System and Software Architecture Description (SSAD)

JEP On-line Platform

Team 15

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Image26.png

USC-CSSE

Wei Yan

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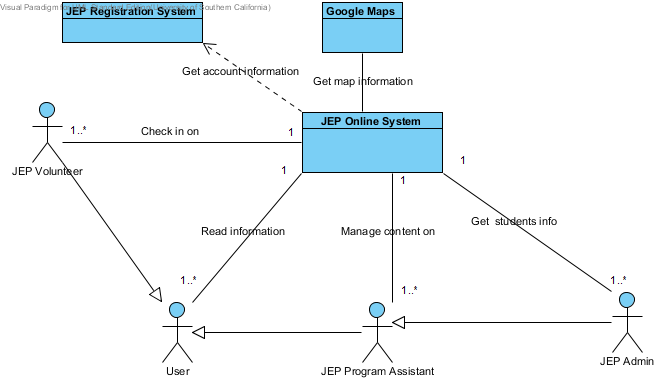
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# System Context Diagram



## Details

### Image1.png Google Maps

### Image1.png JEP Registration System

### Image2.png 1..\*

### Image3.png User

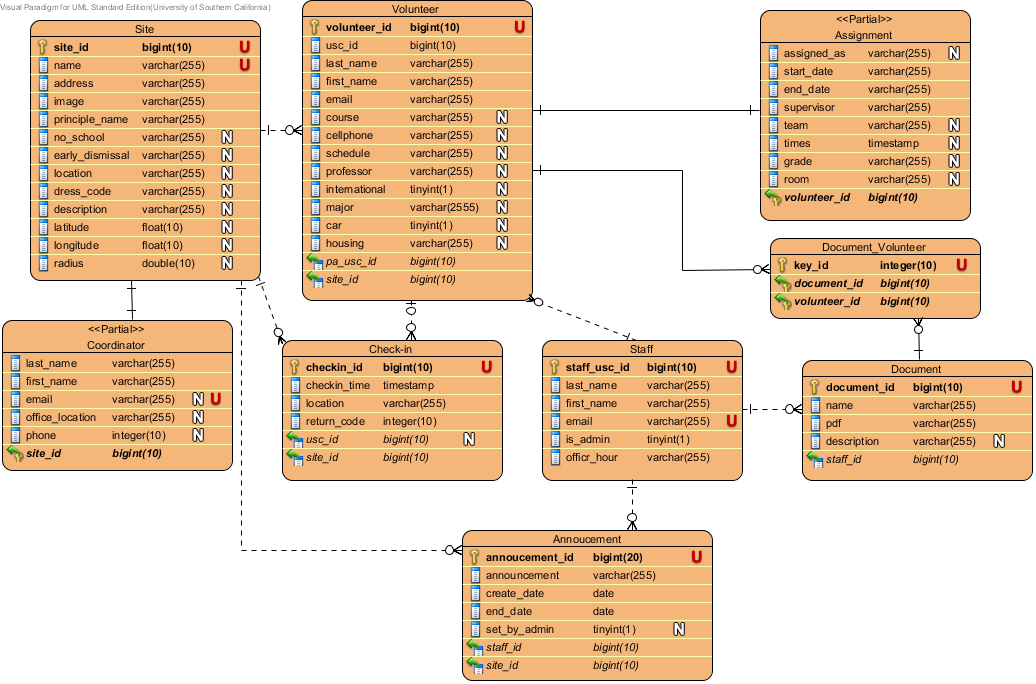
### Image3.png JEP Admin

### Image3.png JEP Program Assistant

### Image3.png JEP Volunteer

### Image1.png JEP Online System

# Artifacts and Information Diagram



## Details

### Image5.png Volunteer

### Image5.png Assignment

### Image5.png Site

### Image5.png Document\_Volunteer

### Image5.png Coordinator

### Image5.png Check-in

### Image5.png Staff

### Image5.png Document

### Image5.png Annoucement

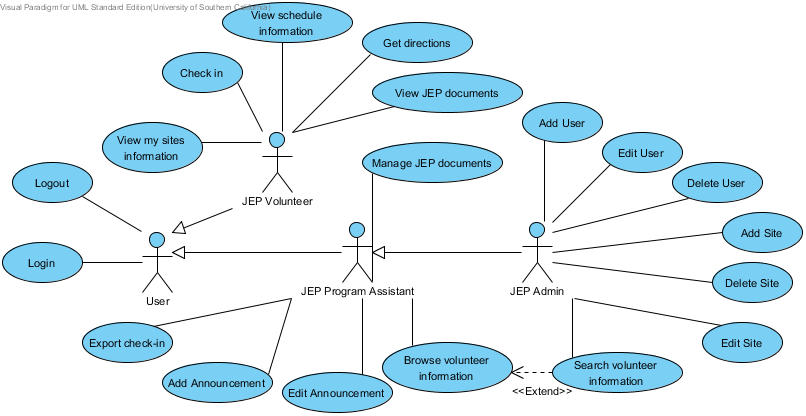
# Actors Grid

|  |  |  |
| --- | --- | --- |
| **ID** | **Name** | **Related Use Cases** |
| AC01 | JEP Program Assistant | Export check-in Add Announcement Edit Announcement Manage JEP documents Browse volunteer information |
| AC02 | JEP Volunteer | View JEP documents View my sites information View schedule information Get directions Check in |
| AC03 | JEP Admin | Delete Site Edit Site Search volunteer information Delete User Edit User Add Site Add User |
| AC04 | User | Logout Login |

# Use Cases Grid

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Primary Actors** | **Supporting Actors** |
| UC01 | Check in | JEP Volunteer |  |
| UC02 | View my sites information | JEP Volunteer |  |
| UC03 | Get directions | JEP Volunteer |  |
| UC04 | View JEP documents | JEP Volunteer |  |
| UC05 | View schedule information | JEP Volunteer |  |
| UC06 | Export check-in | JEP Program Assistant |  |
| UC07 | Browse volunteer information | JEP Program Assistant |  |
| UC08 | Manage JEP documents | JEP Program Assistant |  |
| UC09 | Add Announcement | JEP Program Assistant |  |
| UC10 | Edit Announcement | JEP Program Assistant |  |
| UC11 | Login | User |  |
| UC12 | Logout | User |  |
| UC13 | Search volunteer information | JEP Admin |  |
| UC14 | Add User | JEP Admin |  |
| UC15 | Edit User | JEP Admin |  |
| UC16 | Delete User | JEP Admin |  |
| UC17 | Add Site | JEP Admin |  |
| UC18 | Edit Site | JEP Admin |  |
| UC19 | Delete Site | JEP Admin |  |

