site.

2 Requirement Analysis and System Specification

2.1 Feasibility Study

The main objective of the feasibility study is to test the Technical, Operational and Economical feasibility for adding new device and debugging old running device/system. All system is feasible if they are unlimited resources and in nite time. There are aspects in the feasibility study portion of the preliminary investigation:

2.1.1 Technical Feasibility:-

The technical issue usually raised during the feasibility stage of the investigation includes the following:

- Does the necessary technology exist to do what is suggested?
- Do the proposed equipment have the technical capacity to work properly?
- Are there technical guarantees of accuracy, reliability, case of access and control?

2.1.2 Operational Feasibility:-

Operational feasibility aspects of the project are to be taken as an important part of the project implementation. Some of the important issues raised are to test the operational feasibility of a project includes the following:

- Is there controlled efficiently?
- Will the system be used and work properly if it is being developed and implemented?
- Will there be any resistance from the user that will undetermined the possible application benefits.

2.1.3 Economical Feasibility:-

In the economic feasibility, the development cost in creating the system is evaluated against the ultimate benefit derived from the new systems. Financial benefits must equal or exceed the costs.

2.2 Facilities required for proposed work

Minimum software required:-

- Win 10 or Ubuntu 18.04
- Xampp
- Moodle
- Certificate Plugin

Minimum hardware required:-

- Processor: Intel® CoreTM i5-7200U CPU @ 2.50GHz × 4
- Hard-disk: 2GB
- RAM: 512 MB

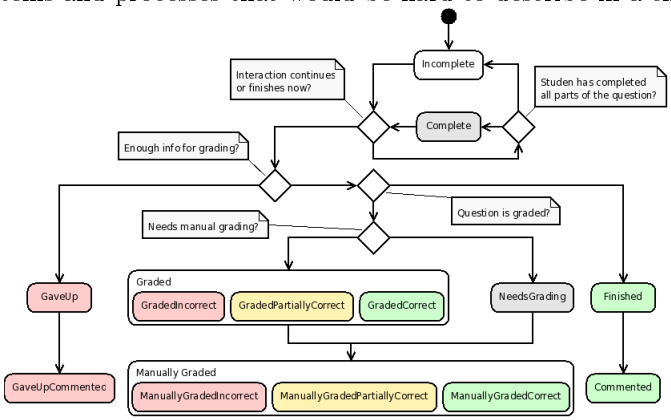
3 System Design

3.1 Software design:-

Design or system design is the fourth phase of the System Development Lifecycle which is basically a transformation of a system analysis. It is creative and challenging phase of SDLC. It is designed according to the logical design that how should it is automated, how should we use this, how should we design local area networking and how much technologies might be used in the system.

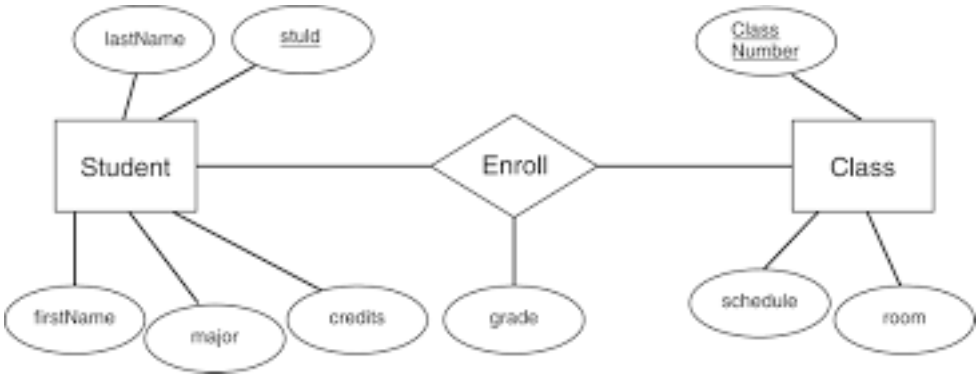
3.2 Database Flow Diagram

A data flow diagram shows the way information flows through a process or system. It includes data inputs and outputs, data stores, and the various subprocesses the data moves through. DFDs are built using standardized symbols and notation to describe various entities and their relationships. Data flow diagrams visually represent systems and processes that would be hard to describe in a chunk of text.



3.3 ER Diagram:-

In software engineering, an ER diagram is often an initial step in determining requirements for an information systems project. It's also later used to model a particular database or databases. ... Business information systems: The diagrams are used to design or analyze relational databases used in business processes. In software engineering, an ER diagram is often an initial step in determining requirements for an information systems project. It's also later used to model a particular database or databases.



3.4 Methodology

Moodle is an open source virtual learning environment that is also known as a course management system. As an open-web application that educators can use to create Web learning portals. In this the back-end code comprises HTML5, CSS, and php. All three types of code are contained in one .html file and can be run solely from this file. One of the advantages of HTML 5 is that it is not necessary to include different types of web languages in a single file

1) To increase the portability of the project by only needing to worry about one project file instead of three

(2) Where in the project file, the change in coding languages is distinctly marked and therefore does not significantly reduce readability. Also, the ability to put more than one web language in a single file is an example of an RIA (Rich Internet Application).

4 Implementaion

4.1 Setting up moodle

One can set up moodle by following steps:

1. Plan System Capacity.
2. Install Database Server.
3. Install Web Server.
4. Install PHP.
5. Download Moodle Copy Files into Place.
6. Create Moodle Data Directory
7. Secure Database
8. Begin Moodle Install
9. Setup Backups.

