Resume Management System (RMS)

-Utkarsh Ashok Pathrabe 2012A7PS034P

Purpose

- To give an overview of Resume Management System.
- ► My Work:
 - ▶ Technical Database Documentation.
 - ▶ Designing User Interface (Website Development).
 - Software Unit Testing.
 - Excel Spreadsheet Parsing And Word Document Parsing.
 - ► Learning Server-Side Architecture of Web Application.

RMS Overview:

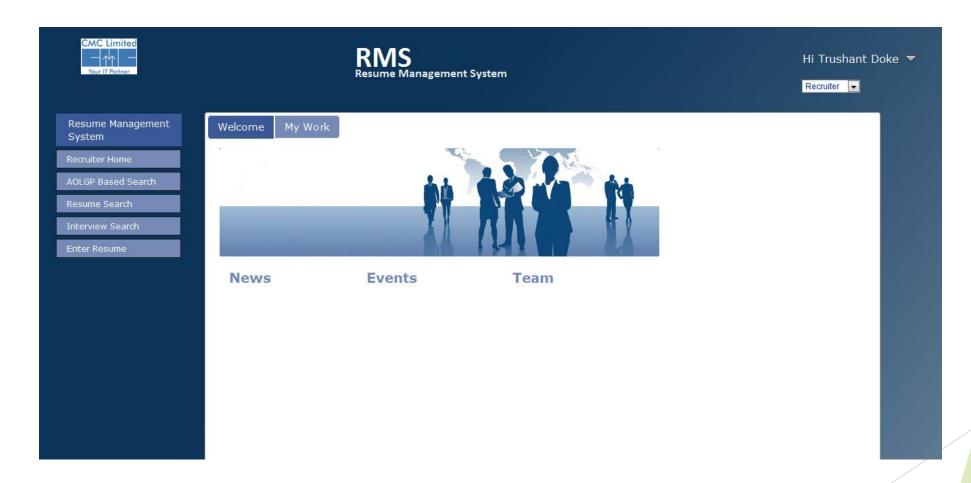
Resume Management Module aims to digitize below manual recruitment processes in CMC.

- 1. To collect resumes from CMC Vendors, CMC Recruiters.
- 2. To search matching AOLGP request for a candidates profile.
- 3. To search matching candidates for an AOLGP request.
- 4. To link candidate to matching AOLGP request.
- 5. To schedule candidate interviews for linked AOLGP request's and shortlist candidates.
- 6. To send shortlisted candidates to E-Offer generation.

What RMS does?

- RMS can collect resumes from all CMC vendors.
- RMS can collect resumes from all CMC HR's (recruiters).
- Using RMS, CMC HR's can search for AOLGP requests matching with skills of the received resumes and vice versa.
- ▶ Using RMS, CMC HR's can schedule several rounds of interviews for received resumes and mark the candidates pass/fail.
- ► Final shortlisted candidates in RMS will automatically flow to E-Offer for offer generation.

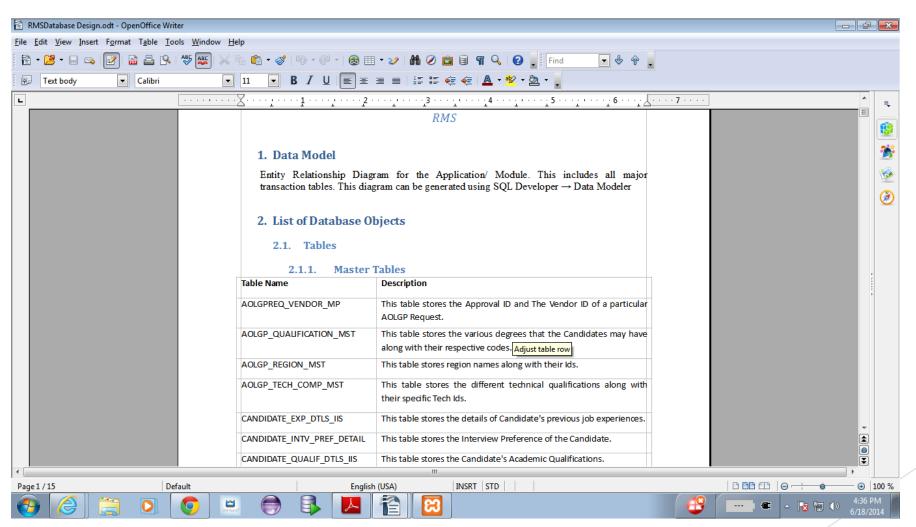
RMS Home Page



Technical Database Documentation

- In today's world, some 80% of production databases don't have sufficient documentation, which creates lot of problems for different peoples.
- Database Documentation is important, because:
 - Provides a common language between business decision makers and IT personnel.
 - Provides a shortcut to finding 'hot-spots'.
 - Facilitates a 'no-panic' rule.
 - Makes maintenance easier, and reduces risk when extending or upgrading a system.
 - Reduces training costs, by acting as a mediator between newcomers and existing staff.
 - Improves productivity of both newcomers and seasoned employees, reducing the likelihood of costly misunderstandings by providing a glossary of commonly used terms, naming conventions, and even commonly-used strategy patterns.