# Process Diagram



## Details

### Image3.png User

### Image3.png JEP Volunteer

### Image3.png JEP Program Assistant

### Image3.png JEP Admin

### Image7.png Edit Announcement

#### Use Case Descriptions

|  |  |
| --- | --- |
| **Main** | |
| **Identifier** | UC10: Edit Announcement |
| **Purpose** | To edit the existed announcement from the platform |
| **Requirements** | WC\_2833: As a JEP staff(PA,Admin), I can edit the message that students will get when they checked\_in by setting the message start date, end date, and content. |
| **Development Risks** | None |
| **Preconditions** | The user has logged in as PA or Admin. |
| **Post-conditions** | The announcement has been updated successfully, or the announcement is deleted. |
| **Typical Course of Action** | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "Manage Announcement" link |  | | 2 |  | Display a page with the message list which contains current messages | | 3 | Select an existed Announcement and click "Edit" button |  | | 4 |  | Display a page with the saved announcement information. | | 5 | Revise the information for the announcement |  | | 6 | Click "Save" button |  | | 7 |  | Save the revised announcement into the database | | 8 |  | Display a window showing success | |
| **Alternative Course of Action (Delete Announcement)** | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "Manage Announcement" link |  | | 2 |  | Display a page with the announcement list which contains current messages | | 3 | Select an existed announcement and click "Delete" button |  | | 4 |  | Delete the announcement entry from database | | 5 |  | Display a window showing success | |

### Image7.png Delete User

#### Use Case Descriptions

|  |  |
| --- | --- |
| **Main** | |
| **Identifier** | UC16: Delete User |
| **Purpose** | To delete an existed user's role from JEP system |
| **Requirements** | WC\_2832: As an admin, I can delete users' (admin, and PA) roles in the system. |
| **Development Risks** | None |
| **Preconditions** | The user has logged into the system as JEP admin. |
| **Post-conditions** | The selected user's role has been successfully removed from the JEP system. |
| **Typical Course of Action** | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "Manage User" |  | | 2 |  | Redirect to a page for user management with the current users (admin, and PA) list | | 3 | Select a user and click delete icon |  | | 4 |  | Display confirmation message | | 5 | Confirm deletion |  | | 6 |  | Remove the selected user's role from database | | 7 |  | Display success message | |

