

NIBBLE SCHOOL INFORMATION SYSTEM

Students
Community

Search

Member:

Student:

Get Parents eMails for:
all/xx students
students in 2009/2010

Ryan Smith, 6 (PYP4)

Student ID: # 1 *Gender: Male

*Name: Ryan

Website Account: [New](#)

*Birth Date: 5/8/2003 (m/d/y)


Birth City: Birth State:

*Country: Barbados

House: Gooding Erstage *Family: Smith

Nationalities

ID	Code	Name
# 72	BB	Barbados



[Direct 196x233 show 196x2] [Action](#)

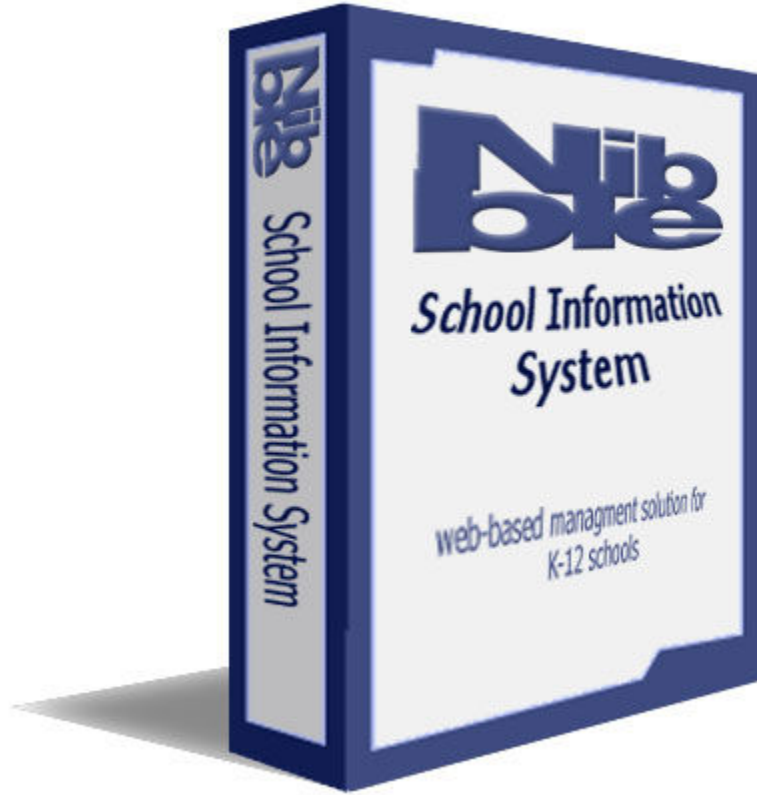
[Save](#) [Delete](#) [Add New](#) [List](#) [Presences](#)

Contacts		Attended Classes	Charges	Health	Note			
Add New								
ID	Name	Status	Type	Emergency	Home	Work	Mobile	Email
# 2	Tracey Gunn	Enabled	Mother	First	428 6453	423 4546		tracey.gunn@domain.com
# 1	John Smith	Enabled	Father	Second	433 4564	428 4563	230 5544	john@domain.com



Nibble School Information System

Solution Description
1-Jan-2010



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Introduction

The present document describes Nibble School Information System, a web-based solution which offers a complete set of tools to manage small/medium primary and secondary schools.



Overview

The solution is based on Nibble School Information System which offers tools to manage the school community entities such as:

- School Years
- Classes
- Students
- Families
- Community Members (teachers, staff and parents)

All from a convenient user friendly web interface which optionally includes a fully manageable and customizable website allowing any member of the community to access the same shared information; based on the granted permissions each user can update different data like:

- parents can update their own contact profiles
- home teachers can track daily student presence
- admin staff can charge school fees and register payments

The optional website module fully integrates with the School Information System, allows defining areas reserved to community members and offers a number of tools to directly create/update the website content; here are few examples of included content managing tools and features:

- On page text editing and formatting
- Easy picture upload and processing
- Create new pages based on templates (unlimited pages)
- Multi-level dynamic menu editing
- Advanced content rendering components gallery
 - Rotating pictures
 - Items Lists with conditional displaying
- Advanced services
 - Media Gallery with Slide Show
 - Documents Library
 - Automatic Site Map
 - Free text search
 - Online surveys
 - Forums
 - News system
- Multi-language support

Website content creation and managing is provided by Nibble Application Framework; please check our website for more information.