4.2 Creating certificate

1. Dasboard at intial:

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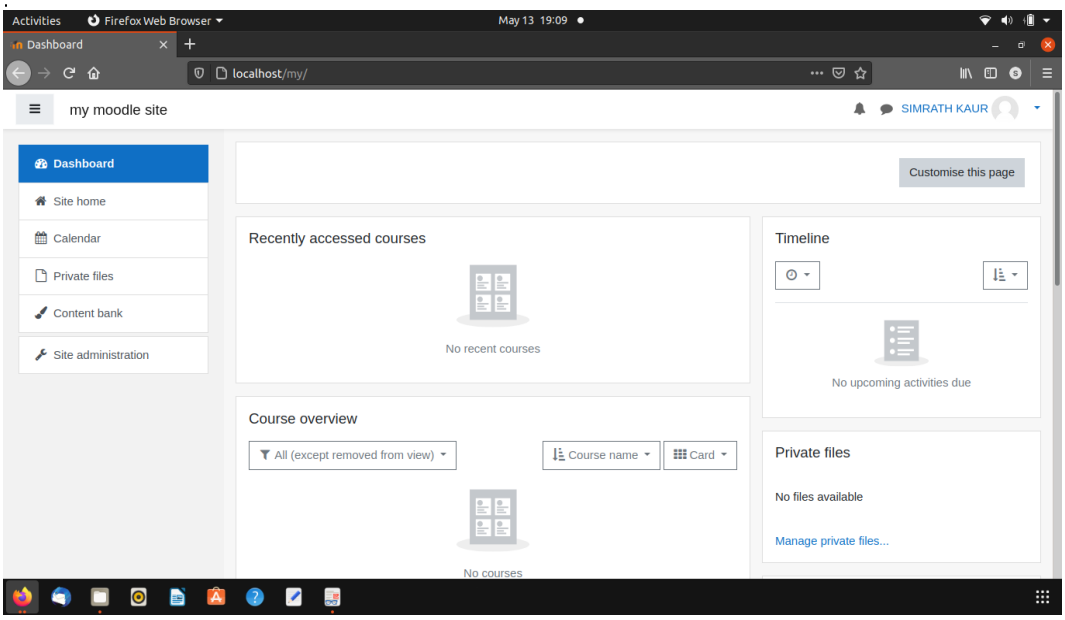

