



**Classlink**  
*(Case Study)*

## **Company Profile**

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*Webdunia is a leading software development, portal and Localization Company based in India. Judicious blend of management & business analysis have whetted us to emerge as one of the most agile & trusted solution partner for leading MNC's like Microsoft, Yahoo, Google etc.*

*Reaching new horizons, since our inception, Webdunia is the unequivocal destination for Localization, Business & Wireless Application development services that are sourced to bring 'value' to our customers. We are focused on delivering cutting edge solutions, where business and technology strategies are conveniently converged.*

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## **Solution**

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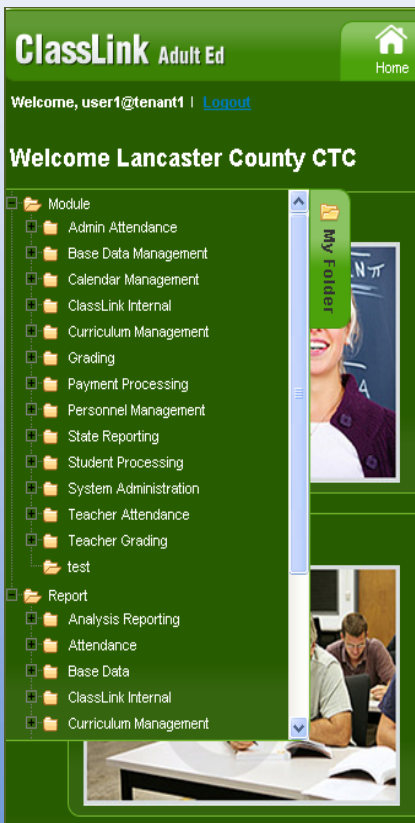
*Classlink – A web based application useful for administrators, teachers and students to keep a track and manage all activities related to adult education programs.*

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## **Benefits**

- Useful for Administrators, Teachers & Students
- Web Based Application developed using open source software
- Based on Multi-Tenant model
- Easy to use standard GUI controls
- Multiple themes for intuitive look

*Classlink is a web based application that enables Secondary Career and Technical Education (CTE) Schools to maintain and track information related to their Adult Education programs.*



## Situation

Existing system was a desktop application developed in VB.Net. The access to the application was restricted to the places where it was installed.

Application was developed in visual basic and used SQL Server 2000 as database. It had several data integrity issues and data design was not proper.

## Solution

Classlink is a complete web based application developed in PHP technology. It is a multi-tenant application, where the same model can be deployed on multiple tenants. Data Migration Tool developed in .NET technology helps to transfer data for each tenant from existing old system to new system that use MySQL database.

## Challenges

- To understand existing DB schema and working of forms. The data flow and module/table mapping details were explored from existing VB application.
- To explore and customize JQuery Grid, and tree features. To manage the UI on Web just like VB application i.e. using Tree and Grid as VB component.
- To apply data integrity and constraints along with maintaining legacy data. Migration of existing data to new DB design was a big challenge as existing data had redundancy and inconsistency issues.

## Distinct Features

### Users

Application is very useful for administrators, teachers & students to track and maintain all information related to various adult education programs. Role based access is provided to users for various modules.

### Multi Tenant

Classlink is a multi-tenant application where the same model can be deployed to multiple tenants easily.

### Colorful Themes

Multiple colorful themes are there, one can change the look and feel as per choice.

### Intuitive GUI

Application has easy to use standard GUI controls that makes it user friendly.

### Data Migration Tool

Data Migration Tool developed in .NET enables to transfer data for each tenant from old system to new system. It imports data into MySQL database from MS SQL Server. It also adds reference data in reference tables corresponding to master tables.

### Modules

Application manages and keeps a track of information related to educational programs via several modules.

### Base Data Management

It enables to manage all basic information of education programs such as contacts, payment, location, fee, attendance, grading etc.



## Calendar Management

To manage calendar and classes scheduled and re-scheduled based on these calendars.

## Personnel Management

Keeps a track of all personnel details for various locations.

## Payment Processing

To manage both types of accounts (payments and invoices) & other payment activities.

## Student Processing

To manage all student related info like registration, enrollment, contact details, certificate eligibility etc.

## Curriculum Management

To manage all details related to various courses offered & certification tests.

## Reports

To manage and generate reports for various modules.

## System Administration

With the help of this module, the administrator can manage, edit settings of all modules and reports.

## Attendance

Keeps a track of admin and teacher attendance like it's begin session, work ethics etc.

## Grading

Keeps a track of admin and teacher grading like grading by class, task etc.

## Technology Used

- Operating System: Linux
- Web Server: Apache
- Development Language: PHP
- Framework : CodeIgniter
- Database: MySQL Community Server
- HTML/CSS and animations using jQuery
- Reports: Jasper Server (PHP/Java bridge) and iReport Tool
- Code Documentation: PHP Doc Specification