Program Functionalities

Here is a summary of the program functionalities:

Service/feature	Description/price
School Management	
Community Members	Members are regular website users with special permission granted; members can manage their own profile keeping it updated with address and phones number changes; the website automatically recognizes returning members and requires a password to let them in restricted areas; based on their configured connections to families, members have access only to specific data (e.g. their kids profile and classes)
Classes	Classes are created for each school year with one home teacher attached and other info (class location); students are attached to classes for the actual period of assignment (the tool supports students joining in any time, moving to other classes and leaving before the end of the year)
Families	Students are connected to Families; families then have a set of contacts attached (Father, mother, tutors, relatives...); family contacts can be either actual website users or just phonebook entries. Any community member can show as contact for more than one family.
Student Presence	Authorized users (e.g. Home teachers, assistants or admin staff) can easily track the student presence using a calendar-like screen; presence report for single student, class or the entire school are available; an instant report showing who is present at any given date and time is available in the system Dashboard.
School Fees	Track charges and payments.
Student	The student profile includes basic information (name, birth place and date, nationalities, family...), internal notes record, a fully detailed Health Record, fee charges, family contacts, class attendance record and presence.
Members	Members browser and search
Students	Students browser and search
Website Management	
Content Manager	Full online content manager providing tools to easily insert and format text, upload and resize pictures, create new pages, reorganize the dynamic menu and more. Several layout templates are available to create and customize the pages. Pages, menu items or even page portions visibility can be limited to groups of users or other custom conditions. Several special services and tool are available to make the website a rich and interactive information system: blogs, event planner/archive, news archive, forums, surveys and more. Support for all major browsers.



Screenshots

This section shows some examples of system screens:

Member profile

- contact information (name, address, email..)
- picture
- related families

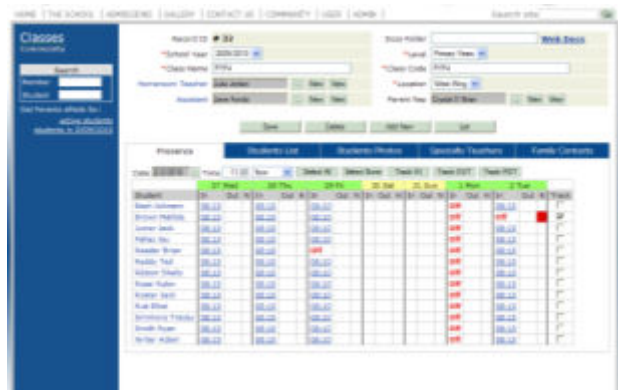


Student Profile

- Student name, DOB, nationalities
- Picture
- Family contacts
- Attended classes
- Charges
- Health record
- Internal Notes

Class Profile

- Name, school year, level, location
- Home room teacher, assistant, parent rep
- Student Presences report and tracking tool
- Student list and photos
- Specialty teachers
- Family contacts





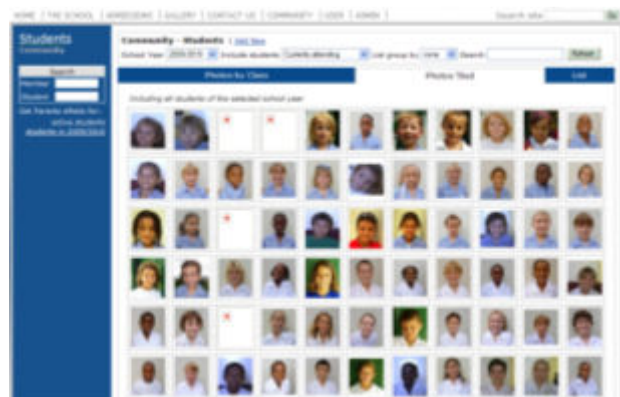
The dashboard displays a grid of student presence data. At the top, it shows 'In: 127 Out: 0 Off: 5 (Tot: 132)'. The data is organized into columns for different levels (e.g., PYP1, PYP2, PYP3, PYP4, PYP5, PYP6, PYP7, PYP8, MYP1, MYP2, MYP3, MYP4) and rows for individual classes. Each cell in the grid contains a small icon representing a student's status (e.g., green for present, red for absent).