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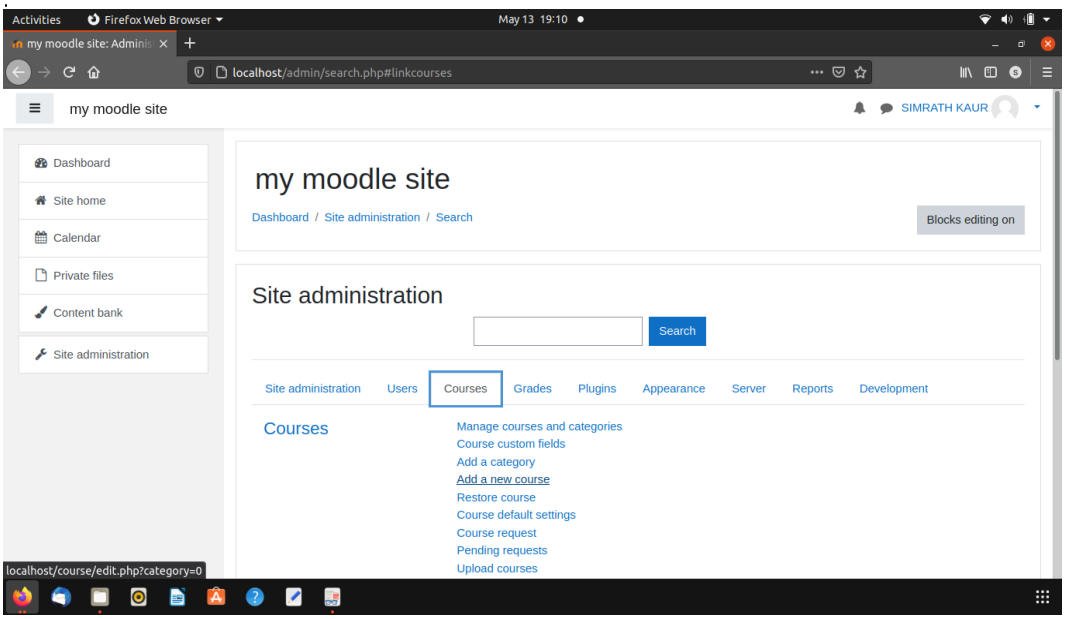
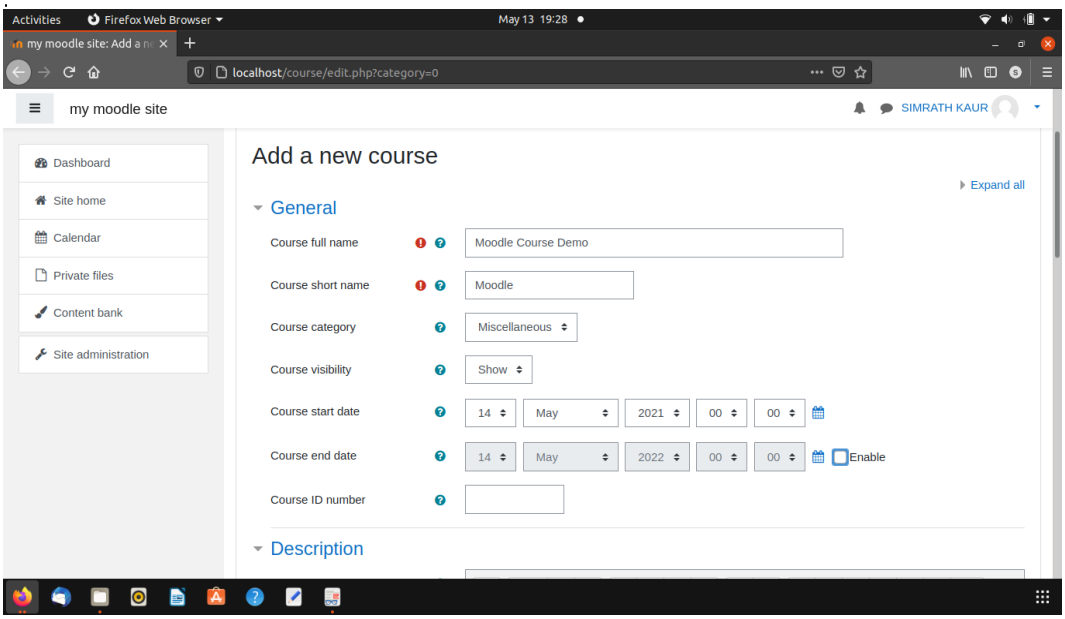
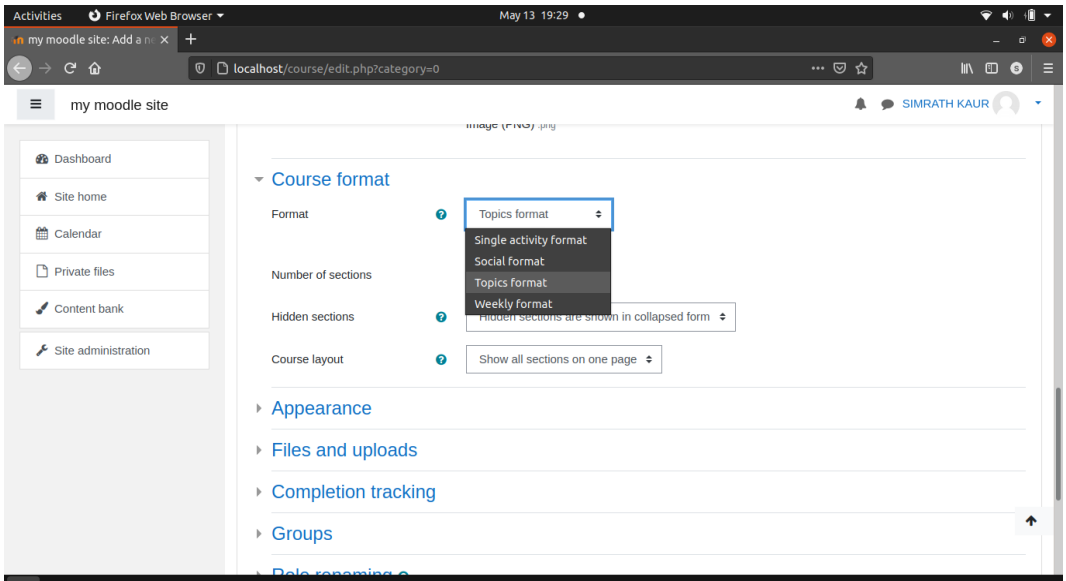
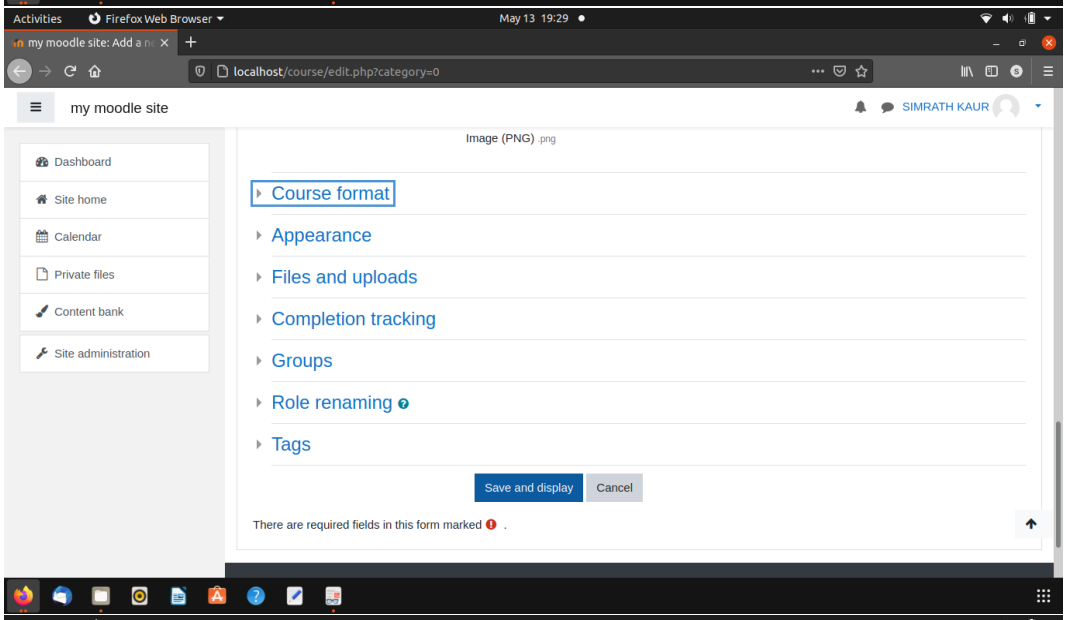
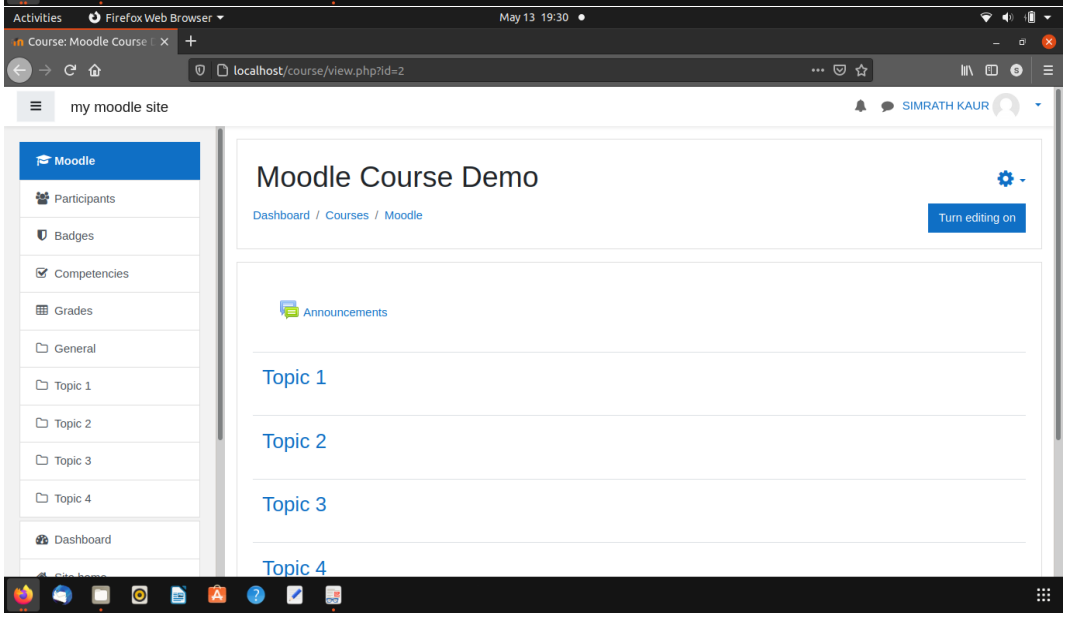
2. Creating course:



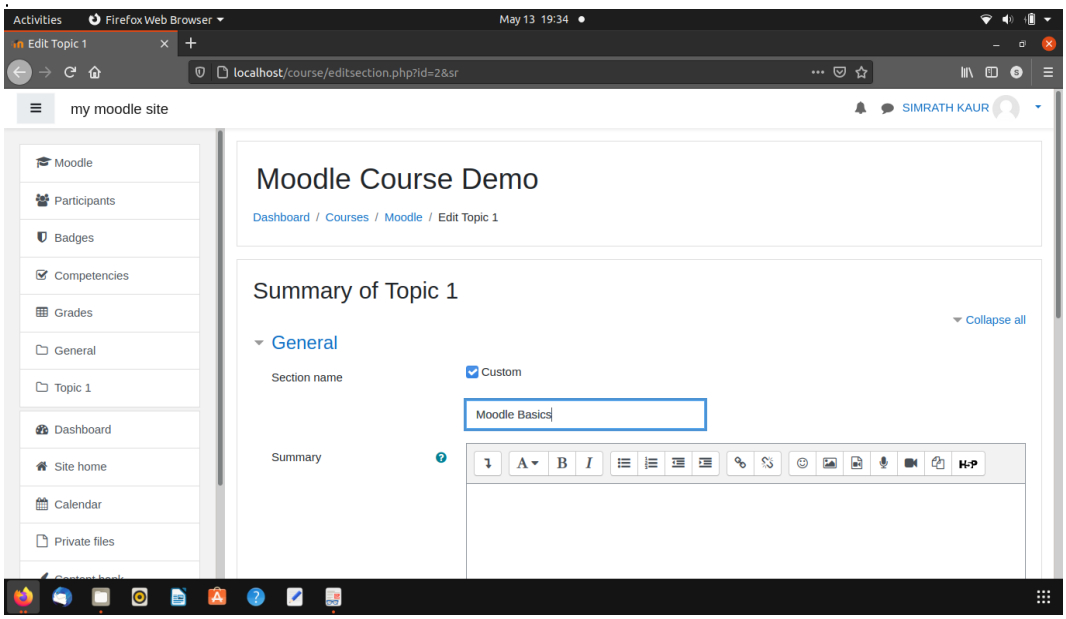


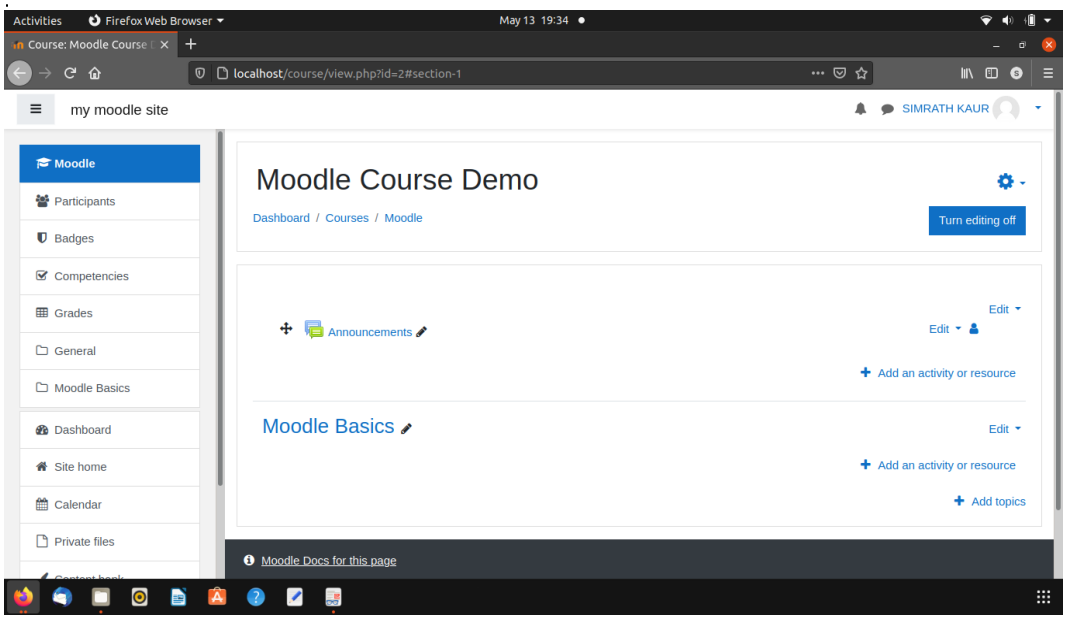

Activities
Firefox Web Browser
May 13 19:29
my moodle site: Add a n
localhost/course/edit.php?category=0
my moodle site
SIMRATH KAUR
Dashboard
Site home
Calendar
Private files
Content bank
Site administration
Course format
Format
Topics format
Single activity format
Social format
Topics format
Weekly format
Number of sections
Hidden sections
Course layout
Show all sections on one page
Appearance
Files and uploads
Completion tracking
Groups


Activities
Firefox Web Browser
May 13 19:29
my moodle site: Add a n
localhost/course/edit.php?category=0
my moodle site
SIMRATH KAUR
Image (PNG) .png
Dashboard
Site home
Calendar
Private files
Content bank
Site administration
Course format
Appearance
Files and uploads
Completion tracking
Groups
Role renaming
Tags
Save and display
Cancel
There are required fields in this form marked .

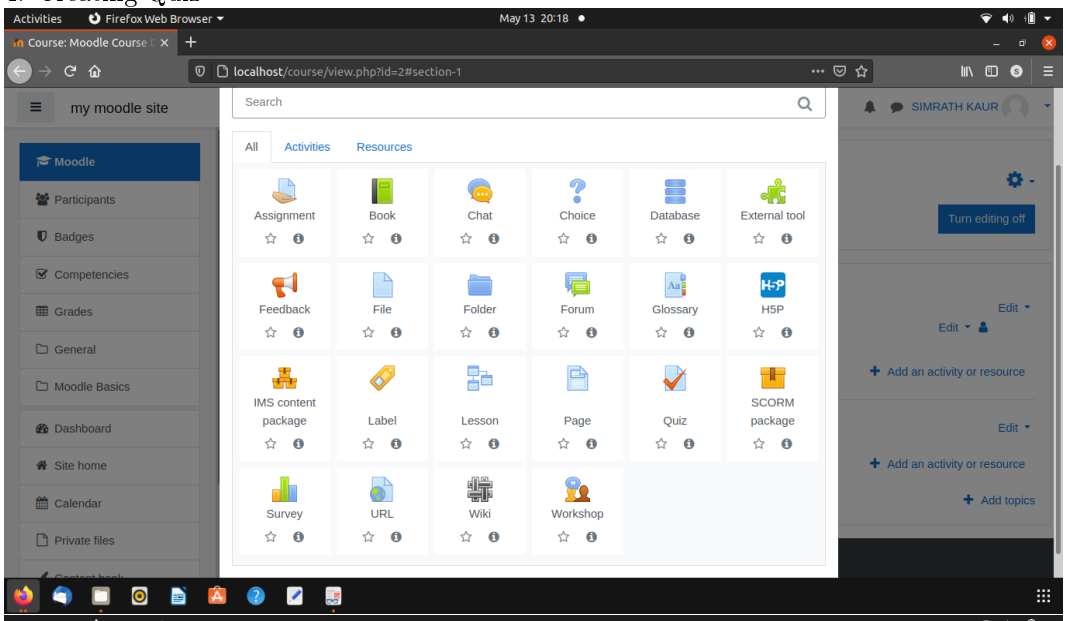

Activities
Firefox Web Browser
May 13 19:30
Course: Moodle Course
localhost/course/view.php?id=2
my moodle site
SIMRATH KAUR
Moodle
Participants
Badges
Competencies
Grades
General
Topic 1
Topic 2
Topic 3
Topic 4
Dashboard
Moodle Course Demo
Dashboard / Courses / Moodle
Turn editing on
Announcements
Topic 1
Topic 2
Topic 3
Topic 4

