

System and Software Architecture Description (SSAD)

City of Los Angeles

Applicant Resource Center

Team 09

Team Members and Roles:

Vaibhav Mathur, Project Manager

Preethi Ramesh, Feasibility Analyst

Arijit Dey, Requirements Engineer

Shreyas Devraj, LCP

Gaurav Mathur, Builder

Divya Nalam, OCE

Rakesh Mathur, IIV&V

USC-CSSE

Version History

Date	Author	Version	Changes made	Rationale
10/12/2013	Divya, Gaurav	1.0	First version of the prototype report	To present the prototype structure as a part of 577 project

TABLE OF CONTENTS

System Context Diagram 5

Investigator Module 7

Manager Module 8

Reference USCD 9

Support Staff Module 10

Communication Diagram..... 11

TABLE OF FIGURES

Figure 1: System Context Diagram	5
Figure 2: Use Cases - Investigator	7
Figure 3: Use Case : Manager	8
Figure 4: Use Case : Reference	9
Figure 5: Use Case : Support Staff	10
Figure 6: Communication Diagram	11

System Context Diagram

Visual Paradigm for UML Standard Edition (University of Southern California)

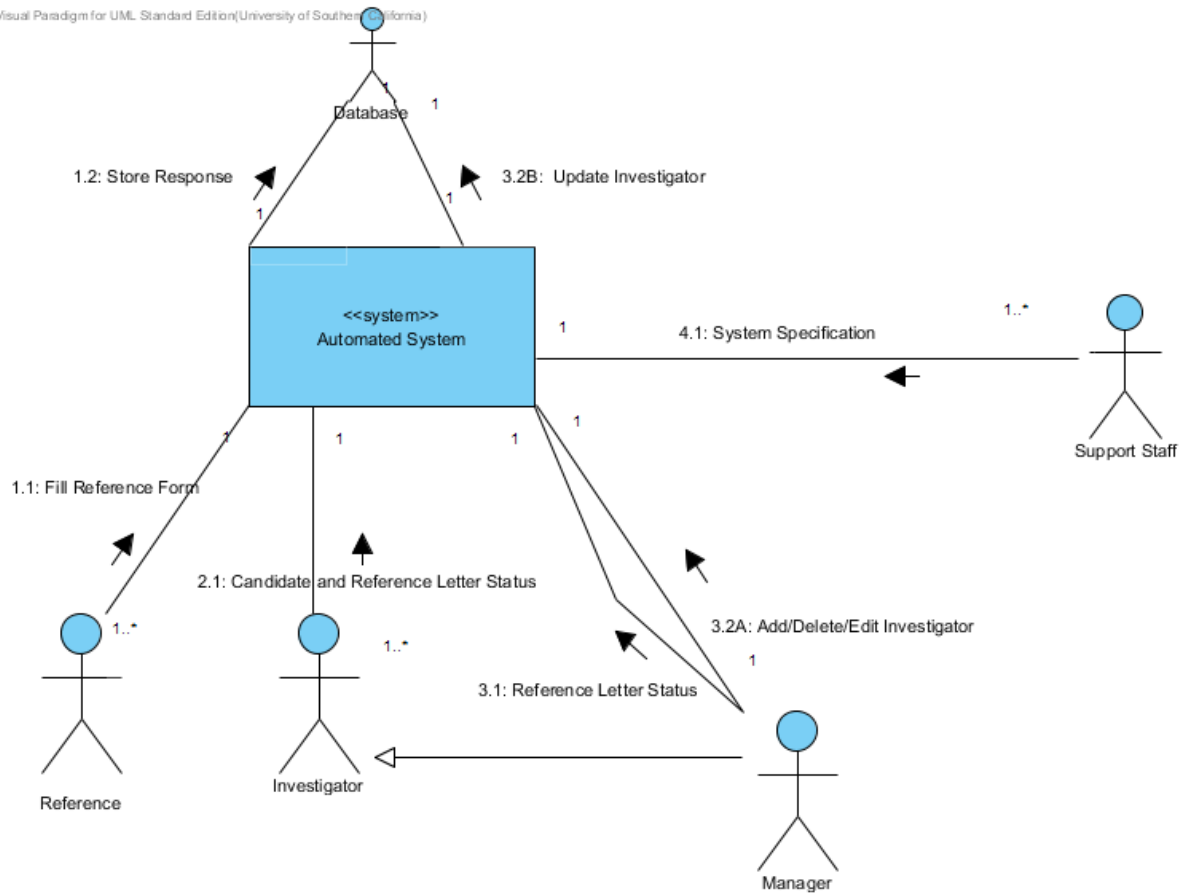














Figure 1: System Context Diagram

Details

 Automated System	The Automated System developed
 Reference	Reference of the candidate