### Image7.png Edit Site

#### Use Case Descriptions

|  |  |
| --- | --- |
| **Main** | |
| **Identifier** | UC18: Edit Site |
| **Purpose** | To edit the current site information. |
| **Requirements** | WC\_2824: As an admin, I can edit site information Name, Dress Code, No School, Early Dismissal, Image, Office Location, Office Location, Address, Principal Name, Coordinator's info (First Name, Last Name, e-mail, Office Location) |
| **Development Risks** | None |
| **Preconditions** | The user has logged into the system as JEP admin. |
| **Post-conditions** | The site information has been updated in the database. |
| **Typical Course of Action** | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "Sites" link |  | | 2 |  | Redirect to a page with the current sites list | | 3 | Choose a site and click edit |  | | 4 |  | Display a page with the specific site information form | | 5 | Edit the site information and click submit |  | | 6 |  | Update the site information in the database | | 7 |  | Display success message | |

### Image7.png Add Site

#### Use Case Descriptions

|  |  |
| --- | --- |
| **Main** | |
| **Identifier** | UC17: Add Site |
| **Purpose** | To add a new site into the JEP online system |
| **Requirements** | WC\_2823: As an admin, I can add site information including Name,Dress Code,No School,Early Dismissal,Image,Office Location,Office Location,Address,Principal Name,Coordinator's info(First Name,Last Name ,e-mail,Office Location) |
| **Development Risks** | None |
| **Preconditions** | The user has logged into the system as JEP admin. |
| **Post-conditions** | The new site has been added into the database, or nothing has been changed. |
| **Typical Course of Action** | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "Sites" link |  | | 2 |  | Redirect to a page with the current sites list | | 3 | Click "Add" button |  | | 4 |  | Open a new window with site information form | | 5 | Enter site name, address, picture and notes, then click create |  | | 6 |  | Check existing situation for the new site | | 7 |  | Display success message | |
| **Exceptional Course of Action (The site information doesn't follow the format)** | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "site" link |  | | 2 |  | Redirect to a page with the current site list | | 3 | Click "add new site" button |  | | 4 |  | Open a new window with site information form | | 5 | Enter site name, address, picture and notes, then click create |  | | 6 |  | show the error column with reason | |

### Image7.png Delete Site

#### Use Case Descriptions

|  |  |
| --- | --- |
| **Main** | |
| **Identifier** | UC19: Delete Site |
| **Purpose** | To delete an existing site from the JEP online system. |
| **Requirements** | WC\_2825: As an admin, I can delete a site. |
| **Development Risks** | May cause some students belongs to none site. |
| **Preconditions** | The user has logged into the system as JEP admin. |
| **Post-conditions** | The site has been deleted from database. |
| **Typical Course of Action** | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "site" link |  | | 2 |  | Redirect to a page with the site list | | 3 | Choose a site and click delete |  | | 4 |  | Remove the site item from database | | 5 |  | Display a success message | |

### Image7.png Add Announcement

#### Use Case Descriptions

|  |  |
| --- | --- |
| **Main** | |
| **Identifier** | UC09: Add Announcement |
| **Purpose** | To set announcement which students will get when they check in and login between the start date and finish date |
| **Requirements** | WC\_2789: As a JEP staff(PA,Admin), I can add the message that volunteers will get when they checked\_in |
| **Development Risks** | None |
| **Preconditions** | The user has logged in as PA or Admin. |
| **Post-conditions** | The announcement has been set successfully, or the announcement is invalid. |
| **Typical Course of Action** | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "Announcement" link |  | | 2 |  | Display a page with the announcement list which contains current announcements | | 3 | Click "Add New Announcement" |  | | 4 |  | Display a page with the sites list for the PA or admin (admin will see all the sites in the database) | | 5 | Select the sites and click "Add" |  | | 6 |  | Display a empty form for announcement | | 7 | Input the new announcement contend, its start date and finish date in the form |  | | 8 | Click "Submit" button |  | | 9 |  | Check time conflict situation | | 10 |  | Record the announcement into database | | 11 |  | Direct back to Announcement page | |
| **Exceptional Course of Action**  (Time Conflict) | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Input the new announcement contend, its start date and finish date in the form |  | | 2 | Click "Submit" button |  | | 3 |  | Check time conflict situation | | 4 |  | Display error alert about time conflict | |

