



# MIGRATING AN IDENTITY RESOLUTION SOFTWARE TO OPEN SOURCE

## CLIENT OVERVIEW

Our client is a leading developer and provider of identity resolution (entity analytics) software for government and commercial markets. Our client has sustained impressive growth rates by providing powerful software that can resolve fraudulent identities and non-obvious relationships across disparate data sources. The software is used as the anti-fraud solution for the Department of Homeland Security Transportation Security Administration (TSA) program. The identity resolution software is ideal for carrying out various types of security checking/fraud detection across industries like banking. Our client's technology is used to uncover risk, fraud, and conflicts of interest and is also a useful tool within Business Intelligence (BI) and Master Data Management (MDM) applications.

## KEY REQUIREMENTS

- Replication of the two user interfaces of the solution namely for management and desktop
- Management application is the administrative interface in which the search criteria fed are reflected in the Desktop application to search and resolve an identity of any person
- Desktop application being the main interface is used to find or track the information of any given individual or entity. Interface functions which needed to be replicated includes:
  - Start: access the Start menu options
  - Search: to conduct similarity searches of people based on the given search type from the target databases
  - Discover: to perform relationship resolution by uncovering relationships between the discover criteria and target data.
  - Cases: to manage cases by collecting and displaying complete summary of the cases resolved along with description
  - Favourites: to manage favourites list which have been selected
- Provide an editable Vertical Industry Specific Search Engine UI for the administration which feeds the criteria based on which the search is carried out.
- Allow the user to export search results to any of the following file formats:
  - CSV
  - Excel
  - Tab Delimited
  - XML
- Ensure that the user interface and user experience is as similar and seamless as the original one with code reusability to ensure robustness and scalability

## KEY CONTRIBUTIONS

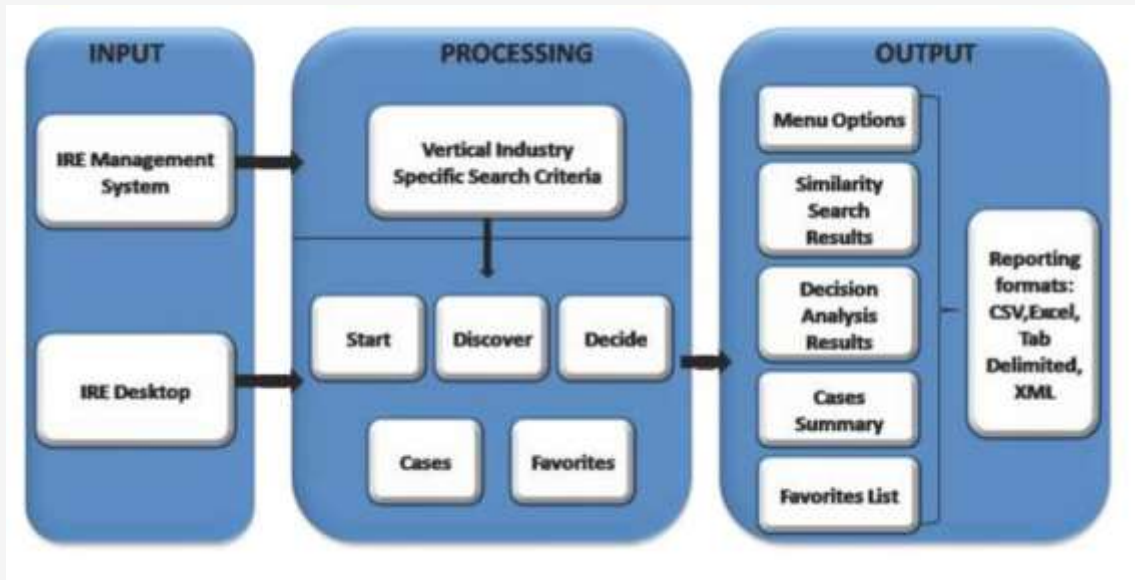
- Created a reusable framework using modular pattern which is more configurable and maintainable.
- Created a replica of EXTJS desktop in JQuery with all of the required functions like search, discover, decide, cases, favourites.
- Developed a replica of EXTJS IMS in JQuery which enables administrating the search criteria in desktop application for resolving an identity as per the vertical Industry.
- Found the relevant plug-ins and over-ridden the functionalities as per the requirements, as there were varying levels of compatibility and licensing among the available plug-ins in JQuery.

## KEY BENEFITS

- Solved client's cost issues from the original web, within aggressive timelines
- Enabled export functionalities to various file formats

- Developed an editable module on IMS which provides customization for the UI wherein the user can change various settings without having to change the actual code.
- Created XML editor and formatter for IMS UI for editing the input criteria which is reflected in ID.
- Integrated REST APIs with UI using AJAX for authentication and retrieval of data in various views for ID as well as IMS along with export functionalities to various file formats i.e. CSV, Excel, Tab Delimited, XML

## HIGH LEVEL ARCHITECTURE



## TECHNOLOGY STACK

- JQuery 1.7.2
- JBoss
- MySQL 5
- Ajax
- Apache ANT
- Tortoise SVN
- Bugzilla
- Netbeans IDE
- OS: Windows



### About Xoriant:

Xoriant Corporation is a Product Development, Engineering and Consulting Services Company, serving technology startups as well as mid-size to large corporations. We offer a flexible blend of onsite, offsite and offshore services from our eight global delivery centers with over 2000 software professionals. Xoriant has deep client relationships spanning over 25 years with various clients ranging from startups to Fortune 100 companies.