

Aptech
LEARNING
Unleash your potential

CONTEST-AZM
تونشان عزم عاليشان

WEB APPLICATION DEVELOPMENT

WEBSITE DESIGN AND DEVELOPMENT

MOBILE APPLICATION DEVELOPMENT

WINNING PRIZE UPTO PKR 150,000

Registration Fee PKR 1,000

Last Date of Registration Friday, 10th July, 2020

Competition Starting from Monday, 13th July 2020

METRO STAR GATE CENTER 0333-9560188

FRANCHISE OF
APTECH GLOBAL LEARNING SOLUTIONS MALAYSIA

Learning Management System (LMS)

A learning management system (LMS) is a software application for the administration, documentation, tracking, reporting, automation and delivery of educational courses, training programs, or learning and development programs. The learning management system concept emerged directly from e-Learning. Learning Management Systems make up the largest segment of the learning system market.

LMS software solutions open the virtual door to a superior quality of education. With eLearning, teachers can provide one-on-one instruction and mentoring to many students across geographical locations. Artificially limiting class size, prescribing teacher-student ratios or restricting a teacher's ability to serve students at multiple schools ignores the freedom and flexibility that comes with eLearning. Requiring students to take a high quality college prep online course ensures students are better prepared to succeed in life after graduation in the digital age. A robust offering of digital content and online courses expands options and ensures students acquire knowledge and gain skills from the experience of digital learning.

LMS is all powerful, all-in-one platform and is the world's fastest-growing e-Learning solution, bringing together learning management as an ingenious dais to meet any organization's internal and external training requirements. It ensures exceptional balance of visual, audio and practical methodologies so that the users are engaged and provided with the optimum learning experience. Just like the real time classroom learning and our features ensure that students of LMS e-Learning mode can serve to be taught and trained in an unswerving manner on this virtual education platform to make learning more appealing and available for efficient teaching and quick learning of any subject.

LMS is the most advanced version of our Learning Management System and ultimate new-gen product compatible with Cloud, Android & iOS Tabs, Mobiles, Thin Clients/N-computing etc. with unique features like Parent Interface to monitor the Student Performance, Principal/Manager Interface to monitor Teacher Activity, Instant Scoring, e-Exam Module for Easy Evaluation and Comprehensive Reports. LMS can work either as an Offline Version or Online Version.

Product Overview

LMS is changing the whole replica of learning during these present times. It is carefully designed to meet the emerging needs the educational industry and you can easily manage the learning maneuver online. e-Learning has been elevated from the conventional classrooms, onto the desktop and now into the mobiles. LMS enables the management and delivery of learning content and resources to students and allows for “anytime, anywhere” access as well along with create and view reports, collect online payments, and deliver learning modules across mobile devices.. Self-paced programs mean high achieving students won’t get bored and can accelerate academically, while struggling students can get additional time and tutoring to gain competency and the confidence that comes with it. LMS offers the potential for students to study at their own pace it is student-centered. Tests can be administered and scored quickly and efficiently. Computerized scoring provides the opportunity for a cost effective method to create better tests beyond multiple choice, including simulations and constructed responses.

- Unique Features
- Supports lessons in text/audio/video files in any format
- User-friendly & Interactive
- One-on-one instruction and mentoring
- Flexibility of deployment across operating systems (OS)
- Generate instant evaluation reports
- Ease of accesses even beyond classroom setting
- Online and offline versions with perpetual license and usage options
- Self-paced flexibility
- Management and parent log-in options
- 24/7 Customer Support
- Value based pricing with free upgrades and releases
- Easy customization of lessons and levels by Instructor/Admin
- Practicing and Self-evaluation
- Online Exam
- Teacher-led & Self-study modes
- Home work
- Consolidated Reports
- Live Virtual Class / Video Conferencing
- White Board
- Student Observer
- Instant Message to Students and Parents
- Cloud/Offline & Tab/Mobile Learning options.

World-class e-Learning Software

eScholar-eLearning-Software LMS or eLearning software solutions open the virtual door to a superior quality of education. With eLearning, teachers can provide one-on-one instruction and mentoring to many students across geographical locations. Artificially limiting class size, prescribing teacher-student ratios or restricting a teacher's ability to serve students at multiple schools ignores the LMS and flexibility that comes with eLearning. Requiring students to take a high quality college prep online course ensures students are better prepared to succeed in life after graduation in the digital age. A robust offering of digital content and online courses expands options and ensures students acquire knowledge and gain skills from the experience of digital learning.

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Course planner

Course planner facilitates authoring and managing multimedia contents and training courses. It's a lucrative platform to share lessons in different formats like audio, video, pdf, word, excel etc. This feature will help you stride through the process of creating unlimited course content and thus ease managing of the instructor, subject, class etc.