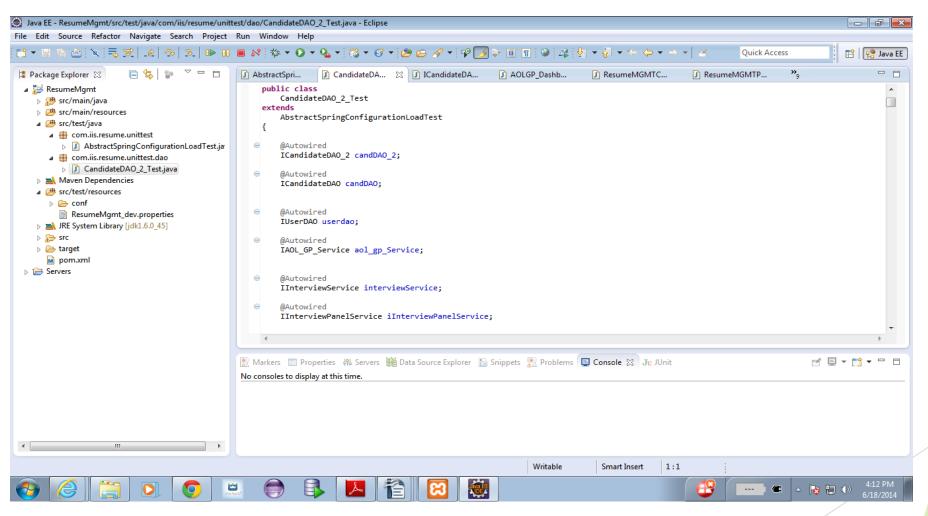
Screenshot of Database Documentation



Software Unit Testing

- Tested some of the modules of the RMS software using JUnit.
- ▶ JUnit is a unit testing framework for the Java programming language.
- ▶ JUnit has been important in the development of test-driven development, and is one of a family of unit testing frameworks which is collectively known as xUnit that originated with SUnit.
- JUnit is a simple framework to write repeatable tests.
- ▶ It is an instance of the xUnit architecture for unit testing frameworks.

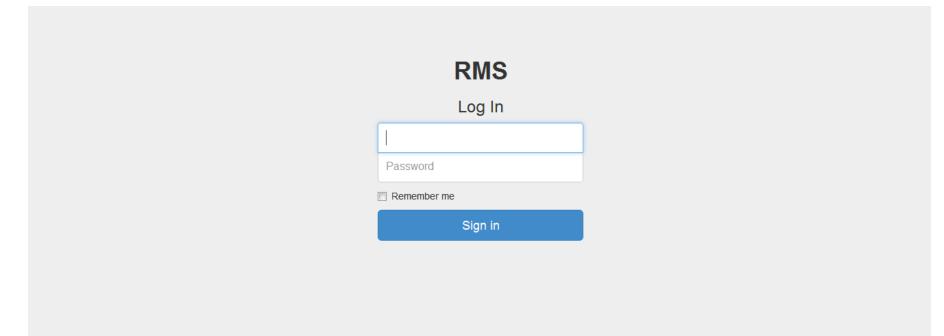
Screenshot of Java JUnit Code.



Designing User-Interface

- Created a User-Interface for RMS using:
 - ► XHTML
 - CSS
 - JavaScript
 - ► HTML5
 - Twitter Bootstrap

