SILVER TOUCH®

Case Study

Health Care Backend Portal

Client: US Based Client

Client Vertical: Health Care

Project Type: Custom Admin Backend

Technology Used: Symphony, MySQL, KendoUI

Client Overview

About Client: Client specializes in delivering high value healthcare and physician management solutions in the area of physician compensation. Client is on the premise that healthcare can be optimized through leveraging technology at a low cost without sacrificing accurate and meaningful information. Client is not only providing value service to clients through its products, but is also to ultimately deliver this value to the patients through creating excellent healthcare organizations.

Vision of client is to establish leading healthcare services organization in managing physician relations, physician/hospital integration strategies, revenue strategies, performance optimization and information management through automation software solutions and partnerships with industry thought leaders, payers, governance organizations and academic institutions.

Proposed Solution:

- Looking to the client's requirement and expectation, we developed the solution in Symphony Framework
- For proper listing of the data in table view, we have used Kendo UI Grid view as the solution
- Customization was required to be done in built code for importing / exporting data log in grid and in Kendo UI as per client's requirement
- Backend Portal also has the facility of column pickup
- Client provide Stored Procedure was implemented with the back end for data management

Requirement Overview:

- Client already had a physician management system in symphony framework and they wanted to have a robust backend management for their system
- Backend admin should manage the information related to Doctors, specialties, credits and positions
- Single Administrator to manage the backend modules
- Backend user-interface should be same as frontend with four different tabs such as Organization, Events, Company Plans & Results with sub-menu tabs
- All the information should be displayed in Tabular format with facility to Add, Update and Delete Functionalities
- Sorting, Filtering and Paging facility on Table data
- Incorporate user defined stored procedures for data manipulations
- Backend should be compatible with mobiles and tablets

© copyright 1992-2014 all rights reserved. Property of SilverTouch Technologies Ltd.