### Image7.png Add User

#### Use Case Descriptions

|  |  |
| --- | --- |
| **Main** | |
| **Identifier** | UC14: Add User |
| **Purpose** | To add new users to the system and assign initial role |
| **Requirements** | WC\_2819: As an admin, I can add users (admin, and PA) to the system by adding their USC ID, and selecting their role(Admin, PA) |
| **Development Risks** | None |
| **Preconditions** | The user has logged into the system as JEP admin. |
| **Post-conditions** | A new user has been added into the system with his role, or nothing has been changed |
| **Typical Course of Action** | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click user "Manage User" link |  | | 2 |  | Redirect to a page for user management | | 3 | Click "Add User" button |  | | 4 |  | Display a form with text input area and drop-down list for roles | | 5 | Input new user's USC ID, First name, Last Name, Email, Office hours and select his role and click submit |  | | 6 |  | Check the USC ID existing or not | | 7 |  | Adding the new user into database | | 8 |  | Display success message | |
| **Exceptional Course of Action**  (User already exists) | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click user "manage permission" link |  | | 2 |  | Redirect to a page for user management | | 3 | Click add new link |  | | 4 |  | Display a form with text input area and checkable radio button for roles | | 5 | Input new user's USC ID and select his role and click submit |  | | 6 |  | Check the USC ID existing or not | | 7 |  | Display already existing error | |
| Exceptional Course of Action (invalid email format) | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Enter invalid email format. |  | | 2 |  | Display invalid email format label. | |
| Exceptional Course of Action (missing USC ID) | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click submit without entering USC ID |  | | 2 |  | Display a label USC ID cannot be empty. | |

### Image7.png Edit User

#### Use Case Descriptions

|  |  |
| --- | --- |
| **Main** | |
| **Identifier** | UC15: Edit User |
| **Purpose** | To edit the admin or PA's role for JEP online system |
| **Requirements** | WC\_2820: As an admin, I can edit users' (admin, and PA) roles in the system. |
| **Development Risks** | None |
| **Preconditions** | The user has logged into the system as JEP admin. |
| **Post-conditions** | The specific user's role has been changed. |
| **Typical Course of Action** | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "Manager User" link |  | | 2 |  | Redirect to a page for user management with current users' list | | 3 | Select a user and click "edit" button |  | | 4 |  | Display a window with the users' information (USC ID, First name, Last name, role, email, office hours). | | 5 | Edit the values (First name,Last name, role, email, office hours) and click "Edit" button |  | | 6 |  | Update the user's information in our database | | 7 |  | Display success information | |
| Exceptional Course of Action (Email Wrong) | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Enter invalid email format. |  | | 2 |  | Display invalid email format label. | |

### Image7.png Browse volunteer information

#### Extension Points

|  |  |
| --- | --- |
| **ExtensionPoint** | |

#### Use Case Descriptions

|  |  |
| --- | --- |
| **Main** | |
| **Identifier** | UC07: Browse volunteer information |
| **Purpose** | To see the information about volunteers who are assigned to the PA. |
| **Requirements** | WC\_2784: As JEP PA, I can browse my student information. |
| **Development Risks** | None |
| **Preconditions** | The user has logged into the system as Program Assistant. |
| **Post-conditions** | Get the information about the PA's volunteers, or no volunteer has been find. |
| **Typical Course of Action** | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "My Volunteers" link |  | | 2 |  | show the criteria options for the search | | 3 | enter the criteria and click "search" bottom |  | | 4 |  | show the table contain the volunteers base on the criteria | |
| **Exceptional Course of Action**  (No volunteer for the PA) | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "My Volunteers" link |  | | 2 |  | Show the criteria options for the search | | 3 | Enter the criteria and click "search" bottom |  | | 4 |  | show nothing in the table | |

