

## Customer Profile

*Prescient Software,  
Inc.*

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*Prescient Software  
designs and markets  
MergeRight, a merging  
productivity tool.*

## Our Solution

*MergeRight is a stand-  
alone application  
developed using JDK 1.2.  
Swing API is extensively  
used to create GUI for the  
application.*

*MergeRight 2000  
supports editing and  
merging HTML and RTF  
formats. ESN used Editor  
components in Swing API  
for supporting RTF and  
HTML formats. ESN  
devised several  
workarounds to meet  
specific requirements of  
MergeRight such as  
displaying part of a HTML  
or RTF file in an editor  
pane.*

## Methodology

*ESN has a well-defined  
Software Development  
Life Cycle (SDLC) model  
that takes an iterative  
approach in executing a  
project. Each build or  
milestone would have  
incremental functionality.*

## Introduction

MergeRight 2000 is an upgrade version to MergeRight Classic. It is a platform-independent application that helps in merging source code and text. Files containing changes are compared against one another and with a common ancestor file.

## Situation

Merging different revisions of code itself causes hard to find bugs. MergeRight can be used to compare files for instance to identify changed code in program files. It has an intuitive interface that displays changes in a convenient fashion so that the programmer can easily select different portions of text from the revisions for merging.

## MergeRight Features

- Implements an algorithm developed by Webb Miller and Eugene Myers
- Built-in Editor – Apart from viewing differences and selecting blocks of text in files being merged, text can also be modified on the fly.
- Easy to Learn interface
- MergeRight can compare two files with an ancestor file. Often a file may be revised more than once, but the original version some times helps in resolving changes between two revisions.
- Changes are displayed adjacent. This reduces time in identifying changes.

## Other Features

- Support for comparing, editing and merging files in RTF and HTML formats.
- Automatic change identification
- Saving changes to a merge file
- Undo
- Recommended Solutions for merging

## Tools and Technologies

Analysis and Design: Rational Rose 98

Development tools: Visual Cafe

GUI: Swing API

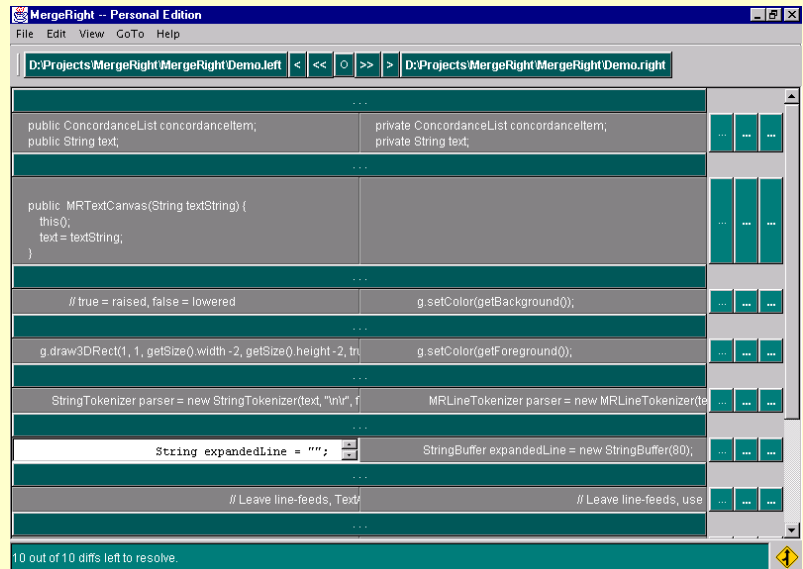
## Our Process

- Thorough study of requirements was carried out leading to the preparation of Software Requirements Specification (SRS) and User Interface Design (UID).
- High Level and Detailed Design documents of the system are created using UML as the modeling language

## Benefits

*MergeRight 2000 contains significant improvements over MergeRight Classic in areas such as GUI, application flow and support for additional file formats. Prescient Software has saved significant development costs in addition to other savings in terms of maintaining it.*

- language.
- Incremental and frequent Builds are sent to the client according to the Project Schedule. This helps obtain regular feedback from the client for each module.
- Coding and UI standards are strictly adhered to. Regular code reviews and walkthroughs are carried out by the Quality Analyst and senior members of the team.
- Unit, Integration and System testing are carried out by using test plans and test scripts.



## Conclusion

We were instrumental in enhancing the MergeRight Classic and helping the client come up with an enhanced and improved version saving both time and cost.