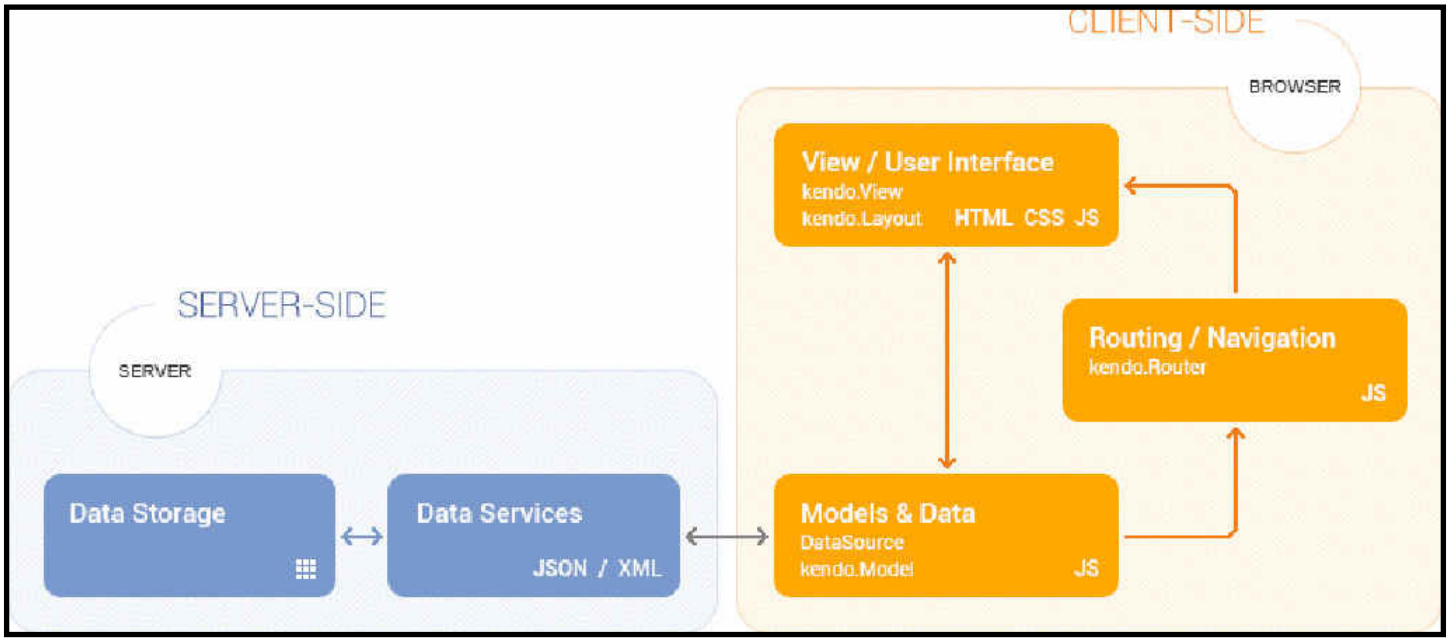
CMMi Level 5 RATED

Benefits

1. Single backend for all basic operations is now possible
2. Admin can edit or delete information from list using single click.
3. By double clicking any row in the grid, Admin user can directly go to edit mode.
4. Client is now able to export the log details of any department
5. Doctor's information is now easily accessible in case of emergency
6. Admin is now able to enable, disable, filter whole column using column pickup functionality
7. With the help of visualization charts in kendo UI, quick data analysis is now possible