### Image7.png Manage JEP documents

#### Use Case Descriptions

|  |  |
| --- | --- |
| **Main** | |
| **Identifier** | UC08: Manage JEP Documents |
| **Purpose** | To upload or delete JEP documents |
| **Requirements** | WC\_2782: As a program assistant , I can upload JEP important documents |
| **Development Risks** | None |
| **Preconditions** | The user has logged into the system as JEP program assistant. |
| **Post-conditions** | The uploaded document has been recorded into or deleted from web server, or nothing has been changed. |
| **Typical Course of Action**  (Upload) | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "Documents" link |  | | 2 |  | Display a page that contains a form for uploading documents | | 3 | Click "Choose File" button |  | | 4 |  | Pop up a window for selecting the document | | 5 | Select the document and click "Open" |  | | 6 |  | Save the document path | | 7 | Input the file name and description |  | | 8 | Click "Submit" |  | | 9 |  | Check the format whether the document is PDF or .doc and the size is smaller than 10 MB | | 10 |  | Add the document into the server and information into the database. | | 11 |  | Display success submit message | | 12 |  | Open select students page | | 13 | Search for students and select students then click "Add" . |  | | 14 |  | Display success message | |
| **Alternative Course of Action**  (Delete) | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Select a document and click "Delete" icon |  | | 2 |  | Display a confirmation window | | 3 | Select "OK" |  | | 4 |  | Delete document from the server and database | | 5 |  | Display success deletion message | |
| **Alternative Course of Action** (Download) | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Select a document and click "Download" icon |  | | 2 |  | Download the documents into the local machine | |
| **Exceptional Course of Action**  (Failure: the document type is not allowed or its size is larger than limits) | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "Submit" |  | | 2 |  | Check the format whether the document is PDF or .doc and the size is smaller than 10 MB | | 3 |  | Pop up alert based on the error type. (Not PDF or .doc document or the size is larger than 10 MB) | |

### Image7.png Logout

#### Use Case Descriptions

|  |  |
| --- | --- |
| **Main** | |
| **Identifier** | UC12: Logout |
| **Purpose** | To log out a user who has logged in the JEP online system |
| **Requirements** | UC\_2786: As a user, I can log out. |
| **Development Risks** | None |
| **Preconditions** | The user has logged into the system. |
| **Post-conditions** | The user successfully has logged out the platform, and see an specific page. |
| **Typical Course of Action** | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click the Logout button |  | | 2 |  | Log the user out and deactivate the user's session | | 3 |  | Show a page that tells the user "To ensure log out, you must completely quit/close your web browser." | |

### Image7.png Login

#### Use Case Descriptions

|  |  |
| --- | --- |
| **Main** | |
| **Identifier** | UC11: Login |
| **Purpose** | Authorizing a user to log into the platform |
| **Requirements** | WC\_2785: As a user I can log in.  WC\_2787: As a user, I can view the proper website view based on my role after I logged in |
| **Development Risks** | Secure connection protocol may be required. |
| **Preconditions** | The database is connected and initialized. |
| **Post-conditions** | The user has successfully log into the platform and see the homepage, or redirect to Dornsife, or user still keep in the login page with error message. |
| **Typical Course of Action** | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Enter username and password in the login form |  | | 2 | Click "Log in" button |  | | 3 |  | Verify input username and password combination by Shibboleth | | 4 |  | Check the user's role in our database | | 5 |  | Redirect to a specific index page based on his current role | |
| **Alternative Course of Action**  (Forget Password) | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "Forget Password" button |  | | 2 |  | Link to Dornsife registration system "forget password" | |
| **Exceptional Course of Action** (Wrong username/password combination) | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Enter username and password in the login form |  | | 2 | Click "Log in" button |  | | 3 |  | Verify input username and password combination | | 4 |  | Display the failure login information in the login page | |

### Image7.png Export check-in

#### Use Case Descriptions

|  |  |
| --- | --- |
| **Main** | |
| **Identifier** | UC06: Export check-in |
| **Purpose** | View volunteers' attendance to help grading and comment to volunteers |
| **Requirements** | WC\_2610: As a program assistant, I can export my students check-ins information which includes(date,time,and site). |
| **Development Risks** | None |
| **Preconditions** | The user has logged into the system as Program Assistant. The attendance records are ready. |
| **Post-conditions** | Program assistant can know the result of attendance for the selected volunteer. Or no available record is displayed. |
| **Typical Course of Action** | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click on "view" link |  | | 2 |  | show the record of the student. | | 3 | Click on "export to excel" |  | | 4 |  | pop out the frame to ask user to choose directory and file name. | | 5 | select directory and file name and save. |  | |
| **Exceptional Course of Action**  (Fail to get record) | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click on "view" button |  | | 2 |  | show nothing about the record | | 3 | Click "Export" |  | | 4 |  | have no action for the click | |

### Image7.png View JEP documents

#### Use Case Descriptions

|  |  |
| --- | --- |
| **Main** | |
| **Identifier** | UC04: View JEP Documents |
| **Purpose** | To see JEP documents |
| **Requirements** | WC\_2781: As a JEP volunteer, I can view a list of all JEP documents. |
| **Development Risks** | None |
| **Preconditions** | The user has logged into the system as a volunteer. The list of JEP documents are ready. |
| **Post-conditions** | Display the content of the selected JEP document. Or no document can be find. |
| **Typical Course of Action** | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "My Documents" link |  | | 2 |  | Verify the existence of documents | | 3 |  | Redirect to a page with the list of documents | | 4 | Click the specific document name which the user wants to download |  | | 5 |  | Download the documents into the local machine | |

