System and Software Architecture Description (SSAD)

City of Los Angeles

Applicant Resource Center

Team 09

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Image16.png

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 | |

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# System Context Diagram

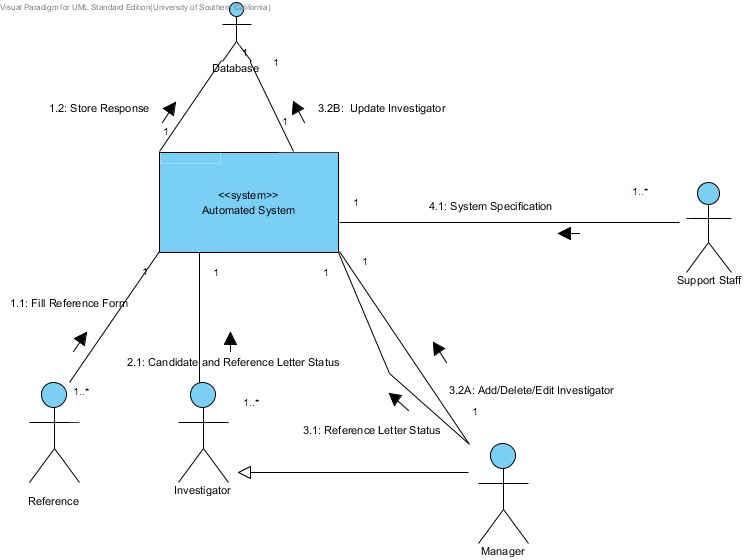


Figure 1: System Context Diagram

### **Details**

|  |  |
| --- | --- |
| [Automated System](#UJnBfYKAUeAk4Q.u) | The Automated System developed |
| Image1.png [Reference](#WtQhfYKAUeAk4Q.3) | Reference of the candidate |
| Image2.png [Fill Reference Form](#VU2VQ4KGAqAAZQYl) | Filling questionnaaire form by the reference |
| Image1.png [Investigator](#V3BYA4KAUeAk4QTq) | Background Investigation of the applicant |
| Image2.png [Candidate and Reference Letter Status](#vsY1Q4KGAqAAZQZP) | Whether candidate’s reference letters are send to the corresponding reference |
| Image1.png [Manager](#dQDJfYKAUeAk4RC5) | Manager of the City of LA |
| Image2.png [Reference Letter Status](#wZq1Q4KGAqAAZQZc) | Status of the reference letter |
| Image2.png [Add/Delete/Edit Investigator](#9b.1Q4KGAqAAZQZp) | Manager add/delete/edit investigator |
| [Database](#6m0UA4KAUeAk4QYs) | Database of the system |
| Image2.png [Store Response](#9iHVQ4KGAqAAZQY4) | Store data in the Database |
| Image1.png [Support Staff](#.KhpfYKAUeAk4RD3) | Maintain system at the City of LA |
| Image2.png [System Specification](#42YNQ4KGAqAAZQai) | Support Staff maintains the specifications of the system |

Use Case Diagram

# Investigator Module

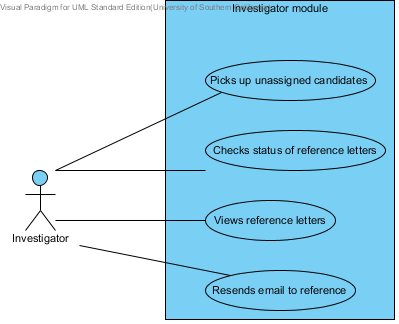


Figure 2: Use Cases - Investigator

## **Details**

|  |  |
| --- | --- |
| Name | Documentation |
| Image1.png [Investigator](#s9xqnYKGAqGwAQWU) | Background Investigation of the applicant |
| Image10.png [Resends email to reference](#cLzqnYKGAqGwAQXV) | Capable of resending emails to reference |
| Image10.png [Views reference letters](#oa9qnYKGAqGwAQXB) | Authorized to read the reference letters |
| Image10.png [Checks status of reference letters](#eDlqnYKGAqGwAQWv) | Whether reference letters are send to the corresponding reference |
| Image10.png [Picks up unassigned candidates](#J.ZqnYKGAqGwAQWd) | Capable of choosing unassigned candidates for background investigation |
| Image11.png [Investigator module](#Un7qnYKGAqGwAQXn) | System for the investigator |