 Fill Reference Form	Filling questionnaaire form by the reference
 Investigator	Background Investigation of the applicant
 Candidate and Reference Letter Status	Whether candidate's reference letters are send to the corresponding reference
 Manager	Manager of the City of LA
 Reference Letter Status	Status of the reference letter
 Add/Delete/Edit Investigator	Manager add/delete/edit investigator
 Database	Database of the system
 Store Response	Store data in the Database
 Support Staff	Maintain system at the City of LA
 System Specification	Support Staff maintains the specifications of the system

Use Case Diagram

Investigator Module

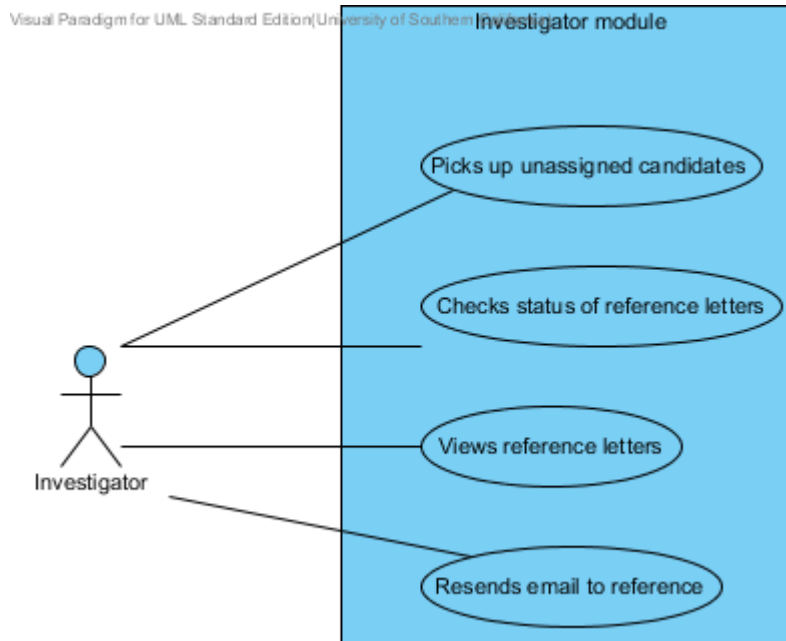








Figure 2: Use Cases - Investigator

Details

Name	Documentation
 Investigator	Background Investigation of the applicant
 Resends email to reference	Capable of resending emails to reference
 Views reference letters	Authorized to read the reference letters
 Checks status of reference letters	Whether reference letters are send to the corresponding reference
 Picks up unassigned candidates	Capable of choosing unassigned candidates for background investigation
 Investigator module	System for the investigator

