DOMAIN EXPERTISE WORKSHOP

Based on educational industry

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INDEX

1. Introduction
2. Enterprise resource planning
3. Education platform

**INTRODUCTION**

Domain knowledge refers to a broad-based understanding of a particular industry or solution. A subject domain expertise is a person that is an expert in a particular domain. Domain experts have developed special skills through prior experience in that particular area. Through their experience, they have also amassed a special level of knowledge capital. Expertise is critical during any development. Understanding how things really work and having prior experiences to reference can make all the difference in the world. Domain expertise know best practices and can validate accuracy in their domain. They will tell you what needs to be done, how, and will validate the results to make sure you maximize the efficiency of software.

Domain knowledge is very important for software developers. Knowledge of multiple domains is equally important. Knowing and performing your expected role is also very important. Education is a domain we do not take seriously but if you think about we can find that education is a field that is going to require software development frequently. It is because it an ever-growing field. Education system is exploding and the need for a software is never ending. The education industry is expanding rapidly.so it’s important to discuss about the Education system.

**Enterprise resource planning**

Enterprise resource planning (ERP) is business process management software that allows an organization to use a system of integrated applications to manage the business and automate many back-office functions related to technology, services and human resources.

**Uses of ERP system**

* Power institutional growth
* Accelerate student success
* Improve institutional effectiveness
* Automate the entire student lifecycle
* Secure sensitive information

**EDUCATION PLATFORM**

In this review, I have mentioned the basic modules of the educational system. Each module is a set of tasks an education institution does manually.

1. ***Admission Module***

The admission process is one of the very difficult to manage section in the educational industry. Student admission is a mandatory part of any educational institution (school/college etc.). This module provides a student admission process using following simple steps which are,

* Enquiry(offline/online)
* Application
* Registration
* Selection and Admission

***2) Academics Module***

This module automates the entire student life cycle from admit ion enquiry to class completion. Also, this school automation system provides a communication channel between student and teacher through the following sub modules,

* Course and Batch
* Assignments
* Academic calendar
* Time table

1. ***Student file Module***

This module deals with day to day activities of students such as,

* Profile
* Attendance
* Remark and Incidents
* Student/Parent Login
* Health Record

1. ***Human Resources Module***

This is very important module. It contains the following sub modules,

* Staff Profile
* Leave
* Achievements
* Employee Login

1. ***Administration Module***

This module allows to carry out all the administrative tasks which consume a lot of time and requires much attention and efforts, easily and effortlessly. It saves a lot of time and human resource by managing many of the things which your school carries out on a daily basis. The user can manage school administrative tasks easily and make reports on daily basis of different tasks.

This module contains the following sub modules

* Front Office
* Task Management
* Access control
* Courier Tracking (Exam Paper Tracking)
* Instituted Profile

1. ***Finance Module***

  By using this module, we can easily invoice school’s fees, trips or sport activities based on student’s profile or information provided online by parents. Online payment is available on Parents’ or company portal where they can easily track their account balance. This module contains the following sub modules

* + Accounts
  + Payroll
  + Payment Gateway Integration

1. ***Communication Module***

Communication module allows you communicating with the students, parents and teachers of the school. You can also send documents and information to be sent to a particular group of students or their parents easily. Repot cards & attendance details sent to parents directly so parent can also communicate through like SMS and emails. Sub modules are:

* Internal Messaging
* SMS Integration
* Email Integration
* Voice Call Integration

1. ***Fee Module***

This module deals with:

* Schedule and Collect fee
* Fee Report
* Fee Imports
* Alerts and Reminder

1. ***Analytics Module***

This module contains the following sub modules,

* Usage Analytics
* Advanced Reports
* Performance Analytics

1. ***Relationship Module***

This module deals with

* Committees
* Vendors
* Guest

1. ***Dashboard Module***

This module contains the following sub modules

* News and Events
* Birthday Wishlist
* Quick Notes

1. ***Training and Placements Module***

* Placements
* Training Programs

***13)Document Center Module***

This module contains the following sub modules

* Issue Documents
* Web Documents
* Document Repository
* Templates

1. **Alumina Module**

**Sub modules are:**

* Manage Alumina
* Alumina Login
* Alumina Data Collection

1. **Examination Module**

This module contains the following sub modules:

* Scheduling
* Reports
* Exam Duty
* Online exam

1. **Facility Module**

* Hostel
* Canteen

1. **Library Module**

This module contains the following sub modules

* Catalogs and Registers
* Dues and Fines
* Barcode Scanner Integration

1. **Transport Module**

Sub modules are:

* Routes and Vehicles
* Fee collection
* GPS Integration

1. **Survey Module**

This module containing sub modules are:

* Student Polls
* 3600 Feedback

1. **Events Module**

This module contains the following sub modules are:

* Meeting
* Events
* Workshop

**CONCLUSION**

In software engineering, domain knowledge is awareness of the environment in which the target system operates. Domain knowledge is important, because it usually must be learned from software end users in the domain (as domain specialists or experts), rather than from software developers. If you’re part of an organization where software is key to the successful running of your business, there are probably lots of areas where you’ll engage people to work with it, from writing code and designing interfaces to research, maintenance and support. Education is a domain we do not take seriously but if you think about we can find that education is a field that is going to require software development frequently. It is because it an ever-growing field. Education domain knowledge is very important when we creating an educational institution automation system.