### Image7.png Search volunteer information

#### Use Case Descriptions

|  |  |
| --- | --- |
| **Main** | |
| **Identifier** | UC13: Search volunteer Information |
| **Purpose** | To search specific volunteers information from all JEP volunteers |
| **Requirements** | WC\_2794: As JEP Admin, I can search student view and their information |
| **Development Risks** | None |
| **Preconditions** | The user has logged into the system as JEP admin. |
| **Post-conditions** | View the specific volunteer information, or no volunteer is found. |
| **Typical Course of Action** | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click on " Volunteer Info" link |  | | 2 |  | show the criteria options for the search | | 3 | enter the criteria and click "search" |  | | 4 |  | show the table contain volunteer base on the criteria | | 5 | click "detail info" |  | | 6 |  | Display the specific volunteer's information | |
| **Exceptional Course of Action**  (The input name and ID are invalid) | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click on " Volunteer Info" link |  | | 2 |  | show the criteria options for the search | | 3 | Enter the volunteer's name and ID |  | | 4 |  | show nothing in the table | |

### Image7.png Get directions

#### Use Case Descriptions

|  |  |
| --- | --- |
| **Main** | |
| **Identifier** | UC03: Get directions |
| **Purpose** | Get the directions from current location to site by various transportation methods. |
| **Requirements** | WC\_2643: As a JEP volunteer, I can see maps to and from community sites and USC. |
| **Development Risks** | Some sites may not near street. |
| **Preconditions** | The user has logged into the system as Volunteer. The user is currently on the Check In page |
| **Post-conditions** | Show the navigation from current location or specific location to site. |
| **Typical Course of Action** | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "Direction" button for a specific site in the Check In page |  | | 2 |  | Display the map with directions from my current location to site with default "driving" mode | |
| **Alternative Course of Action**  (Change Mode of Transport) | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "Direction" button for a specific site in the Check In page |  | | 2 |  | Display a map with a selection form for transportation | | 3 | Select a transport mode |  | | 4 |  | Display the map with directions from my specific location to site by using selected transport method | |

### Image7.png View schedule information

#### Use Case Descriptions

|  |  |
| --- | --- |
| **Main** | |
| **Identifier** | UC05: View schedule information |
| **Purpose** | Display schedule to user |
| **Requirements** | WC\_2645: As a JEP volunteer, I can log in and find my site information including location, description, and site times that I am supposed to go there. |
| **Development Risks** | None |
| **Preconditions** | The user has logged into the system as a volunteer. |
| **Post-conditions** | Display the schedule or non-existence alert to user |
| **Typical Course of Action** | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "My Schedule" link |  | | 2 |  | Check the existence of schedule | | 3 |  | Display MySchedule Page with schedule information | |
| **Exceptional Course of Action**  (Fail to get schedule) | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "My Schedule" link |  | | 2 |  | Check the existence of schedule | | 3 |  | Display MySchedule Page with non-existence alert | |

### Image7.png View my sites information

#### Use Case Descriptions

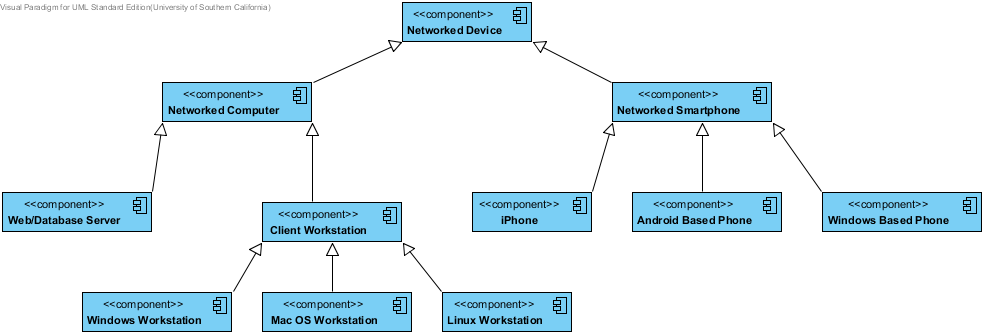
|  |  |
| --- | --- |
| **Main** | |
| **Identifier** | UC02: View my site information |
| **Purpose** | To know the information about the assigned community site |
| **Requirements** | WC\_2645: As a JEP volunteer, I can log in and find my site information including location, description, and site times that I am supposed to go there. |
| **Development Risks** | None |
| **Preconditions** | The user has logged into the system as a volunteer. The JEP admin has created the site information. |
| **Post-conditions** | Get the information about my specific site. Or nothing has been displayed. |
| **Typical Course of Action** | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "Check In" tab in the main page |  | | 2 |  | Check whether the students has been assigned to at least one site. | | 3 |  | Display the assigned sites list | | 4 | Click "View" icon for a specific site |  | | 5 |  | Display this site's information on a new page | |
| **Exceptional Course of Action**  (No Site information) | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "Check In" tab in the main page |  | | 2 |  | Check whether the students has been assigned to at least one site. | | 3 |  | Pop up alert: no site information | |