Use Case Diagram

Manager Module

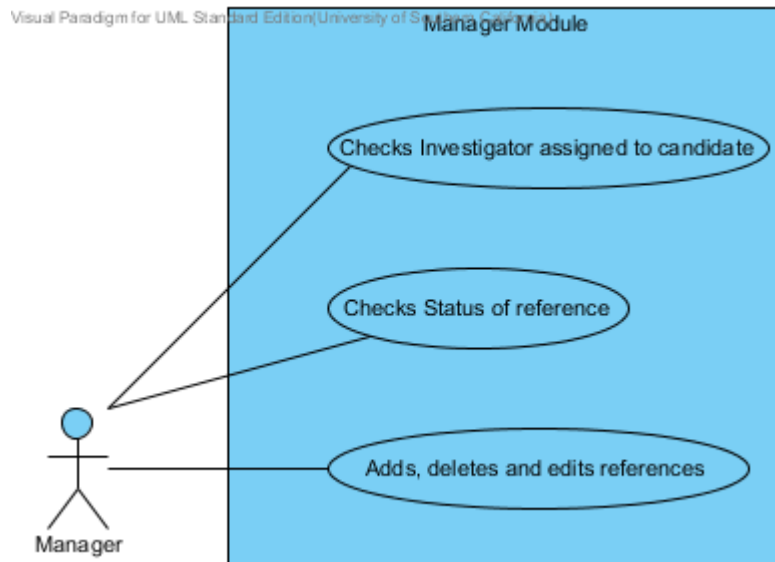







Figure 3: Use Case : Manager

Details

Name	Documentation
 Manager	Manager of the City of LA
 Adds, deletes and edits references	Authorized to add, delete and edit details of the reference
 Checks Status of reference	Capable of checking status of the reference
 Checks Investigator assigned to candidate	Capable of checking investigators assigned to candidates
 Manager Module	System for the Manager

Use Case Diagram

Reference USCD

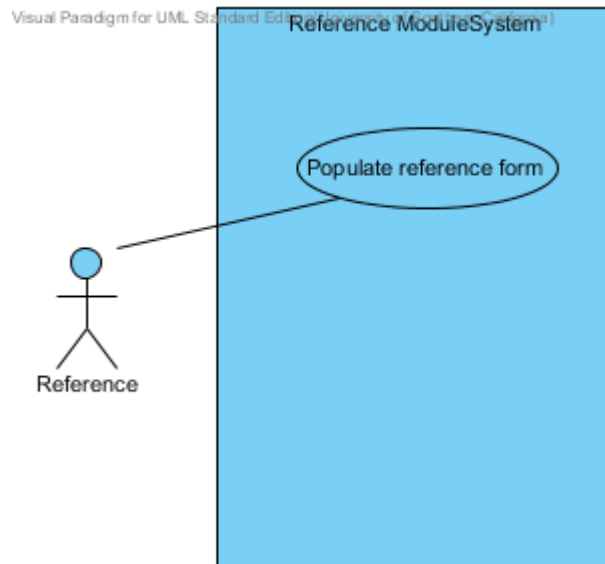





Figure 4: Use Case : Reference

Details

Name	Documentation
 Reference	Reference of the candidate
 Populate reference form	Fill in the reference questionnaire e form
 Reference Module System	System for the Reference

Use Case Diagram

Support Staff Module

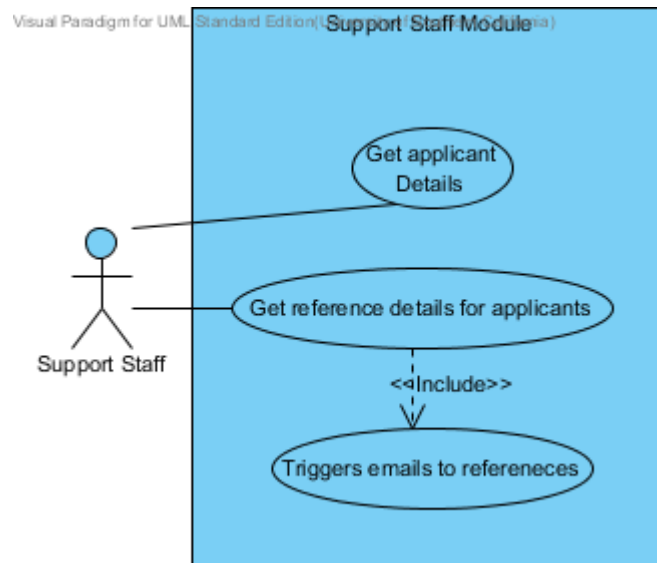







Figure 5: Use Case : Support Staff

Details

Name	Documentation
 Support Staff	Maintain system at the City of LA
 Triggers emails to references	Sends automated emails to the references for the respective candidates
 Get reference details for applicants	Receive details regarding the references of all candidate
 Get applicant Details	Receive questionnaire forms from the candidate
 Support Staff Module	System for the Supporting Staff

