



## Providing solutions to a leading software company by creating an automated software

### Industry:

Enterprise

### The Client:

Our client is a leading provider of Silicon Design and Embedded Systems, having an expertise in Software services. Their knowledge domain extends from silicon design and verification, high-speed board design to embedded firmware and application software development. The company's India and US design centers, have delivered system level solutions to a variety of customers.

### Business Objective:

This product was developed for managing a payroll system as well as for tax and investment planning. Objective of this system was to automate the information flow between HR and Account departments. It facilitates accounts department to manage employee's payroll. TIPS (Tax & Investment Planning System) help employees to manage their Investment declarations online.

### Solution:

To cut down on the paper work, the payroll system helps the accounts department in managing salary and tax for employees. It computes the employee's attendance by providing integration with existing HRMS system, based on which salary is calculated. Also TIPS provides an interface to the payroll system in order to help employees entering investment declarations which would be directly incorporated in payroll system. System was implemented on MVC architecture using Struts framework with Tiles template. Report generation was in PDF using iText and Excel using POI & JExcel API. To provide security in the system, all the financial data was encrypted using 128 bit encryption in the database.

### Challenge:

Earlier client was managing payroll of an employee manually, which lead to a lot of paper work and manual computations. By developing this automated system, we solved problems like rucial paperwork, manual salary/bonus/tax calculation, and report maintenance for each financial year.

The biggest challenge of the system was to manage taxation rules every year with minimal efforts. To solve this problem, all the tax rules were maintained in the form of formulas in database, based on financial year.

### Technology:

- iText
- Excel
- POI & JExcel API

### Benefits:

- **Automated** salary & tax calculation.
- Huge amount of paperwork avoided by selecting **salary options** and **managing investment** declarations online by employees using TIPS.
- **Financial Reports**, Form 16/Form 12BA/Salary Certificate/ETDS reports.
- **Online** Salary Slips.

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Technologies

# Case Study

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