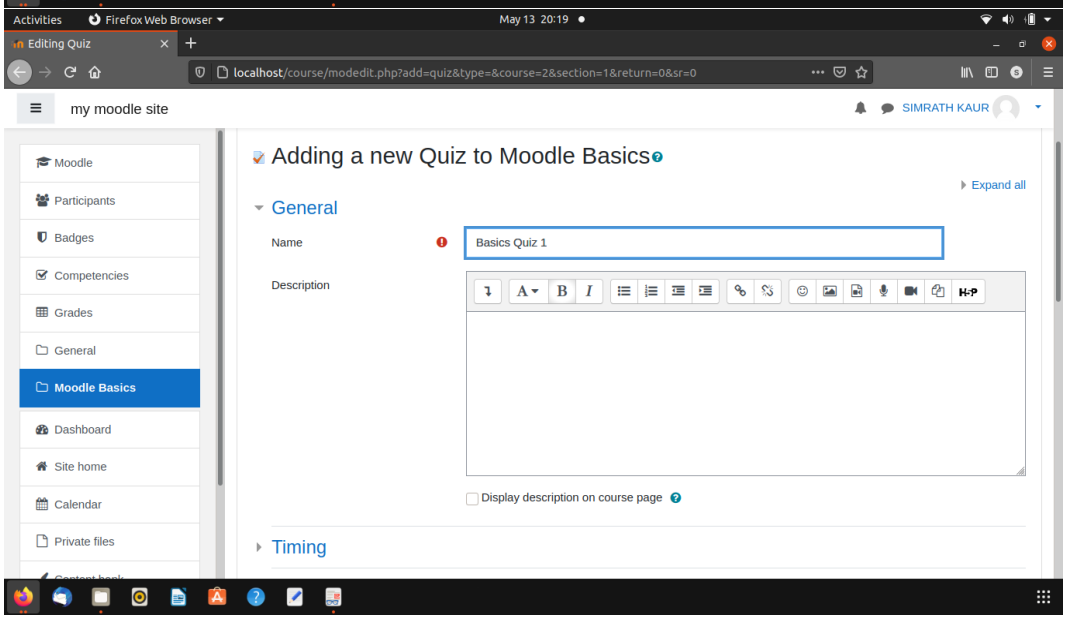
3. Creating Topic

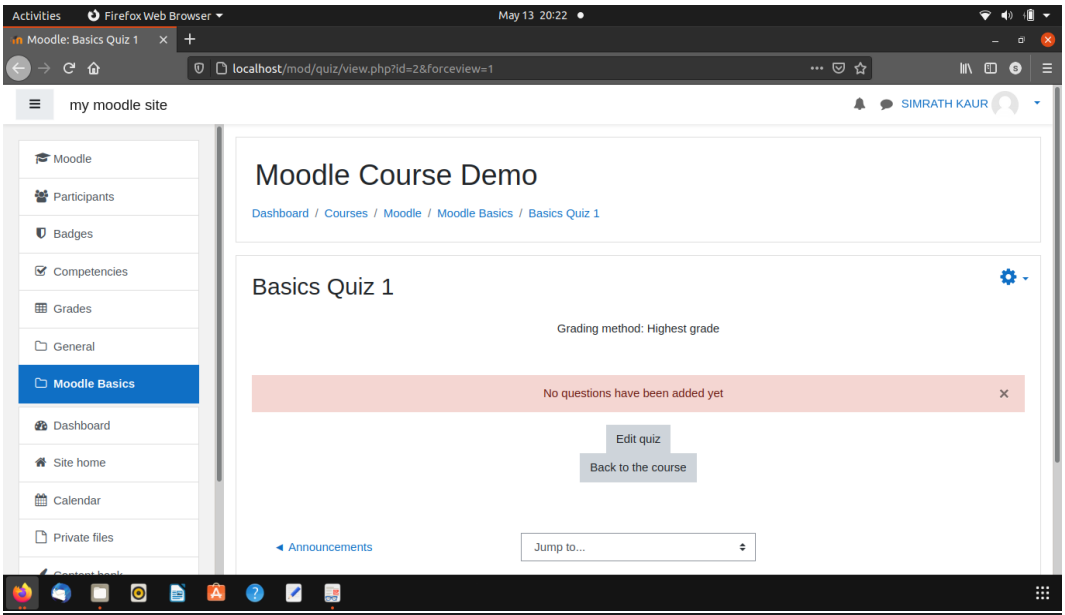


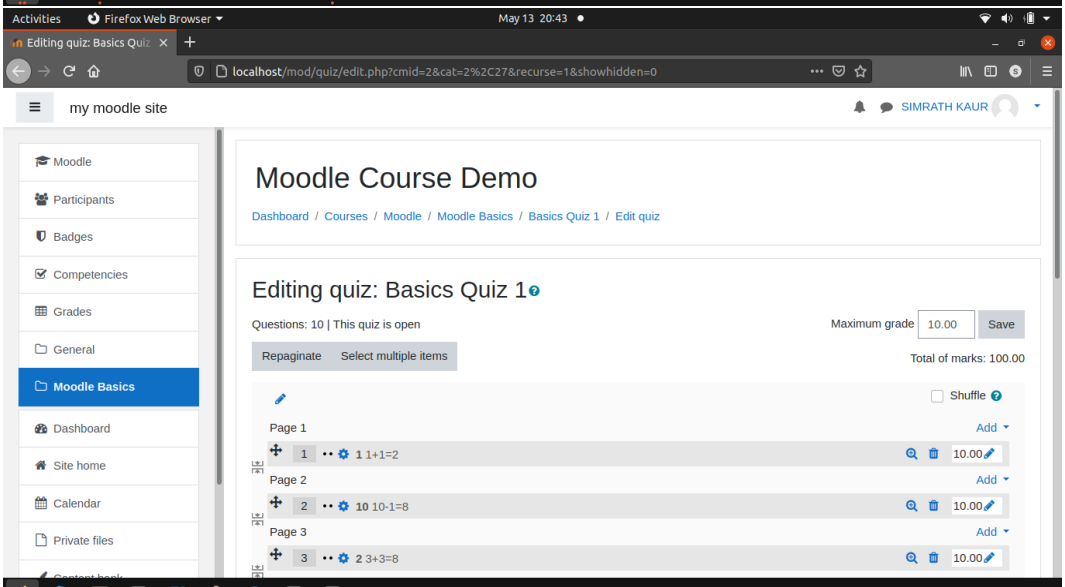


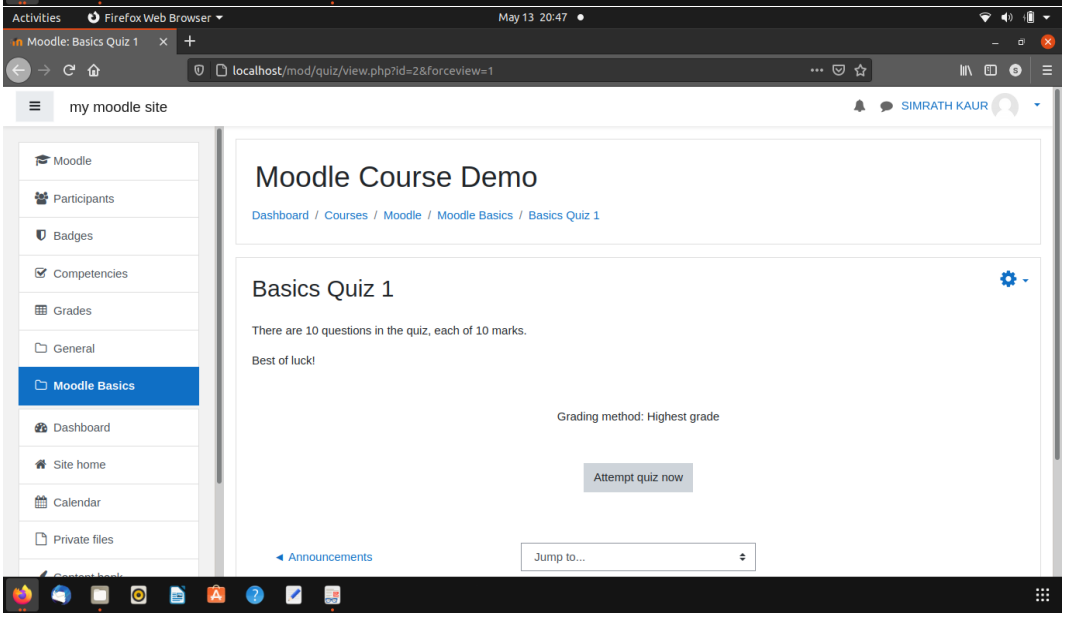
4. Creating Quiz






Activities
Firefox Web Browser
May 13 20:22
Moodle: Basics Quiz 1
localhost/mod/quiz/view.php?id=2&forceview=1
my moodle site
SIMRATH KAUR
Moodle
Participants
Badges
Competencies
Grades
General
Moodle Basics
Dashboard
Site home
Calendar
Private files
Moodle Course Demo
Dashboard / Courses / Moodle / Moodle Basics / Basics Quiz 1
Basics Quiz 1
Grading method: Highest grade
No questions have been added yet
Edit quiz
Back to the course
Announcements
Jump to...


Activities
Firefox Web Browser
May 13 20:43
Editing quiz: Basics Quiz
localhost/mod/quiz/edit.php?cmid=2&cat=2%2C27&recurse=1&showhidden=0
my moodle site
SIMRATH KAUR
Moodle
Participants
Badges
Competencies
Grades
General
Moodle Basics
Dashboard
Site home
Calendar