Use Case Diagram

# Manager Module

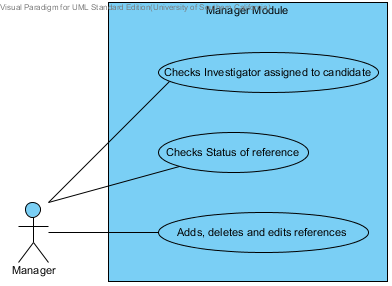


Figure 3: Use Case : Manager

## **Details**

|  |  |
| --- | --- |
| Name | Documentation |
| Image1.png [Manager](#CMcanYKGAqGwAQY4) | Manager of the City of LA |
| Image10.png [Adds, deletes and edits references](#7fGanYKGAqGwAQZn) | Authorized to add, delete and edit details of the reference |
| Image10.png [Checks Status of reference](#mqKanYKGAqGwAQZT) | Capable of checking status of the reference |
| Image10.png [Checks Investigator assigned to candidate](#Tm8anYKGAqGwAQZB) | Capable of checking investigators assigned to candidates |
| Image11.png [Manager Module](#HEeanYKGAqGwAQZ9) | System for the Manager |

Use Case Diagram

# Reference USCD

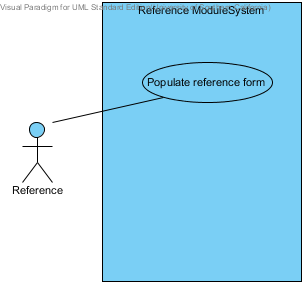


Figure 4: Use Case : Reference

## **Details**

|  |  |
| --- | --- |
| Name | Documentation |
| Image1.png [Reference](#qnYqnYKGAqGwAQVS) | Reference of the candidate |
| Image10.png [Populate reference form](#ZEkqnYKGAqGwAQVb) | Fill in the reference questionnaire e form |
| Image11.png [Reference Module System](#DriqnYKGAqGwAQV_) | System for the Reference |

Use Case Diagram

# Support Staff Module

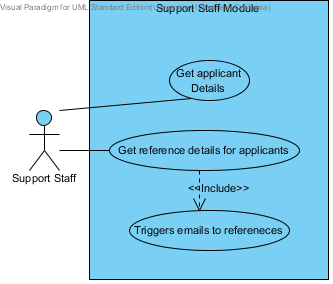


Figure 5: Use Case : Support Staff

## **Details**

|  |  |
| --- | --- |
| Name | Documentation |
| Image1.png [Support Staff](#rKYsnYKGAqGwAQNO) | Maintain system at the City of LA |
| Image10.png [Triggers emails to references](#PdOsnYKGAqGwAQOE) | Sends automated emails to the references for the respective candidates |
| Image10.png [Get reference details for applicants](#s0asnYKGAqGwAQNy) | Receive details regarding the references of all candidate |
| Image10.png [Get applicant Details](#wNSsnYKGAqGwAQNa) | Receive questionnaire forms from the candidate |
| Image11.png [Support Staff Module](#n6zKnYKGAqGwAQUV) | System for the Supporting Staff |