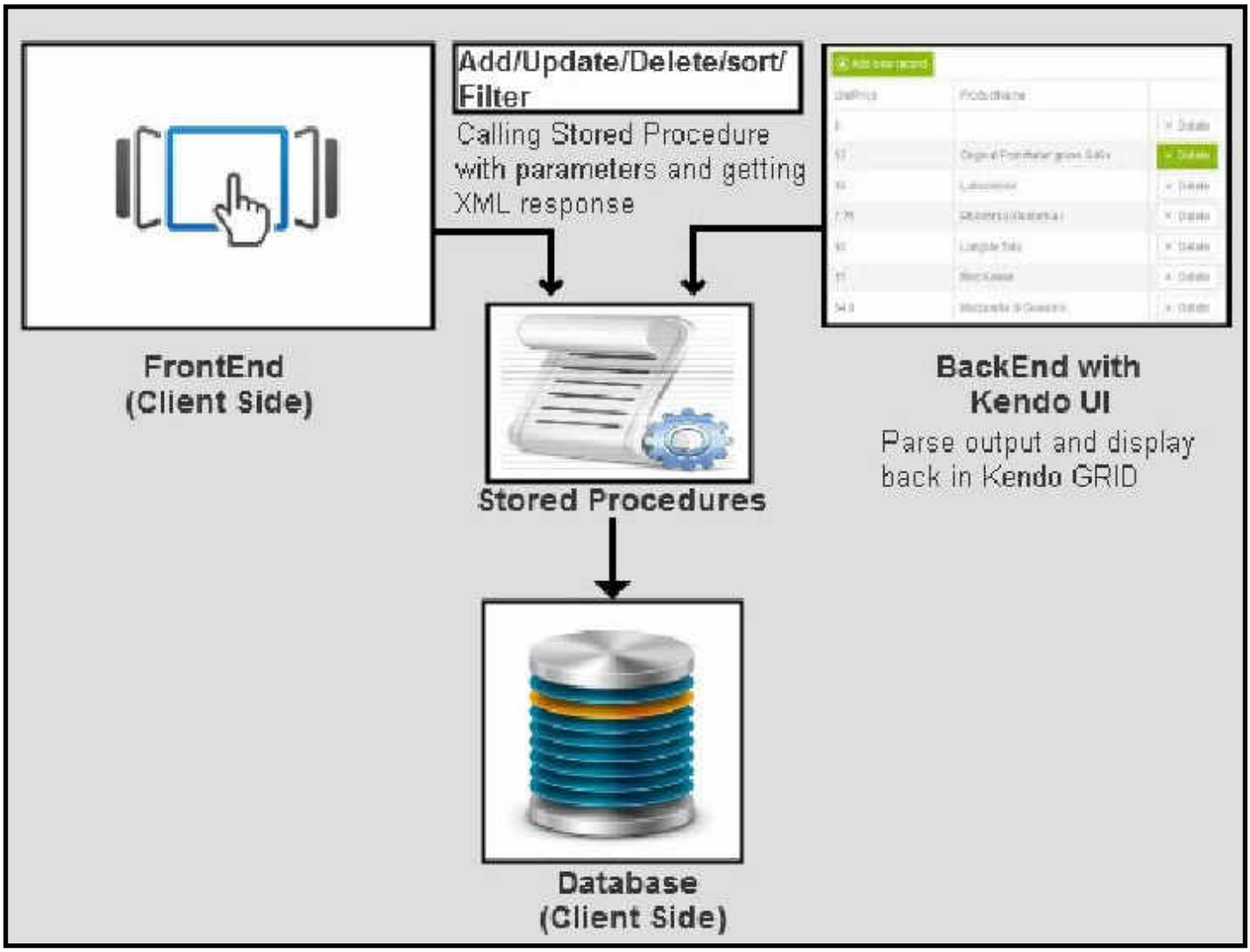
Project Description & Flow

Kendo UI Architecture



Health Care Backend Portal

Project Flow



Project Description

- We have developed Backend for Physician Management System using the Stored Procedures provided by the client for various operations
- Application was developed by implementing the encrypted stored procedures to fetch the data from client database
- Backend was developed using Kendo User Interface, a third party tool exclusively to display the data in Grid view
- Complete backend management was developed for Administrator use only
- Implementation of the process of calling of stored procedures with parameters (Input) and getting XML response of stored procedure (output) , Parse output and display the data in Kendo GRID
- Only Administrator user has access for the back-end to manage the modules, Title and speciality and information related to Doctors', Credits and Specialties
- Backend has the functionality of paging, filtering, searching and managing data and it also includes add, edit, and delete functionality for all information
- For every page, there is tabbing functionality to manage all menus and submenus

Health Care Backend Portal

- Column pick functionality has been implemented to facilitate the administrator enable / disable the filter data of entire column
- Filtering data at client as well as server side has been implemented
- Backend portal also includes the functionality of Events & Plans for Doctors and is compatible with mobiles and tablets
- Administrator can manage doctors' incentives, credits and payments
- Administrator can manage the doctors' data by name, speciality and position
- Import/Export functionality has been incorporated with backend portal. Administrator can even export the Audit Log for review

Objectives

1. To develop secure backend for data management
2. To manage add, update, delete, filtering, paging functionalities dynamically
3. To Implement import/export data utility for all data grid
4. To develop the system that is compatible with mobiles and tablets
5. To perform all operations using customized stored procedures

Project Approaches / Activities

The Project was divided into various phases to achieve the best results in less time with optimal utilization of available features, capabilities and new enhancements.

Phase I: System requirement Study document and re-estimation

Phase II: Collect PSD from client and prepared HTML creation for the portal

Phase III: Application setup & Development

Phase IV: Integration with Kendo UI

Phase V: Testing

Phase VI: Go Live

Technology

Development Environment

Technology	Specifications
Technology & Framework	Symfony Framework
Languages	PHP 5.3.2
Database	MySQL 5.5.24
Web Server/Hosting Platform	Apache
Operating System (Development)	Windows
UI Tool	KENDO UI

Deployment Environment

Technology	Specifications
Technology & Framework	Symfony Framework
Database	MySQL 5.5.24
Web Server/Hosting Platform	Apache
Languages	PHP 5.3.2
Operating System	Linux

Duration

1. Project Life Cycle: 18 months

Key Challenges

a) Main Challenge

Client didn't provide their database access to store and retrieve data

Solution

We have connected existing database at client's place with development environment OpenVPN and Remote MYSQL