Private files
Moodle Course Demo
Dashboard / Courses / Moodle / Moodle Basics / Basics Quiz 1 / Edit quiz
Editing quiz: Basics Quiz 1
Questions: 10 | This quiz is open
Maximum grade 10.00 Save
Repaginate Select multiple items
Total of marks: 100.00
Shuffle
Page 1 Add
1 1 1+1=2 10.00
Page 2 Add
2 10 10-1=8 10.00
Page 3 Add
3 2 3+3=8 10.00


Activities
Firefox Web Browser
May 13 20:47
Moodle: Basics Quiz 1
localhost/mod/quiz/view.php?id=2&forceview=1
my moodle site
SIMRATH KAUR
Moodle
Participants
Badges
Competencies
Grades
General
Moodle Basics
Dashboard
Site home
Calendar
Private files
Moodle Course Demo
Dashboard / Courses / Moodle / Moodle Basics / Basics Quiz 1
Basics Quiz 1
There are 10 questions in the quiz, each of 10 marks.
Best of luck!
Grading method: Highest grade
Attempt quiz now
Announcements
Jump to...

5. Installing plugin

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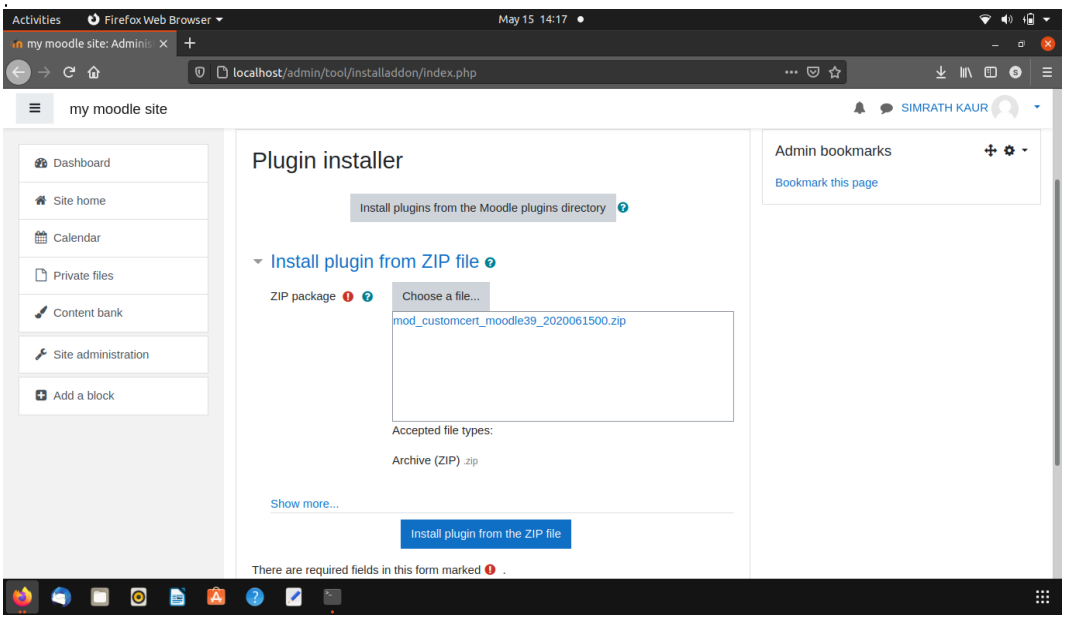