Dashboard

- Overall students presence at any given date/time
- Classes report by level or location
- Students Headcount Planner

Students List

- By class
- All pictures
- Group by class, house, age and family





Solution Cost

The solution has an initial cost of \$6,300us which includes the installation of the system, initial training and the first year subscription; a subscription fee is due every following year.

First Deployment (*)	\$3,500
	Up to 150 students Remote program Installation and configuration (assuming server/network requirements are met)
Initial Training	\$800
	<i>Configuring and maintaining the System</i> Administrators (3 users, 2+2 hours) <i>Day by day System Tasks</i> Teachers (5 users, 2+2 hours) 8 hours total training.
Annual subscription fee (*)	\$2,000
	Program maintenance and Online support.
Initial Cost (1 st year)	\$ 6,300
Customization Services	\$75/hour
	Requirement analysis Solution design Solution implementation Solution deployment and data migration
Additional training or extra support	\$75/hour
	Online/onsite

Prices in US dollars

(*) Here are some more details on what is included in the solution costs:

First Deployment	
Included	Not Included
<ul style="list-style-type: none"> ○ System requirements verifications <ul style="list-style-type: none"> ○ Server HW and OS ○ Network ○ Internet connection ○ Email services (SMTP, recipients) ○ Backup devices ○ Program setup <ul style="list-style-type: none"> ○ SQL Server ○ Program files ○ Database ○ Nibble System Management Tools (monitoring and backup) 	<ul style="list-style-type: none"> ○ Infrastructure <ul style="list-style-type: none"> ○ Server specifications, purchasing, setup and configuration ○ Workstations configuration ○ Network configuration ○ Internet Connection ○ Email services ○ Domain registration ○ Program <ul style="list-style-type: none"> ○ Website design ○ Initial data entry

