Wednesday, September 20, 2016

EdPro Project

# Features of the system

### Student management:

### Description: Keeping track of student registration information, grades and attendances.

### Tasks:

### Register new students.

### Transfer student records from one school to another.

### Add, edit and delete student marks and grades

### Add, edit and delete student attendance.

### Keep track of student payments.

### Staff management

### Description: Keeping track of staff information, attendances, leaves and other staff related information.

### Tasks:

### Registration of new staff members.

### Transfer of staff from one school to another.

### Keep track of staff attendance.

### Keep track of staff leave and breaks.

### Keep track of staff payments and salaries.

### Allocation and schedule management

### Description: Manages allocations of classes, students, subjects, laboratories and teachers.

### Tasks:

### Assign teachers to classes and students

### Generate timetables

### Keep track of class and lab schedules

### Enables arranging makeup classes

### Enables arranging school events

### Provides reports about allocations, schedules and timetables

### Class management

### Description: Provide mechanisms for managing major activities of the class room.

### Tasks:

### Keep track of student attendance.

### Enables teachers to setup and schedule online exams.

### Enables students to take exams online.

### Enable teachers to keep track of grades.

### Enable teachers to setup assignments and keep track of progress

### Keep exam results and grades.

### Enable students to check their marks and grades online.

### Enables analysis and reports on student performances on single exam, on a single subject, or all subjects.

### **Additional Features:**

### Provide mechanisms for self study and self paced learning

### Provide mechanisms for class and lecture materials

### Provide mechanisms for class discussions

### Provide mechanisms for group works and collaborative learning.

### User management

### Enables admins to create users

### Enable admins to delete users

### Profile management

### Enables users to manages their accounts

### Analytics and Report

### Provide a mechanism for generating different reports and to do different types of analysis on the school data.

### The analytics can be used by teachers, school management or government and higher officials to get information about the education system.

### Communication and social features:

### Enables communication among school members using emails and SMS

### Enables notification to students, teachers and parents

### What will be our next tasks?

### Discuss and decide on the project features

### Answer the different questions raised in here

### Provide project plan and schedule.

### Perform requirement analysis.

### Move to the implementation part.

# Actors and user cases of the system

### Student:

### Description: Represents a single student within the system.

### Tasks/User cases:

### Register / Transfer

### Make Payment

### Login

### Manage profile

### Take online exam

### View grades

### View exam results

### View report card

### View attendance

### View events

### View notifications

### Analyze performance

### Report problems

### Request sick leaves…

### Teacher:

### Description: Represents a single teacher within the school.

### Tasks/User cases:

### Register / Transfer

### Login

### Take attendance

### Login

### Manage profile

### Manages course/subject schedule

### Manages course/subject materials

### Give online exams

### Create events

### Exams

### Make up classes

### Trips

### Manage grades

### Generate reports

### Analyze student performance

### Report problems

### Send notifications

### Request leaves / sick leaves …

### Request schedule change

### Teacher Administrator:

### Description: Represents a single teacher administrator within the school who will be responsible for creating time tables and managing them within the school.

### Tasks/User cases:

### Assign teachers for classes

### Generate and manage schedules

### Generate and manage time table

### Manage schedule change requests

### Create school events and schedules

### School exams

### Exam schedules

### Trips

### Holidays

### Breaks

### Create notifications

### Report problems

### School Manager:

### Description: Represents a single person within the school at a managerial position. Who will be interested on viewing different reports on school performance and perform different analysis on the school data.

### Tasks/User cases:

### Login

### Manage profile

### Generate/view reports

### View / answer reported problems

### Perform different analysis on school data

### Create notifications

### System Administrator:

### Description: Represents a single person within the school that manages the school management system.

### Tasks/User cases:

### Login

### Manage profile

### View / answer reported problems

### Create / manage users

### Create notifications

### Manage system

### Registration officer:

### Description: Represents a single person within the school who is responsible for registering students and accepting payments from students.

### Tasks/User cases:

### Login

### Manage profile

### Register / transfer students

### Make payment information for students

### Report problems

### Generate / view reports

### Human resource officer:

### Description: Represents a single person within the school who is responsible for recruiting employees and staff.

### Tasks/User cases:

### Login

### Manage profile

### Register / transfer staff

### Generate/view reports

### Report problems

1. Central Exam board user

-Description: Represents a person within the national board exams body that will upload exam results.

-Tasks/Use case:

### Login

### Upload national board exams results

### Upload board exams registration list

### Update requirements for exam registration

### Update registration list and exam calendar

### Generate/View reports

### Report issue on view

### Teachers service commission user

### -Description: Represents a person in the teacher employment body that will upload policies and notifications

### Tasks/Use case:

### Login

### Upload notifications on teacher contracts

### Update important meeting dates for members

### Generate/View reports

### Report issue on view

### Ministry/Region manager

### -Description: Represents a manager at either the regional ministry of education or Central ministry of education responsible for analyzing schools’ data.

### -Tasks/Use case:

### Login

### Extract school related reports

### Report issue on view

### Update school calendar and important dates.

### General reporting user out of the school

### -Description: Represents a user outside the school and either within any of the school and exam governing bodies or external company/scholarship body looking for student history.

### Login

### View reports