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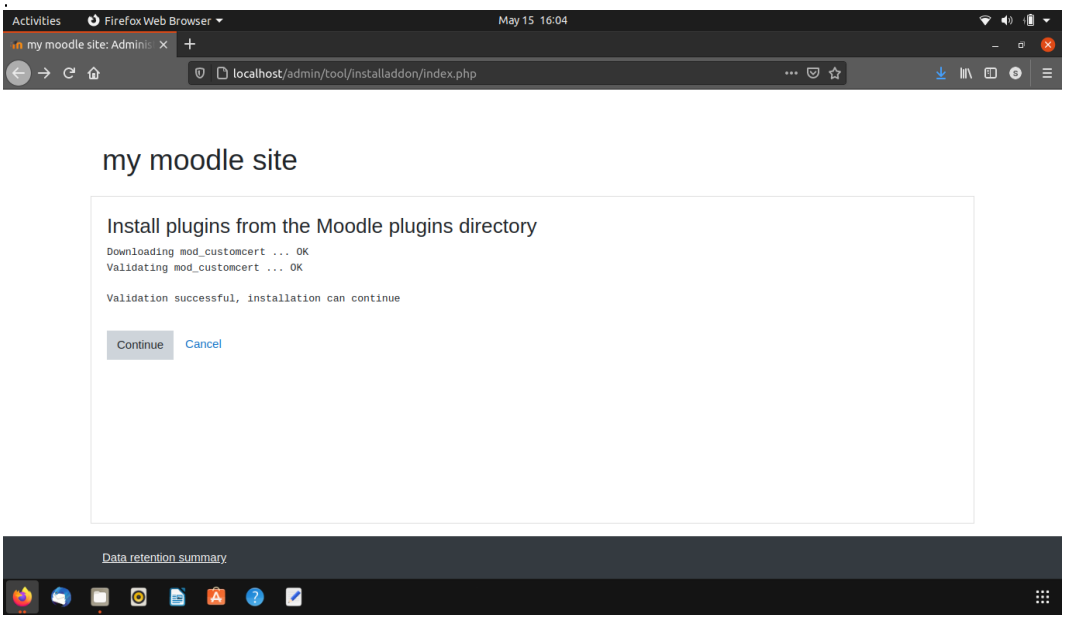

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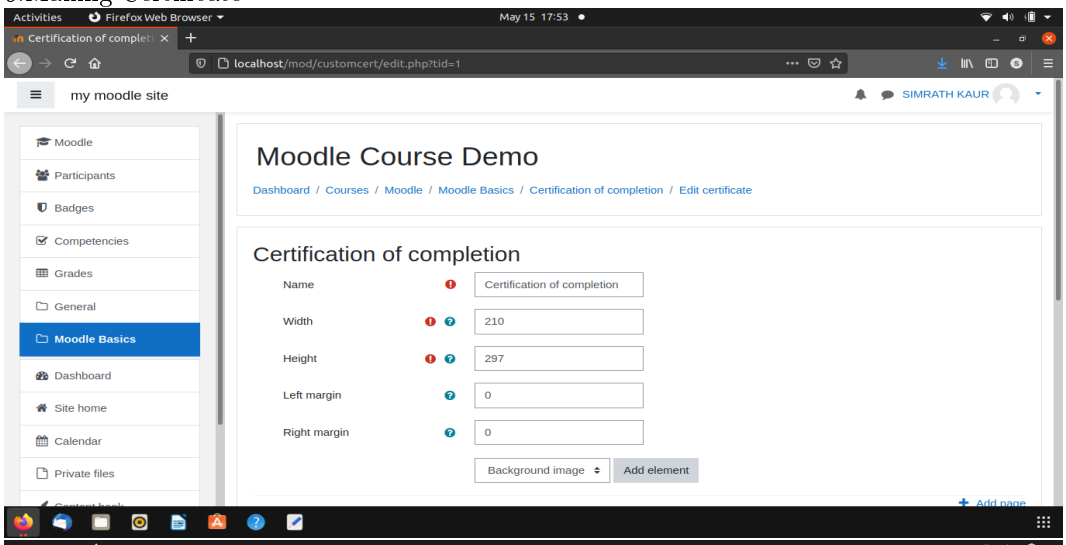
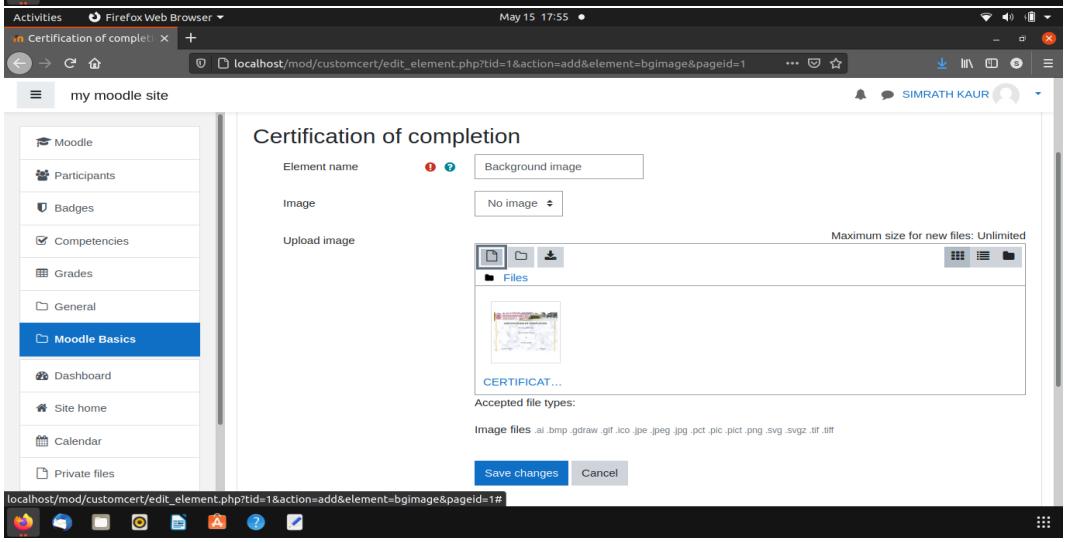
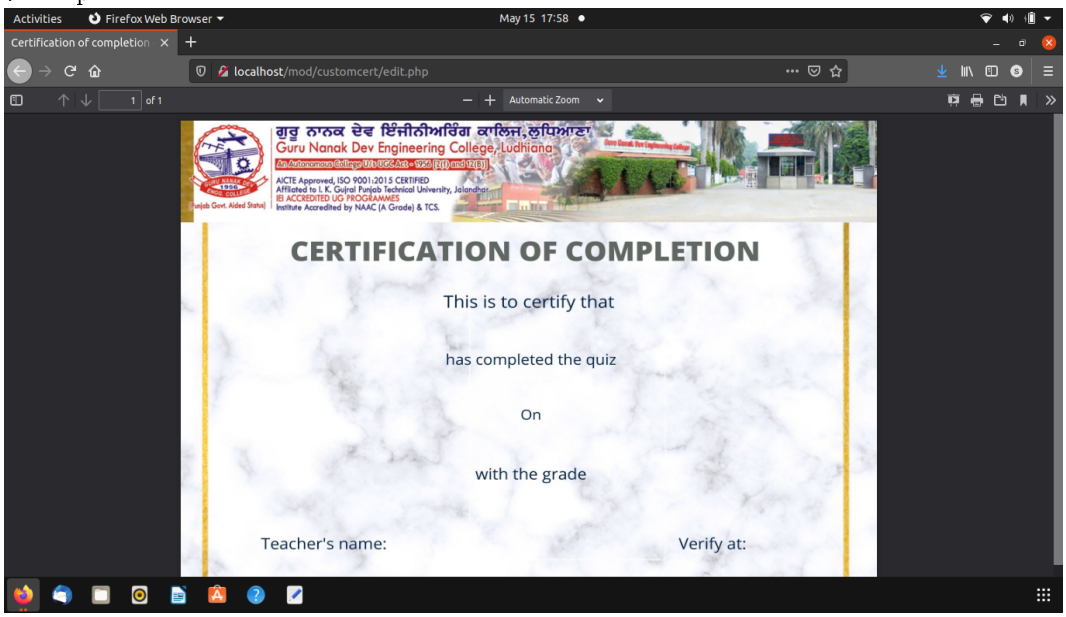
6.Making Certificate