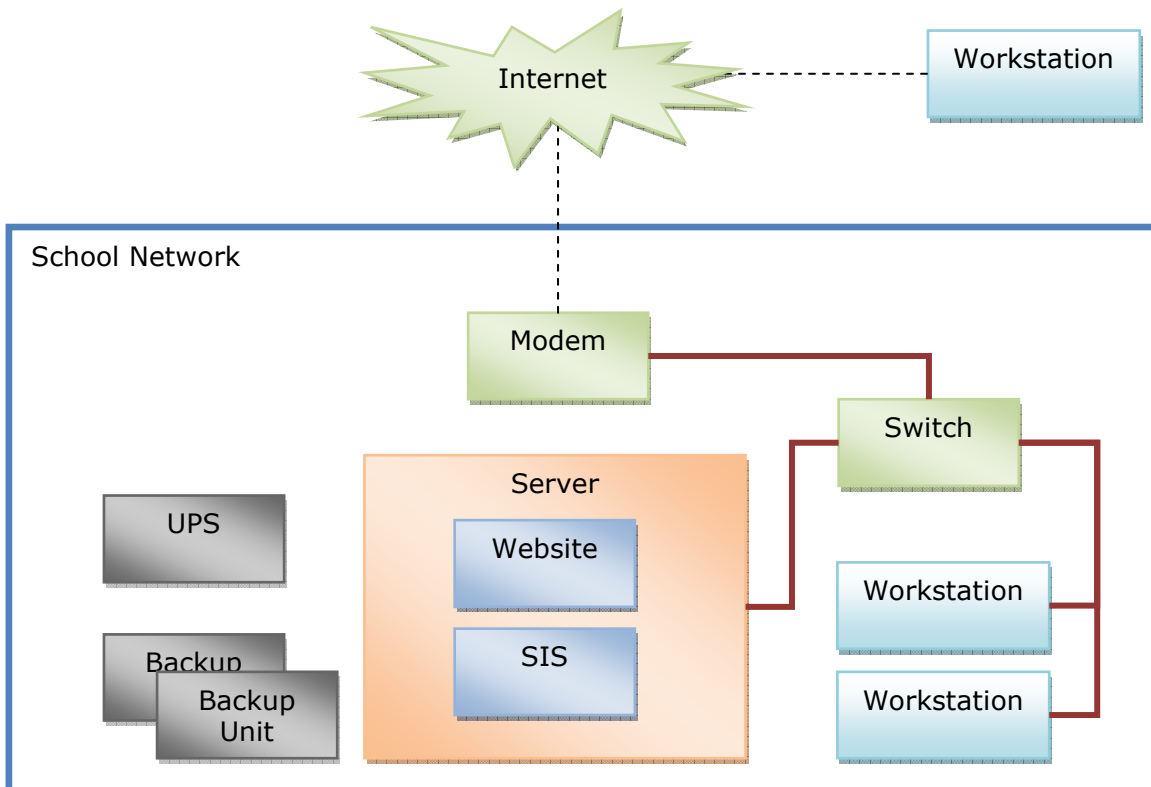


<ul style="list-style-type: none"> ○ Website default home page ○ Program Initial configuration <ul style="list-style-type: none"> ○ Configuration tables ○ Sample data: school years, Classes, Students, Families, Members <p>Full initial program configuration is included in the Initial Training module for administrators.</p>	
<p>Annual subscription</p>	
<p>Included</p>	<p>Not Included</p>
<ul style="list-style-type: none"> ○ Software updates ○ Online support for school staff ○ Program maintenance and Software Updates ○ System monitoring 	<ul style="list-style-type: none"> ○ System infrastructure support (Server, network and workstations) ○ Community Members support ○ Program customizations ○ Additional training

Requirements and Limitations

The required platform specifications depend on the actual solution design and estimated workload (number of users, database size...); the following is provided as a general indication:

- **Server**
 - Minimum (max 8 concurrent users, no website support)
 - Windows XP Professional, 4GB RAM, 160GB HD, 100GB backup unit
 - Recommended (unlimited concurrent users, website support)
 - Windows Small Business Server 2008 Premium with 5 CALS or more, 8GB RAM, 500+500 GB RAID1 HD, 2 x 500GB backup units; optional supported services: Advanced Email Services (Exchange), Document Management (SharePoint) and Network services (Active Directory, DHCP, DNS, VPN...)
- **Workstations**
 - Windows/Mac with full-featured Internet Browser (Internet Explorer, Firefox, Chrome or Safari)
- **Network and other services**
 - Local network (100MB)
 - (recommended) managed switches
 - UPS to support Server, modem and switch
 - Internet connection (min 2Mbit ADSL with fixed IP address)
 - Modem with NAT and port forwarding support





Adopted Components

The current solution is based on the following pre-existing software components:

- Nibble Application Framework
 - System general run time services (user authentication and tracking, system administration tools)
 - User interface components and code libraries
 - Website Content Management tools
- Nibble School Information System solution
 - General implementation of school management functions as described in the present document
- Microsoft Services
 - MS SQL Server 2005/2008 for database management
 - MS Internet Information Services for website publishing