### Image7.png Check in

#### Use Case Descriptions

|  |  |
| --- | --- |
| **Main** | |
| **Identifier** | UC01: Check in |
| **Purpose** | Allow volunteers check in at specific sites |
| **Requirements** | WC\_2609: As a JEP volunteer, I can check-in my geo location on through the website either from my phone or pc, to confirm my attendance at a school or volunteer site.  WC\_2651: As a JEP volunteer, I get a message when I check in |
| **Development Risks** | May produce high traffic load to Google Maps API |
| **Preconditions** | The user has logged into the system as a volunteer. |
| **Post-conditions** | The check-in record would be saved in database and display success message, or display alert message. |
| **Typical Course of Action** | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "Check In" tab in the main page |  | | 2 |  | Open a new page with the site lists and Check In button | | 3 | Click a specific site's Check In button |  | | 4 |  | Compare the current location with the site location | | 5 |  | Pop-up success check-in announcement based on the comparison result | |
| **Exceptional Course of Action**  (Failure: out of site range) | |  |  |  | | --- | --- | --- | |  | **Actor Input** | **System Response** | | 1 | Click "Check In" tab in the main page |  | | 2 |  | Open a new page with the site lists and Check In button | | 3 | Click a specific site's Check In button |  | | 4 |  | Compare the current location with the site location | | 5 |  | Pop-up alert : Check In fail | |