Communication Diagram

Communication Diagram

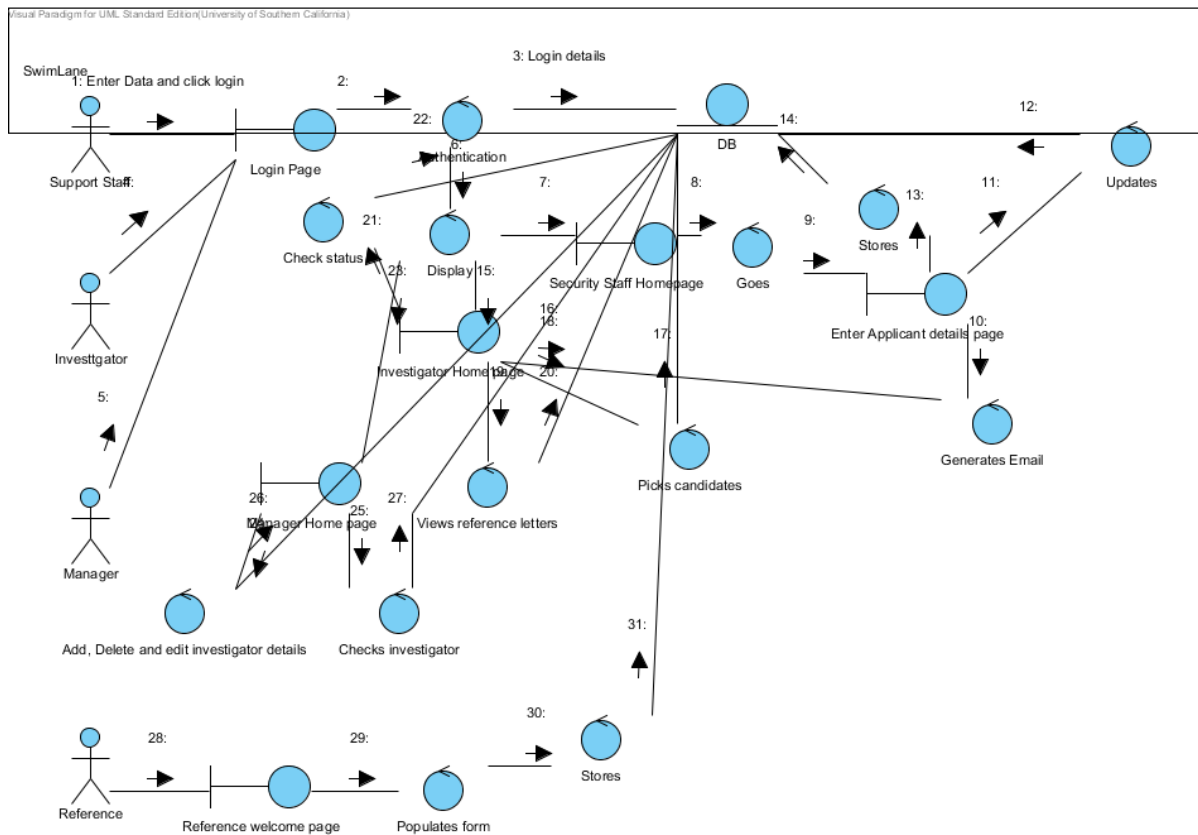






















Figure 6: Communication Diagram

Summary

Name	Documentation
Support Staff	Maintain system at the City of LA
Enter Data and click login	Enters the login details
Login Page	Login display screen
Authentication	Validation of the username and password
Login details	Username and password sent to DB
DB	Database

 Display	Screen displaying information to the user
 Security Staff Homepage	Secure homepage for support staff
 Goes	Redirect to another display screen
 Enter Applicant details page	Support Staff enters the details of the candidates
 Generates Email	Support Staff triggers automated email to be sent to the reference
 Updates	The data gets updated in database
 Stores	The data gets stored in database
 Investigator	Background verification of the candidate
 Investigator Home page	Homepage of the Investigator
 Picks candidates	Investigator chooses unassigned candidates for background investigation
 Views reference letters	Investigator views the reference letters of the candidates
 Check status	Check whether reference letters is filled by the reference
 Manager	Manager of the City of LA
 Manager Home page	Homepage of the Manager
 Add, Delete and edit investigator details	Manager add, delete and edit the details of the investigator
 Checks investigator	Manager checks the status of the investigator
 Reference	Reference of the candidate
 Reference welcome page	Homepage of the Reference
 Populates form	Reference fills out the questionnaire form
 Stores	The data gets stored in the database