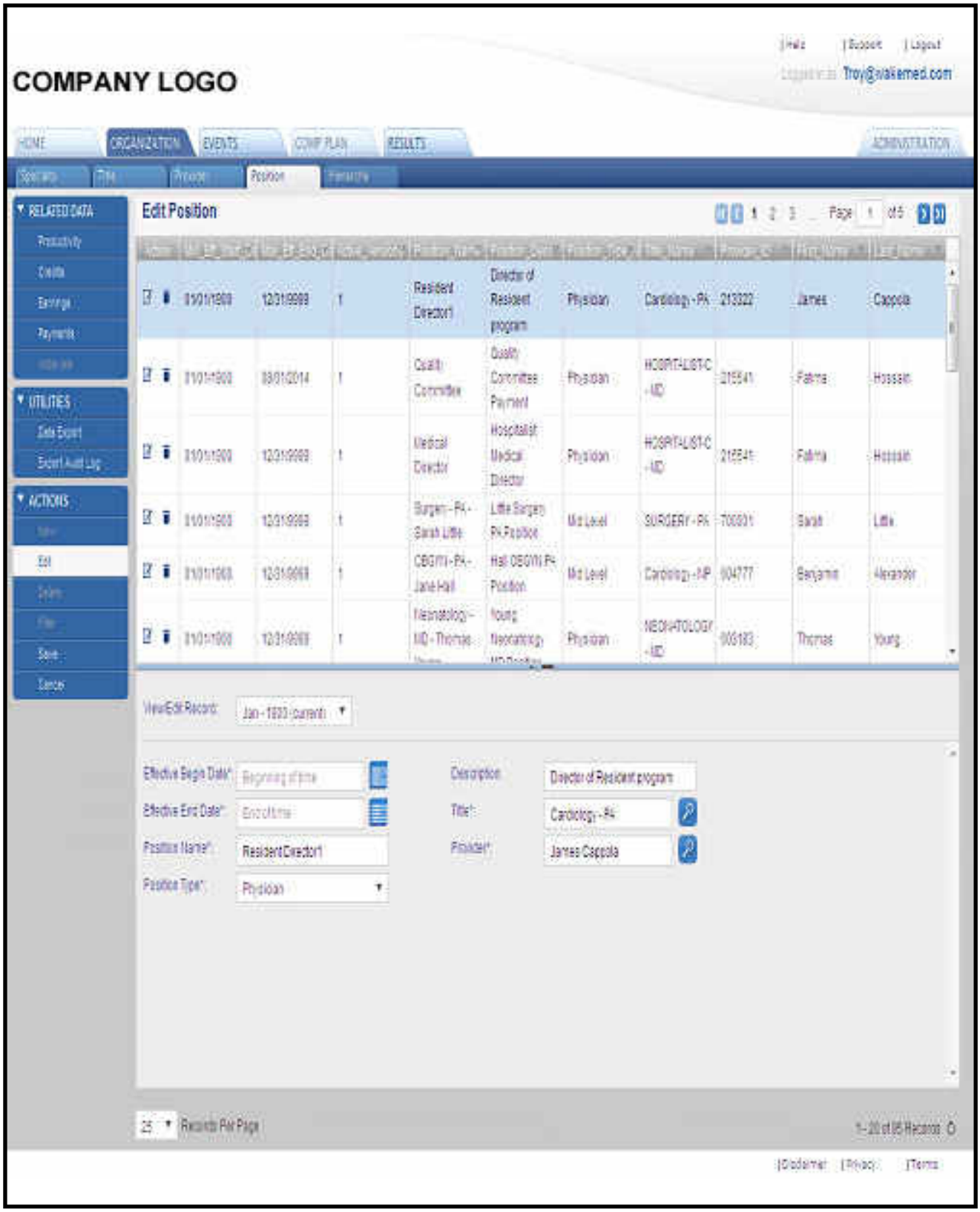
b) Other Challenges

1. Database level execution using XML response to stored procedure and vice versa
2. To parse XML output from stored procedure and display it in Kendo Grid