Solution Ownership

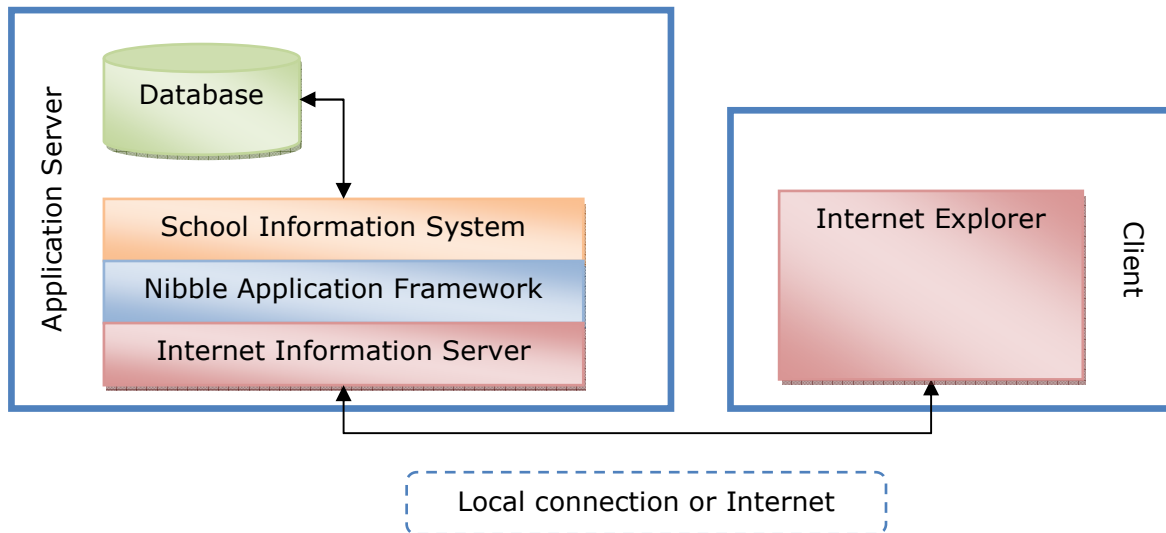
Once completed, the solution instance is owned by the customer who is allowed to use it with no time and number of users (*) limitations within the business organization defined in the project contract; the customer cannot resell the solution as a whole or in part to any other party.

The pre-existing modules (Nibble Application Framework and Nibble Sales Management System Solution template) used by Nibble to develop the solution instance will remain intellectual property of Nibble Computer Solutions Inc who can freely reuse and resell them.

(*) although the licensing model doesn't put any limitation in the number of users that can access the deployed system, appropriate hardware and software upgrades may be required to support a workload bigger than the one initially addressed by the solution.

Program Architecture

Diagram



The system is hosted on a central server running a Windows platform (Windows XP Professional or Windows Server 2003); users access the application from a generic web browser; the connection is based on internet protocol (HTTP); both local and remote connections are supported.

Advantages

The solution architecture offers the following advantages:

Low deployment and maintenance costs

Even if accessed by many users from different locations the system can be fully managed and maintained by operating on the central server; no intervention is required to install or maintain workstations.

Access from anywhere

Users can access the system from any workstation running a generic Web Browser (Internet Explorer is recommended) support both local and remote connections through the internet.

Mobile devices support

Thanks to the adoption of standard communication protocols (HTTP) a user interface for mobile devices such as Pocket PC or Blackberry can be easily added.

High Data Security

End users can access the system data ONLY through the application layer which implements appropriate business rules to allow only authorized operations based on the actual user permissions; no direct access to the physical database is needed; no virus present on the client computers can affect the back-end system.



High System Reliability

The centralization of the data allows efficient monitoring and backup procedures; no data is stored on clients.

Low bandwidth requirement

The communication between the clients and the server is based on the same protocol used for general internet browsing (HTTP) which has a very low bandwidth requirement; such approach reduces the traffic on your local network and keeps the system responsive even when used from remote locations.

System Management

A set of run time services included in the solution will ensure proper system reliability and manageability:

- **Nibble BackupCtrl**; this tool automatically executes data backup using external HD; the tools performs a number of functionalities including: backup size calculation, backup unit presence and free space, backup output file verification, backup history cleaning and full email and web reporting.
- **Nibble Monitoring Tools**; a set of tools performs constant automatic checking of the critical part of the system including: memory and disk free space, backup and other jobs execution, network connection and devices availability, system event log errors and warning.

In addition the School Information System program module is configured to immediately report errors to our technical support.