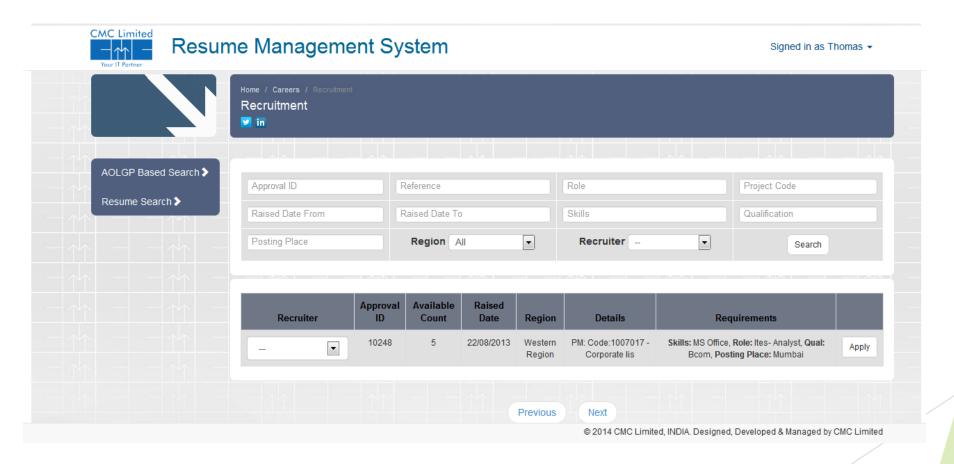
Screenshot of User-Interface (Log in of RMS.)



Screenshot of User-Interface (Home Page of RMS, after the user logs in.)



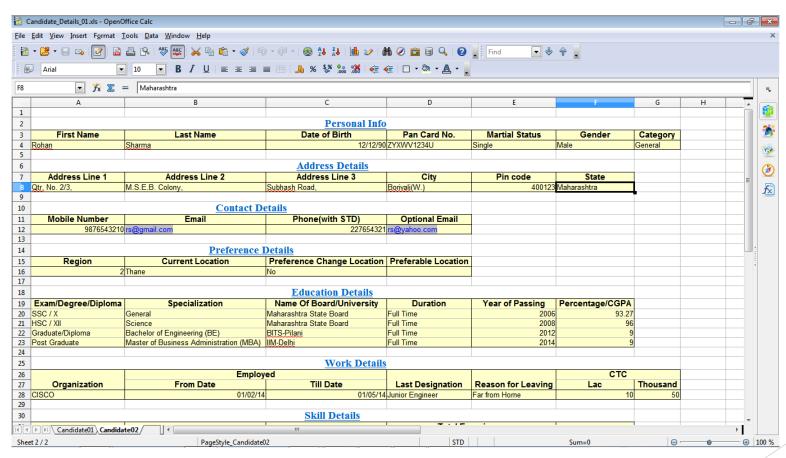
Screenshot of User-Interface (After the user presses AOLGP Based Search Button.)



Excel Spread Sheet and Word Document Parsing

- Designed an Excel Spread Sheet for taking Candidate Details from the vendors and HRs in an Excel Spreadsheet, as an alternative to directly feeding the candidate details using the UI of RMS, in case the database is not available for updating.
- ▶ Using the Candidates' data in the Excel Spread Sheet, I wrote a program in java that made Candidate Objects using the 'Apache POI' which is a software that provides pure Java libraries for reading and writing files in Microsoft Office formats, such as Word, PowerPoint and Excel.
- Using the data in Candidates' resume, which would be a word document. I wrote a program in java that made Candidate Objects using 'Apache POI' software.

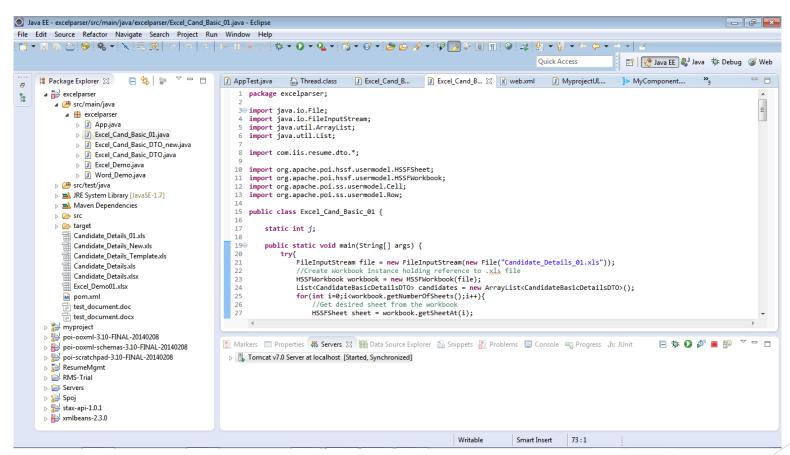
Screenshot of Candidate Details Excel Spreadsheet