Communication Diagram

# Communication Diagram

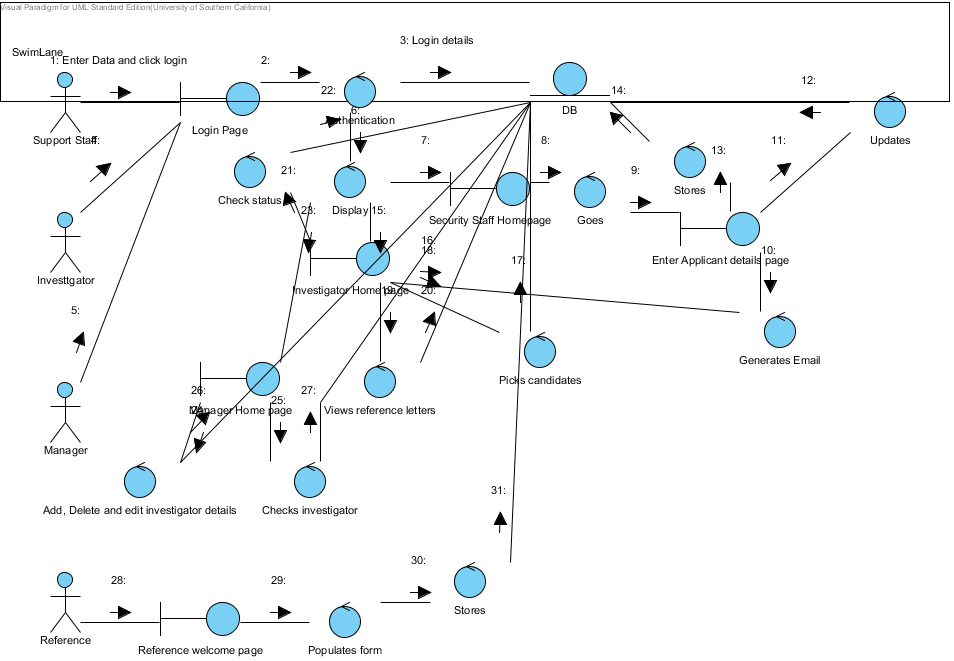


Figure 6: Communication Diagram

## **Summary**

|  |  |
| --- | --- |
| Name | Documentation |
| Image1.png [Support Staff](#1apOnYKGAqGwAQbB) | Maintain system at the City of LA |
| Image2.png [Enter Data and click login](#GPYenYKGAqGwAQe_) | Enters the login details |
| Image3.png [Login Page](#LcrOnYKGAqGwAQbO) | Login display screen |
| Image3.png [Authentication](#wzvOnYKGAqGwAQbY) | Validation of the username and password |
| Image2.png [Login details](#znL.nYKGAqGwAQg5) | Username and password sent to DB |
| Image3.png [DB](#hsD.nYKGAqGwAQgr) | Database |
| Image3.png [Display](#zFBhnYKGAqGwAQky) | Screen displaying information to the user |
| Image3.png [Security Staff Homepage](#h_bhnYKGAqGwAQl8) | Secure homepage for support staff |
| Image3.png [Goes](#63_hnYKGAqGwAQmY) | Redirect to another display screen |
| Image3.png [Enter Applicant details page](#ru0RnYKGAqGwAQnE) | Support Staff enters the details of the candidates |
| Image3.png [Generates Email](#jMWRnYKGAqGwAQn0) | Support Staff triggers automated email to be sent to the reference |
| Image3.png [Updates](#OShRnYKGAqGwAQoU) | The data gets updated in database |
| Image3.png [Stores](#0IPRnYKGAqGwAQqj) | The data gets stored in database |
| Image1.png [Investigator](#Gy0BnYKGAqGwAQhY) | Background verification of the candidate |
| Image3.png [Investigator Home page](#K31xnYKGAqGwAQsM) | Homepage of the Investigator |
| Image3.png [Picks candidates](#wK_xnYKGAqGwAQtI) | Investigator chooses unassigned candidates for background investigation |
| Image3.png [Views reference letters](#2QJJnYKGAqGwAQu1) | Investigator views the reference letters of the candidates |
| Image3.png [Check status](#kiApnYKGAqGwAQwo) | Check whether reference letters is filled by the reference |
| Image1.png [Manager](#SE8BnYKGAqGwAQhh) | Manager of the City of LA |
| Image3.png [Manager Home page](#THypnYKGAqGwAQx2) | Homepage of the Manager |
| Image3.png [Add, Delete and edit investigator details](#o0xpnYKGAqGwAQyl) | Manager add, delete and edit the details of the investigator |
| Image3.png [Checks investigator](#R9upnYKGAqGwAQya) | Manager checks the status of the investigator |
| Image1.png [Reference](#G1CBnYKGAqGwAQhq) | Reference of the candidate |
| Image3.png [Reference welcome page](#rCYZnYKGAqGwAQ0t) | Homepage of the Reference |
| Image3.png [Populates form](#qzUZnYKGAqGwAQ02) | Reference fills out the questionnaire form |
| Image3.png [Stores](#5CuZnYKGAqGwAQ1z) | The data gets stored in the database |