REQUIREMENT SPECIFICATION

Project Code:	EVS-01
Project Name:	Electronic Voting System
Account:	
Vertical:	
Location:	ABC Development Center
Customer Name:	XYZ Automation Ltd.
Technical Manager/ Email ID:	
Project Manager / Email ID:	
Quality Co-ordinator / Email ID:	
Customer Contact Information:	

Revision History

Version (x.yy)	Date of Revision	Description of Change	Reason for Change	Affected Sections	Approved By
1.00	13-Aug-2011	Initial Draft			
2.10	Sept-2013	Revision	Mapping with CPC Tool		
2.20	Nov-2013	Revision	Aligning with UCF		

Affected Groups

Development Engineering
Quality Assurance
XYZ Automation Ltd.

List of Reference Documents

Name	Version No.
1. Request For Proposal	1.1
2.	
3.	
4.	

Prepared by/Date   **Reviewed by/Date**   **Approved by/Date**

Table of Contents

1   Introduction

XYZ Automation Ltd. focuses on automating various systems that have been working manually since years.

XYZ Automation Ltd. recently planned to develop "Electronic Voting System" - a standalone/Web application [Core Java Batches - Swing Application; J2EE Batches - Web Application] intended to be used by user for ordering of pizza items.

Scope and Overview:

The scope of the Electronic Voting System (EVS) will be to provide the functionality as described below. The system will be developed on a Windows operating system using Java/J2EE.

2   Functional Requirements

The users of the 'Electronic Voting System' are:
1. Administrator – Add/Edit/Delete/View Election and Candidate details.
2. Electoral Officer – Generates Voter ID.
3. Voter – Cast vote and view election results.

Below sections 2.1 & 2.2 indicates application specific requirements; section 2.3 to 2.4 indicates requirements which are specific to particular types of users.

Please note that, against each requirement priority levels are indicated, where P1 indicates higher priority and P2 is referred as lower priority.

2.1 Authentication & Authorization

All users must be able to perform login and change password.

Requirement ID	Description	Priority
AA-001	All users (Administrator, Electoral Officer & Voter) logging into the EVS application should be authenticated using a unique login-id and password (operations to be supported based on type of user)	P1
AA-002	All users should be able to change their password	P2

2.2 Exit handlers

All users must be able to successfully exit from the application.

Requirement ID	Description	Priority
EX-001	The application should handle logout (close all open database connections, invalidate sessions, etc)	P1

2.3 Administrator

Administrator must be able to perform the below mentioned functionalities.

Requirement ID	Description	Priority
AD-001	The admin should be able to add election details	P1
AD-002	The admin should be able to view only upcoming elections	P1
AD-003	The admin should be able to view all election details	P2
AD-004	The admin should be able to add party details	P2
AD-005	The admin should be able to view party details	P2
AD-006	The admin should be able to assign candidate against a particular election	P1
AD-007	The admin should be able to view candidate against particular election	P2
AD-008	The admin should be able to view pending voter's request for voter-id and	P1

	send approval to electoral officer	
AD-009	The admin should be able to view all candidates of a particular Party	P1
AD-010	The admin should be able to approve result before declaring	P1

2.4 Electoral Officer

Electoral officer must be able to perform the below mentioned functionalities.

Requirement ID	Description	Priority
EO-001	The electoral officer should be able to view voters requests from admin	P1
EO-002	The electoral officer should be able to generate/reject voter-id for users (voters)	P1

2.5 Voter

User must be able to perform the below functionalities.

Requirement ID	Description	Priority
US-001	The voter should be able to register to the 'Electronic Voting System'	P1
US-002	The voter should be able to request for voter-id	P1
US-003	The voter should be able to view his/her voter-id generated by electoral officer	P1
US-004	The voter should be able to view upcoming election schedules	P2
US-005	The voter should be able to view candidates based on election	P2
US-006	The voter should be able to cast the vote by using his/her voter-id	P1
US-007	The voter should be able to view election results	P2

3   Interface Requirements

The Electronic Voting System should be developed as a GUI application using Java Swings [Core Java Batches] or a Web Application using HTML/JSP screens with struts/spring framework [BC3 Batches - Spring Framework; Others - Struts Framework].

4   Non-functional Requirements

- The application should be intuitive to use and easy-to-maintain
- Designer/Programmer need to consider suitable conditions/constraints and assumptions[1]
- The application should be able to handle simultaneous requests from multiple clients
- Upon installation, the administrator and the electoral officer are expected to have default UserID and Password
- The system may force the administrator and the electoral officer to change their password to a non-default one, upon initial login

Target Environment:
- Intel hardware machine (PC P4-2.26 GHz, 512 MB RAM, 40 GB HDD)
- Windows Operating System
- Server – Apache Tomcat 6 or higher
- Database – Oracle 9i or higher
- JRE 1.6 or higher
- Eclipse IDE

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[1] RLL Facilitator need to clarify on assumptions if required beyond indicated in section 5

5 Assumptions/Dependencies/Limitations

- Each user will hold only one voter-ID and cast vote only once for a particular election.
- The Electoral Officer and Administrator are also users who can cast vote.
- Administrator and electoral officer Voter ID may be pre-defined.
- More than one candidate from a party can contest for a particular election.
- At least 2 candidates need to contest an election and total 10 votes has to be contested to announce the result.
- Only one election can be scheduled on a date.
- The number of constituencies is limited to 5.

6 Acceptance Criteria

The acceptance criteria will be defined in Acceptance Test Plan.

List of expected deliverables:
- Use Cases definitions document
- Test Case documents (with test results)
- Tested source code
- Tested unit test code
- File based IntStyle report

7 Requirements Priority Table

Explains the importance of Priority

Abbreviation	Remark
P1	First Priority (Priorities have been specified along with the requirements)
P2	Second Priority (Priorities have been specified along with the requirements)

8 Acronyms and Glossary

Acronym and glossary for this document mentioned in the below table.

Abbreviation	Remark
EVS	Electronic Voting System
GUI	Graphical User Interface