



## Application Development Case Study

**Title:** License Key Generator  
**Domain:** Medical Services  
**Client:** Major Medical Imaging Services Provider  
**Location:** Northville, MI

## **Project Description**

The scope of the project is to develop a secure web based application that permits user login, documentation of end user information and ability to generate license files to activate various software products.

## **Environment**

Java, Spring, Hibernate, Struts, JBoss, SQL Server 2008, AJAX, JQuery

## **Tools**

Case Studio, Eclipse, BIDS

## **Other Tools/ Languages**

SQL, Java Script, CSS

## **Subject Area**

License Key Generation

## **CLIENT: Major Medical Imaging Services Provider**

### **PROJECT DETAILS:**

The overall objective of this project is to develop a secure web based application that permits user login, documentation of end user information and ability to generate license keys.

The key generator is a web based application that permits our client and its software distributors to login to a secure web page and generate license files to activate various software products offered by our client.

Reliable Software has designed, developed and implemented a solution that consisted of the following main features and processes:

The whole application has three major areas of design as listed below

- **Site Information interface:**

1. Register end user facility and contact information.
2. Search different institutions and select the appropriate site for registration and key generation.

- **Key Generation Interface:**

1. Generate a product license file for a specific end user site
2. Send license key generated to the specified email
3. Add more KEYS
4. Add New Site Information

- **Administrative Interface**

1. Manage Users
2. Manage Vendors
3. Search database
4. Export Functionality
5. Manage
  - Products
  - Product Versions
  - Required Features

The procedure that has been developed to generate license keys is by utilizing API calls to Licensing library (DLL files) provided by the client. In addition this project will also have a role based privilege feature for both the end users and administrators.

## BENEFITS OF THE PROJECT

Prior to the implementation of this project the process of generating license keys was a manual process and the primary benefit of the project was to relieve the client from the time-consuming tasks of managing the license key generation to its software distributors. It also provided the client with the ability to manage the software compliances and distribution of license keys for new releases and different products. As with many automation efforts, the inherent benefits are eliminating error-prone manual intervention and improving the speed with which tasks can be completed. The benefits were realized immediately.

## PROJECT TIMELINES & MILESTONES

| Sr. No | Project Phase                         | Phase Period (Working Days) |
|--------|---------------------------------------|-----------------------------|
| 1      | Requirements gathering                | 10                          |
| 2      | Analysis for Technical Specifications | 15                          |
| 3      | Development                           | 45                          |
| 4      | User Training                         | 5                           |
| 5      | User Documentation                    | 5                           |
| 6      | Acceptance Testing                    | 20                          |
| 7      | Warranty Support                      | 45                          |
|        | Total (excluding warranty Support)    | <b>100</b>                  |

## PROJECT METRICS

**Total team strength - 4**

**End User base - 2000**

This project was completely executed at our off-site facility in Northville, MI from start to finish and our client was able to leverage our cost effective model for this project.

Our off-site model is an attractive alternative for our clients looking for more cost-effective solutions without compromising quality. Our off-site delivery program is unique with below highlights.

### Offsite Delivery Model Highlights:

- Priced at approximately 50% of equivalent onsite services.
- Highly qualified certified consultants.
- Excellent communication and project control - Same country and same time zone.
- Flexible scalable model - the capability of scaling projects on demand for any duration.
- Flexing to your methodology - adapting to clients way of doing business and managing projects, instead of making you fit a standard methodology or process.

## About Reliable Software Resources, Inc.

Reliable Software Resources Inc. is a leading provider of information technology consulting and provides high-value, industry-specific IT solutions and is a pure-play IT project implementation and system Integration Company with cost effective delivery model for its clients. Our project delivery solution emphasizes local accountability and a flexible mix of global resources. The result is more-practical and actionable recommendations and the right-sized services that tightly align to your needs. Reliable Software's services are offered on a project- or strategic-staffing basis, across all technology platforms, operating systems and infrastructures. Reliable Software Resources Inc., Consulting practice has national foot print in United States and has been recognized as one of the fastest growing companies by Inc. Visit us online at [www.rsrit.com](http://www.rsrit.com) or follow us on Linked In, Facebook & Twitter.



**World Headquarters**  
22260 Haggerty Rd  
Northville, MI 48168 USA



Phone : +1 248 477 3555  
Fax : +1 248 715 6434  
Email : [info@rsrit.com](mailto:info@rsrit.com)

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