- Unlimited multimedia course creation
- Add/Manage Instructor/Learner/Subject/Class
- Courses in various formats - audio/video/pdf.etc
- Course creation & Authoring

- Content Management and Delivery at ease

Lesson Composer

- Create own video/audio Lessons
- Best-in-class content management system
- Easy text/video Editor
- Easy integration of third Party Materials
- Modify pre-loaded lessons with ease

Live Virtual Class & Powerful Video Conferencing

Milestones / Achievements

LMS LIVE Virtual Classroom enables the students to access their teachers from anywhere across the globe. This aims at breaking down most of the common barriers to synchronous learning, like cost, distance, timing etc. This video conferencing tool supports live virtual class, recording of video sessions, attaching of files, white board activities, chat etc

- One Teacher to many Students
- Live Class with Video recording
- Attach Files
- White board
- Chat options

Online Exam

This indispensable module aids the teacher to organize examinations, assign and allocate the questions using the e-Exam module. The teachers can carry out the examinations successfully using the questions from the Question Bank. Students can attend the pre-assigned exam and retrieve the result through the teacher console.

Question Bank

- Add question according to Subject, Topic and Types
- Multiple choice
- True / False
- Fill blanks
- Descriptive type question

Allocate Marks

- Marks for each question & exercise can be set and instant scoring can be activated.

Assign preset lesson patterns

- Any lesson pattern like, one word, fill in the blank, matching phrase can be designed.

Reports

Teacher can generate the following reports:

- Question Bank
- Student progress card-Group & Individual
- Exam results
- Exam Schedule Report
- Exam wise Performance Report

E-Library

LMS is integrated with an e-Library where unlimited e-Books in different categories can be uploaded. This multi-purpose platform is lucid, exceptionally visual and easy to navigate and serves as a full-fledged Digital Library with reference books in different languages. With Convenient access to a load of great content, it provides a powerful combination of simple study tools with the unrivalled strength to help the students to widen their knowledge and improve their reading skills and habits based on their levels of interests and topics of choice. Library-Genie

This software platform incorporates Digital Contents & its Management System that helps create, categorize, index, search, retrieve and share various forms of digital contents in audio/video/text formats. Also used for preserving digital assets like Books, Journals, Magazines, Articles etc of an institution in multimedia and also from free resources.

- Category wise search
- Multiple access
- Share various formats
- Add from free resources
- Unlimited storage

Mobile App

Mobile-App-for-Schools-and-Colleges LMS also introduces LMS the advanced and powerful e-learning solution, a learning management system compatible on Mobile Application. The educational system around the global dome has gone through a sea change over the very last decade. This revolutionary transformation is the LMS mobile app which assists the learners in their learning process in a personalized manner.

Mobile App for Students

- Access to data anytime and anywhere
- Attend class work, homework, activities, projects etc.
- Receive notifications in the mailbox
- Self-Study Option
- Get individual exam based marks and instant scores

Mobile App for Teachers

- Assign lessons to individuals or group-wise
- Monitor and Control Student all Activities
- Interact with selected student or the entire class.
- Track student attendance and performance
- Conduct online exam for students.

Mobile App for Admin

- Add Teachers
- Add subjects
- Approve student registrations
- Track student attendance and performance
- Organize online exam for students
- Generate User Certificates

Mobile app for Parents

- Know about the daily activities of the child.
- View their ward's assessment report.
- View assignments, circulars, etc.
- Monitor their child's performance.
- Monitor Child's attendance and get teacher notifications.

Mobile App for Principal/Management

- Access reports student wise and teacher wise
- Manage Teacher Attendance
- View staff Activity including lesson plan.
- View individual and group based exam marks

Student Interface

The flexibility a student can have while learning has made e-learning platform a promising way of comprehending the study materials. It has increased its appeal among learners who have a thirst for knowledge. In this ever-changing era, learning online is the way to stay on top. This module allows learning, submission of assignments and receiving scores instantly.

- Things-to-Do: View assigned lessons and practice
- Attend daily activities
- Send feedback to teacher
- Rehearse and practice lesson
- Do lesson related exercise for instant score
- Attend Exercises after the lesson learning.
- Instant scores in seconds
- Self-Study of any subject
- Assignment: Students assignments are viewed downloaded & Uploaded under this feature.
- Homework: Teacher uploaded homework can be downloaded & used and later uploaded by the students.
- Online Exam : Attend time base exam assigned by teacher
- Notification: View all notification by teacher
- Poll/Survey: Send teacher with our views and decisions on the poll created by teacher
- Reports: See all our personal report of exam/activity/attendance
- My Profile: View and update profile

Teacher Interface

This module primarily offers the privileges of assigning work to the class/students and monitors assignment progress while keeping a track of student attendances and performance. Other tasks includes