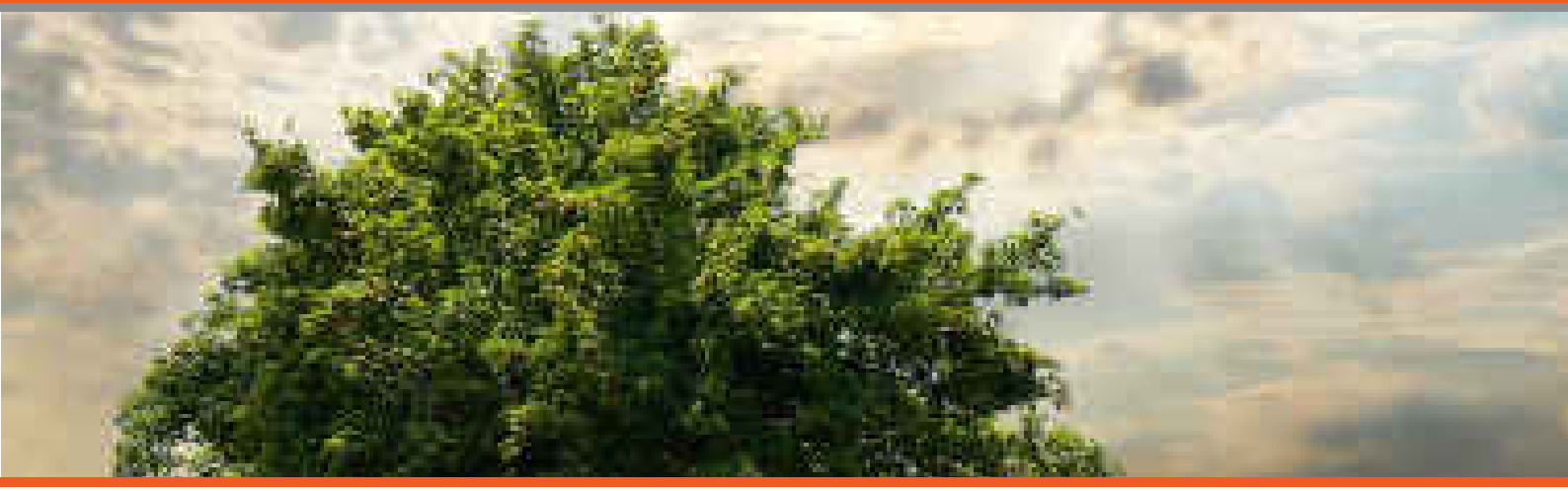
Results Achieved

1. Basic operation can be done dynamically for backend data management
2. Using openVPN and Remote MYSQL admin is able to connect with the database and manage data
3. Export data for quick and easy operations
4. Admin is now able to add / update / edit / delete information from any place with access of database server
5. Backend is compatible with mobiles and tablets
6. Secured login process to access backend data
7. Column pick up functionality to search doctors' information

Screenshots



COMPANY LOGO
Credits
Drag a column header and drop it here to group by that column



Deliver best products, software solutions and services, on time with quality, and as per customer expectations

About SilverTouch

SilverTouch, a company established in 1992 is widely accepted for its IT solutions with a huge customer base in more than 20 countries across the world.

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.

SilverTouch has alliance with several industry leaders such as Microsoft, Apple, Cisco, IBM, Oracle, SAP, Java, Dell, VM ware, Symantec, Sonic Wall which provides a competitive edge over other industry peers and targets to understand and cater to all types of requirements that concern our clients, thereby, leading to serve them precisely to their satisfaction.

For more information, please visit www.silvertouch.com or email info@silvertouch.com

SILVER TOUCH®
CMMi Level 5 RATED

India Headquarter
SilverTouch Technologies Limited
2nd Floor, Saffron,
Nr. Panchwati Circle,
Ahmedabad-380 006.
Phone : +91 - 79 - 2656 31 58
E-mail : info@silvertouch.com
Web : www.silvertouch.com

United Kingdom
SilverTouch Technologies UK Limited
Essex Technology & Innovation Centre,
Unit 7, The Gables,Ongar - CM5 0GA,
United Kingdom
Phone : +44 - (0) 127-736-4689
E-mail : info@silvertouchtech.co.uk
Web : www.silvertouchtech.co.uk

North America
SilverTouch Technologies INC
497 Route 27,
Iselin, NJ 08830
United States
Phone : +1 201 299 3529
E-mail : info@semaphore-software.com
Web : www.semaphore-software.com

© copyright 1992-2014 all rights reserved. Property of SilverTouch Technologies Ltd.

INDIA • UK • USA • NETHERLANDS • AUSTRALIA • FRANCE • GERMANY

This statement of work is proprietary of SilverTouch Technologies Ltd. and contains trade secrets and confidential information which is solely the property of SilverTouch Technologies Ltd. This statement of work is intended for internal use only. Therefore, it shall not be used, reproduced, copied, disclosed and transmitted, in whole or in part, without the express consent of SilverTouch Technologies Ltd.