7.Template of certification



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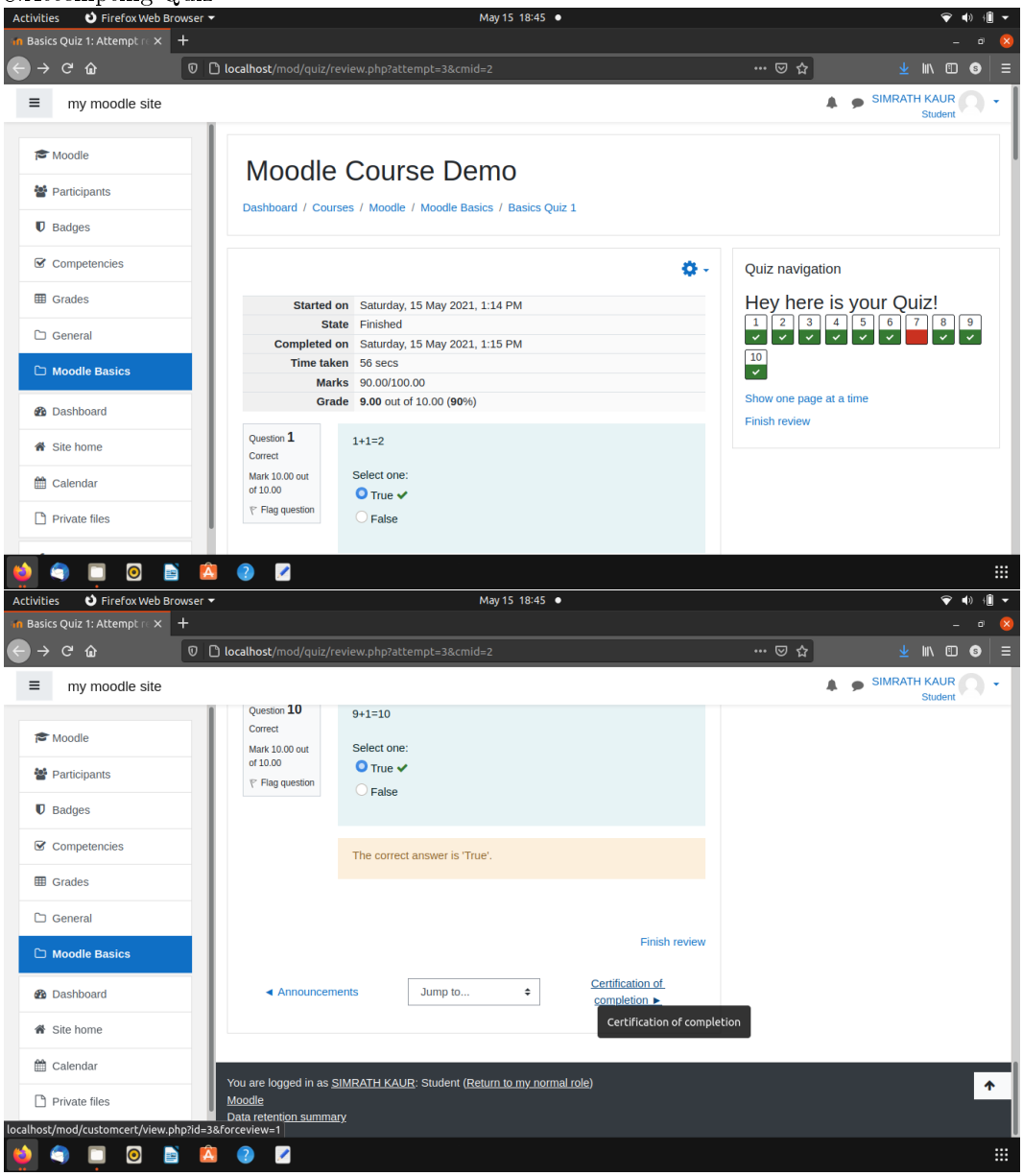
8.Attempting Quiz



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9.Without Customization:

10. With Customization:

5 Conclusion

Theoretical knowledge without proper practical knowledge is waste. Making a project doesn't just help in clearing the concepts but also eradicate the problem in implementations. This project helped us to learn about designing and procedure of "Moodle Certificate". ThisWith the help of various links and tools, we have been able to analyse. We have been successful in our attempt to take care of the needs of the administrator. At last we must say that the project can be implemented by anybody using this report as record.

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