- Observe: Monitor student's activity.
- Connect: Instant communication with student.
- Announce: Speak to the whole connected students or as in groups
- Spider: Send Interesting videos from online
- Explore: Play back audio/video available in USB to selected students or a group
- Live Class /Video Conferencing: Teach students online
- e-Board: Scribble out text / formulas /image etc to the learner
- Screen Share: Share the screen for demonstration to selected students or group
- Course Builder: Lesson Planner, Module designer &Category creator
- Lesson Composer: Teacher can create different lessons and difficulty levels for each type. With Audio / video Lesson creation and attach text / pdf file along
- Assignments: Monitor students submitted activity and Send Feedback to students
- Create Exercise: Exercises with different pattern and type can be created and set for students. (Multiple choice, True / False, Fill blanks & Descriptive type questions)
- Homework: Assign homework online and offline
- Self-Study : Create self-study plan for student
- Poll/Survey : Send students with poll/survey on any topic
- e-Board: Instant notification for assigned activity
- Chat: Send and receive message to parents about their wards performance
- View results: Exam results can be generated according to class, students or group.
- Monitor attendance: Attendance of the students can be monitored as report or on screen.
- Graphical representation: The teacher can generate graphical presentations of students results based on performance.
- Model Student: All the other students can view/hear the model student and access all the activities

Parent Portal

LMS provides an interactive overview for parents seeking to understand the challenges their children may face and help out with practical strategies for supporting them along with the help of the teachers. The parents can view all the reports, the examination dates and notification and get their mark list and grades.

- Reports : View all report of students
- Exam report
- Activity report
- `
- Attendance report
- Chat: Send and receive message to teacher about their wards performance
- My Profile : View and update profile

Manager/ Principle Portal

This module provides the management the options to monitor and manage schedules of the teacher and students, their reports on the various activities, attendance, teacher wise reports and student wise reports separately etc... View and manage the lesson plans, dates, individual exam based marks, averages, totals etc

- Access all attendance reports of Teacher & Students
- Retrieve Test results
- Teacher & Students Activity Report
- Performance Report of Teacher & Students
- My Profile :View and update profile

Comprehensive Reports

- Exercise Report - Class Wise
- Exercise Report - Student Wise
- Exercise Report - Subject Wise
- Exercise Report - Teacher Wise
- Exam Reports - Class Wise
- Exam Report - Student Wise
- Exam Report - Subject Wise
- Exam Report - Teacher wise
- Exam Report - Grade Wise
- Exam Rank List - Class Wise
- Student Activity Report - Class Wise
- Student Activity Report - Student Wise
- Teacher Activity Report - All Teachers
- Teacher Activity Report - Teacher Wise
- Attendance Report - Student Wise
- Attendance Report - Class Wise
- Attendance Report - All Teachers
- Attendance Report - Individual Teachers
- Live Class Report
- Voting/Survey Report - Student Wise
- Voting/Survey Report - Class Wise
- Homework Report
- Student Performance (Bar/Pi Chart)
- Attendance Report (Bar/Pi Chart)

Functional Requirements

The portal will be designed as a responsive Website with a set of pages and menus that represent choice of activities to be performed. The pages, menus, and other visual elements must be designed in a visually appealing manner with attractive fonts, colors, and animations. All of these should also be laid out in a responsive manner.

Scope of Project

This Web portal will be a responsive and visually appealing Website to be used by STUDENTS/TEACHERS/PARENTS and MANAGEMENT.

Constraints

The Web portal will not have any facility to store information on the server. Information can be fetched from pre-populated JSON or TXT files and displayed, however, information cannot be written to the files from within the portal.

Common menus/pages to both entities (student, parent, teacher, and management) will be:

About Us and Contact Us: This menu option should display Email id, address, and contact number of the organization who is developing the system.

Over and above this, the portal should implement following functionalities:

- Display a continuous scrolling ticker at the bottom of the page with current date, time, and location (hint: Use geolocation features of HTML5).
- Display a visitor count at the top right corner of the page beside a logo image.
- Menu options should change color on hover and also after clicking.
- Fade-in and fade-out options can be used for the menus.

Non-Functional Requirements

There are several non-functional requirements that should be fulfilled by the Website, henceforth called the 'system'.

The system should be:

Safe to use: The system should not result in any malicious downloads or unnecessary file downloads.

Accessible: The system should have clear and legible fonts, user-interface elements, and navigation elements.

User-friendly: The system should be easy to navigate with clear menus and other elements and easy to understand.

Operability: The system should operate in a reliably efficient manner.

Performance: The system should demonstrate high value of performance through speed and throughput. In simple terms, the system should be fast to load and page redirection should be smooth.

Capacity: The system should support large number of users.

Availability: The system should be available 24/7 with minimum down time.

Compatibility: The system should be compatible with latest browsers.