Final Seminar: Utkarsh

15

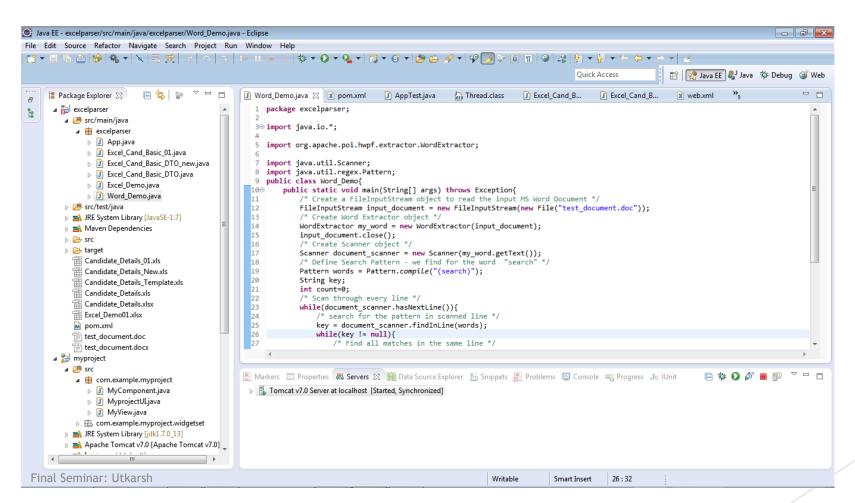
Screenshot of Excel Spread Sheet Parsing Java Code



Final Seminar: Utkarsh

16

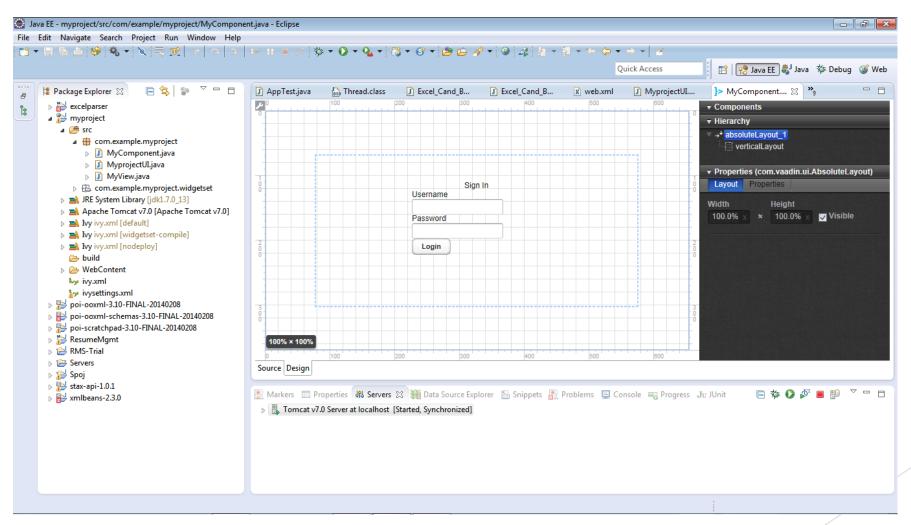
Screenshot of Word Document Parsing Java Code



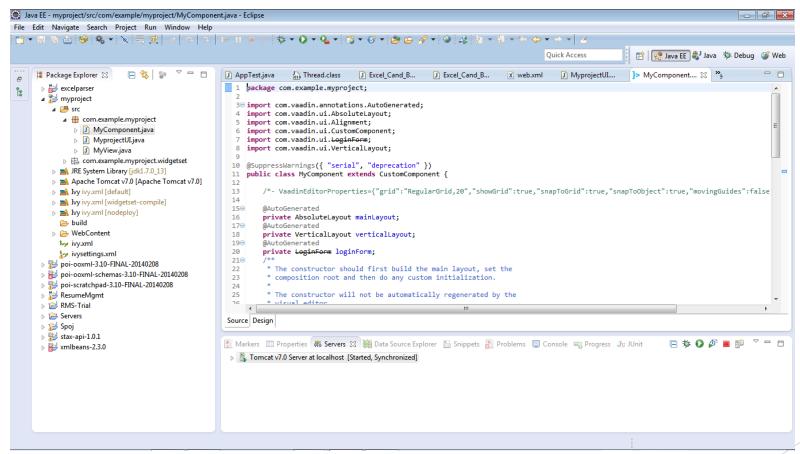
Server Side Architecture of Web Applications

- Studied the server side architecture of web applications using Vaadin.
- ▶ **Vaadin** is an open source Web application framework for rich Internet applications.
- In contrast to JavaScript libraries and browser-plugin based solutions, it features a server-side architecture, which means that the majority of the logic runs on the servers.
- ▶ Vaadin uses Java as the programming language for creating web content. The framework incorporates event-driven programming and widgets, which enables a programming model that is closer to GUI software development than traditional web development with HTML and JavaScript.

Screenshot of Vaadin UI Design in Eclipse IDE



Screenshot of Vaadin UI Source Code in Eclipse IDE



THANK YOU