

BMI Student Card Report For US Public Health Company

[HEALTHCARE – STUDENT HEALTH CARD – ASP.NET 3.5]

Client Overview

About Client: A U.S.A based client which provides public health resources to promote physical activity in greater Nebraska which allows for research studies that tie physical activity to health, academic performance, parental activity and psychological health through a coordinated initiative.

Requirement Overview & Challenges Ahead:

Client wanted Silver Touch to assist in the designing and development of a new, more robust and extensible web-based application to capture, store and generate student health information related to vital health indicator, body mass index.

The primary aim of the initiative was to develop an expert resource center for client partners to access information related to physical activity programming. The client needed such an application which provides facility to capture the vital health parameters of individuals belonging to active community interest groups, schools and worksites. On the basis of the information captured the application is required to calculate the BMI for each individual and use this information to increase

physical activity and nutrition knowledge among participating community children, worksites and seniors.

The application should have time saving features like importing bulk data of individuals belonging to a group so the health information related to body mass index can be drawn efficiently.

Proposed Solution: Silver Touch has provided highly comprehensive solution; wherein the authorized users can have the website access as per the assigned privileges. Website administrators have rights to manage entire website contents from the backend. The solution enabled the client to manage School-wise, Class-wise Student BMI information. The solution Client also provides the facility of importing BMI data through a structured electronic file. The main feature of this application is generating group-wise BMI information. There are various options available to generate BMI information. Client can generate report for specific school, class, gender, age group, city, state, district or grade. The solution also provides the facility to export the BMI information in a structured electronic file.

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Benefits

The intended benefit of this application is to enable the site super administrator to manage the entire website features and functionalities from the backend in an easy & efficient manner. The web application leverage the benefit of the internet in making the application accessible to its users from different places (i.e. different districts) and collect the data & contents within the website using secured user id and password mechanism. Using this application the client could able to collect health data of individuals on society level from a targeted geography by partnering the various active community interest groups, schools and worksites.

Solution also helped client to achieve their primary aim of managing physical health information.

Description

The main objective of this web application was to assist the client in the designing and development of a new, more robust and extensible web-based application to store and report student health information related to body mass index and generate percentile, aggregate reports. The website provides privileges for website access to their sub admin users as school administrator, District administrator and Site super administrator. Each different sub admin users are competent to upload information related to student's health and reports to the website. The super admin of the site has the privileges to manage all site contents and also rights to accept or reject it from the backend.

Objectives

The Project Objectives were:

1. Need to create of up to three security roles such as:

- 1.1. Super admin
- 1.2. District admin
- 1.3. School admin

2. Website accessible functionalities:

- 2.1. Allow users to add, edit and delete details related to districts, schools, sections, students, body mass reports.

3. Allow search on each module for each fields and give look and feel like windows application – information available on single click.

4. Following requirements would be necessary to implement in new development:

- 4.1. Need to Import and Export student information
- 4.2. Physical Measurement
- 4.3. BMI aggregate report

5. Different Testing would be necessary to do before to run the application on client server:

- 5.1. Unit tests, Integration tests and Regression tests followed by deployment on client's server.



The screenshot displays the BMI Student Card Report application interface. It features a sidebar with navigation icons for 'Home', 'Students', 'Reports', and 'Settings'. The main content area is titled 'Search Student' and includes a search bar and a table of student data. The table has columns for 'Student ID', 'Name', 'Age', 'Weight', 'Height', 'BMI', 'Status', and 'Action'. The data rows show student information, with the last row highlighted in red.

Student ID	Name	Age	Weight	Height	BMI	Status	Action
101	John Doe	15	60	1.70	20.76	Active	View
102	Jane Smith	14	55	1.60	21.48	Active	View
103	Mike Johnson	16	70	1.80	21.60	Active	View
104	Sarah Brown	15	65	1.75	21.24	Active	View
105	David Wilson	14	50	1.65	18.42	Active	View
106	Emily Davis	15	60	1.70	20.76	Active	View
107	Chris Miller	16	70	1.80	21.60	Active	View
108	Alexander Lee	15	65	1.75	21.24	Active	View
109	Isabella Garcia	14	55	1.60	21.48	Active	View
110	William Martinez	16	70	1.80	21.60	Active	View

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Project Approach - One More Step Ahead Towards Success

The Project was divided into 4 different phases:

- 1. Phase 1:** At the initial time of the project we have done analysis on the Prototype for the System Flow, Database Design, Implemented membership provider and created security session.
- 2. Phase 2:** In the second stage of the project development, we started work to create a web application including all master modules and rich User Interface.
- 3. Phase 3:** In the third stage of the development, we started work to Calculated BMI percentile, generated reports.
- 4. Phase 4:** In the final stage of the development, we have done Setup of testing environment (same as the production environment) using dummy data.

Technology

Development Platform

Technology	Specifications
Technology & Framework	ASP.Net 3.5
Database	SQL Server 2005
Web Server/Hosting Platform	IIS 5
Languages	Vb.net
Operating System	Windows XP, IIS 5

Deployment Platform

Technology	Specifications
Technology & Framework	ASP.Net
Database	SQL Server 2005
Web Server/Hosting Platform	IIS 5
Languages	Vb.Net
Operating System	Windows 2003

Duration

1. Project Man Hours: 940 Man Hours
2. Project Life Cycle: 150 Man Days

Results Achieved

The application has tested successfully and deployed to the client side and currently running successfully.

Accomplishment

1. Role based user access to the website
2. PDF support BMI card reports
3. Rich user interface.

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Screen

The screenshot displays a web application interface for editing school information. The top navigation bar includes the 'UNK' logo, the title 'Edit School', and user information 'Welcome, SAURIN' with links for 'Help', 'Logout', and 'Change Password'. A left sidebar contains icons for 'BMI Information', 'Classes', 'Students', and 'Import'. The main content area is divided into two sections: 'School Information' and 'Primary Contact'. The 'School Information' section contains fields for School Name, Address, City, County, Description, District, and Contact. The 'Primary Contact' section contains fields for First Name, Last Name, Address, City, State, Zip, Phone, Email, and Website.

School Information		Primary Contact	
School Name *	Fenwood	First Name *	Jim
Address *	1511 5th Avenue	Last Name *	Clevenger
City *	Kearney	Address *	no
County *	Buffalo	City *	Kearney
Description		State *	NE
		Zip *	68845
		Phone *	308-665-6000
District	Kearney Public Schools	Email *	ardm@kps.org
Contact		Website	



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About SilverTouch

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SilverTouch is actively engaged in Enterprise software development, enterprise content management, document management and IT consulting services such as Business process optimization, process consulting, implementation and customization of ERP. SilverTouch leads brilliantly in new technical developments such as: Mobile Application development services on iPhone, iPad, Blackberry, Android, J2ME and Windows mobile platforms. Even now, SilverTouch helps its global clients for major developments, deployments and managements of their mobility solutions and enterprise application development programs.

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