PROJECT ALPHA SYSTEM REQUIREMENTS
A MARTDEVELOPERSINC X DEVLAN INC PRODUCTION
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This is an Education based system for administration, lecturers and students can interact with students easily and efficiently online.

The system
1. Can be easily ported to an institution web page.
2. The ability to temporarily pause and resume due to update required, failure by institution to pay or cancellation of a contract by the institution.
3. The ability for institution to be subscribe as per

Administrators
There will be 2 types of administrators:
1. System Administrators
2. Education Administrator

School System Administrator
1. The system runs effectively and smoothly with no lags.
2. Should be able to program and update features requested by the school administration.
3. Should be able to add, view and delete courses, faculties, system admin employees both in bulk and individually.
4. Should be able to pause a student account based on report given by educational administrators
5. Should be able to reset student account password once a notification of such is received via email or in person contact with the student.

Education Administrators
1. Ability to view his profile, change picture, contact info and password.
2. Should have an email, that open in a secure webpage
3. Faculty's Panel
   a. Can view all the Departments registered within the faculty
   b. High ranking administrators can add and delete a departments
   c. Can have the ability to view departmental memos and notices
   d. can add memos in the form of pdf and docx or type it in the test box.
   e. Can download departmental memos.
   f. Can upload, view,edit and download class timetable and calendar year for each individual course.
      i. Class timetable include the date the class in happening
         1. The date of the class
         2. The Time the class is taking place
         3. The location of the class
         4. The Lecturer teaching the class.
         5. The Link of the class if it is an online class.
      ii. the Calendar year include
         1. The official opening date for the school

2. The periods at which the semester starts and end

4. Students Panel
   a. Can view, edit and individual student information
   b. Can add new students individually
   c. Have the ability to bulk add students through an excel file.
      i. The excel file can be uploaded based on the courses the students are enrolled in E.g if a 100 students are enrolled in BSc. Education, there should be a separate excel file that can be uploaded.
   d. Have the ability to pause and resume a student's account.
   e. Have the ability to delete a student account.
   f. Ability to view the modules the student is enrolled in.
   g. Ability to change a students th course a student is enrolled in
   h. Ability to bulk change the year the student is enrolled in
      i. This applies when a large number of students are moving from 1st year to 2nd year.
   i. Can view a student outstanding balances(**Not a necessity at the moment**)

5. Lecturers Panel
   a. The ability to add, view and delete lecturer's profiles.
   b. The ability to bulk add lecturers through excel files.
   c. The ability to assign and modify lecturers to certain modules.
   d.
6. Finance Panel***

Lecturer

1. Ability to view his profile, change picture, contact info and password.
2. Should be able to view the modules he is assigned to teach.
3. Incase the lecturer teaches multiple years,he should have the ability to sort the course out to the years he is assigned to
4. Should be able to view the calendar and dates assigned for each class.
5. Should be able to assign meetings dates and venues to the calendar with the bottom tab showing class information such as the lecture halls number, time the class starts and paste a clickable link for either zoom calls or microsoft teams. - >
6. The modules side panel should contain,
   a. Announcements.
      i. Can post announcements and any updates.
      ii. Can view previous announcement
      iii. Should be able to assign meetings dates and venues to the calendar.
   b. Module information
      i. To view his/her information to update it, he/she should go to the profile section.
      ii. The module information and course duration with the ability to modify the module information
      iii. The Weight percentage of CATs and exam for the module with the ability to modify and change.
      iv. How many lectures per week the module will have.
      v. A Recommended reading list or textbook that will be used, this may be in the form of a pdf, doc or link to a library directory with ability to upload and post information.
   c. Course Directory
      i. Can create a folder or upload folders with files in them, and assign naming such as (Sem1, Sem 2 etc).
      ii. Can upload documents such as pdf,docx or pptx
      iii. Can view the documents in a separate window.
      iv. Can download the files and folders.
   d. Class recordings
      i. Ability to upload video files.
      ii. Ability to view previous uploaded video files, with the ability to change the information the video is saved as.
      iii. Ability to delete video files.
   e. Groups
      i. The Ability to view all the students enrolled to the class
      ii. Ability to give announcement
      iii. Ability to assign students to groups and assign a project to each group.
      iv. Ability to view group assignments and grade them accordingly.
      v. Ability to provide feedback to the group.
   f. Assignments and past exam papers

       i.   ability to create a folder for past exam papers
1. Can upload past exam papers.
2. Can view already uploaded past exam papers.
3. Can upload solutions for the past exam papers
    ii.   The Test tab -EMS
1. The questions can be based on question and square to type in the answer or ability to develop Multiple choice questions.
2. Ability to view the questions entered.
3. Ability to set or postpone the deadline for the assignment to be completed.
4. Ability to view results, statistics and data for assignments and students performance.
5. Should be able to give feedback to tests submitted by students or to individual questions.
6. Should be able to give marks and results to assignments.

Students
1. Ability to view his profile, change picture, contact info and password.
1. Should be able to view the course he is enrolled in, with respective course code.
2. A calendar on the days his classes are scheduled for, with the bottom tab showing class information such as the lecture halls number, time the class starts and clickable link for either zoom calls or microsoft teams.
3. should be able to view the semester and year he is enrolled in.
4. A Clickable link showing all the grades achieved in all the assignments submitted.
5. Ability to change the view of the modules to be either to list view or icon and texts
6. should be able to view the modules he is enrolled in.
7. The modules side panel should contain,
    a. Announcements
        i. Auto Generated date of announcement
       ii. only View information given by the lecturer
    b. Module information
        i. The Staff teaching the module
       ii. The module information and course duration
      iii. The Weigh percentage of CATs and exam for the module
      iv. How many lectures per week the module will have.
       v. A Recommended reading list or textbook that will be used, this may be in the form of a pdf, doc or link to a library directory.
    c. Course Directory
        i. Folders uploaded by the lecturers
           1. This contains the uploaded lecture notes by the lecturer defining(e.g Lecture 1, 2, 3 etc)
           2. Can view the files in a separate window.
           3. Can download the files and folders
    d. Class recordings
        i. A drop down to sort streamed lectures containing either the semester or the lecturer

        ii. The Streamed lectures containing the date and time of the lecture took place

e. Groups
        i. Ability to view the groups the student is assigned to.
        ii. Ability to view other students email information.
        iii. Ability to view projects, assignments and tasks for the group.
        iv. Ability to upload assignments given to the group.

f. Assignments and past exam papers
        i. A link that once clicked opens a secure new webpage tab and gives a warning to the student that he is about to start an assignment showing the module of the assignment.
        ii. A Secure new webpage that gives the students the ability to upload pdf and docx based assignments.
                1. The webpage will also contain the information about the assignment and the marking criteria for such an assignment.
        iii. Showing the time period(if any) the assignment has been given if there is
        iv. A folder containing all the past exam papers arranged by year and semester.