# Hardware Component Class Diagram



## Details

### Image9.png Networked Device

### Image9.png Networked Computer

### Image9.png Networked Smartphone

### Image9.png Web/Database Server

### Image9.png iPhone

### Image9.png Android Based Phone

### Image9.png Windows Based Phone

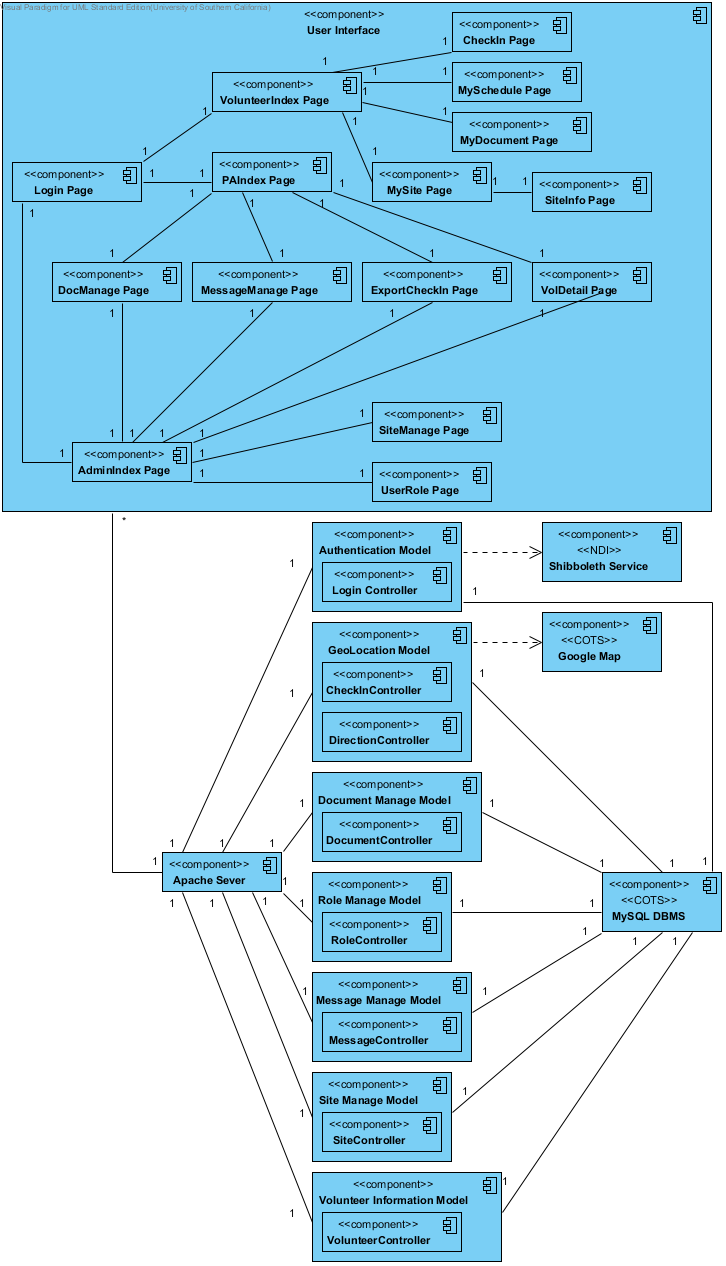
### Image9.png Client Workstation

### Image9.png Windows Workstation

### Image9.png Mac OS Workstation

### Image9.png Linux Workstation

# Software Component Class Diagram



## Details

### Image9.png User Interface

### Image9.png CheckIn Page

### Image9.png MySchedule Page

### Image9.png VolunteerIndex Page

### Image9.png MyDocument Page

### Image9.png PAIndex Page

### Image9.png Login Page

### Image9.png MySite Page

### Image9.png SiteInfo Page

### Image9.png DocManage Page

### Image9.png MessageManage Page

### Image9.png ExportCheckIn Page

### Image9.png VolDetail Page

### Image9.png SiteManage Page

### Image9.png AdminIndex Page

### Image9.png UserRole Page

### Image9.png Authentication Model

### Image9.png Shibboleth Service

### Image9.png Login Controller

### Image9.png Google Map

### Image9.png GeoLocation Model

### Image9.png CheckInController

### Image9.png DirectionController

### Image9.png Document Manage Model

### Image9.png DocumentController

### Image9.png Apache Sever

### Image9.png Role Manage Model

### Image9.png MySQL DBMS

### Image9.png RoleController

### Image9.png Message Manage Model

### Image9.png MessageController

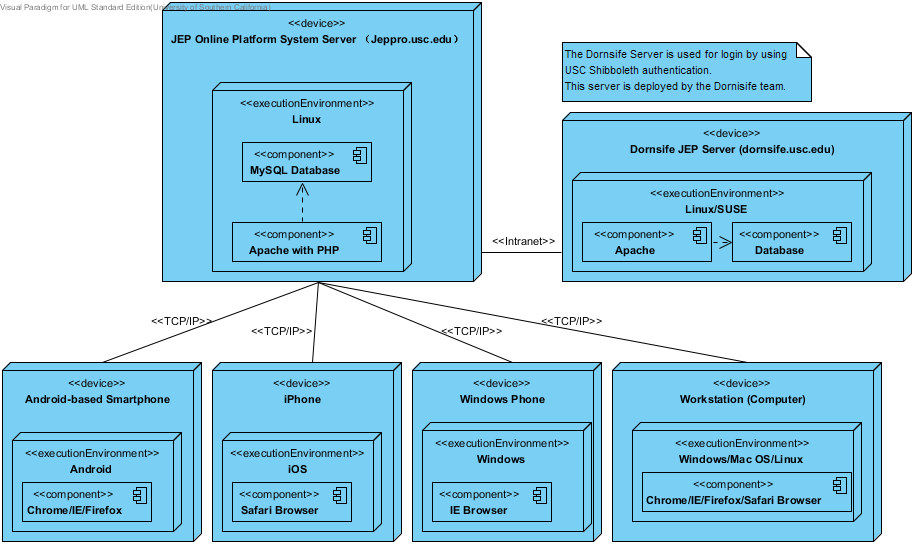
### Image9.png Site Manage Model

### Image9.png SiteController

### Image9.png Volunteer Information Model

### Image9.png VolunteerController

# Deployment Diagram



## Details

### Image12.png JEP Online Platform System Server （Jeppro.usc.edu）

### Image12.png Linux

### Image12.png Dornsife JEP Server (dornsife.usc.edu)

### Image9.png MySQL Database

### Image12.png Linux/SUSE

### Image9.png Apache with PHP

### Image9.png Apache

### Image9.png Database

### Image12.png Android-based Smartphone

### Image12.png iPhone

### Image12.png Windows Phone

### Image12.png Workstation (Computer)

### Image12.png Windows

### Image12.png Windows/Mac OS/Linux

### Image12.png Android

### Image12.png iOS

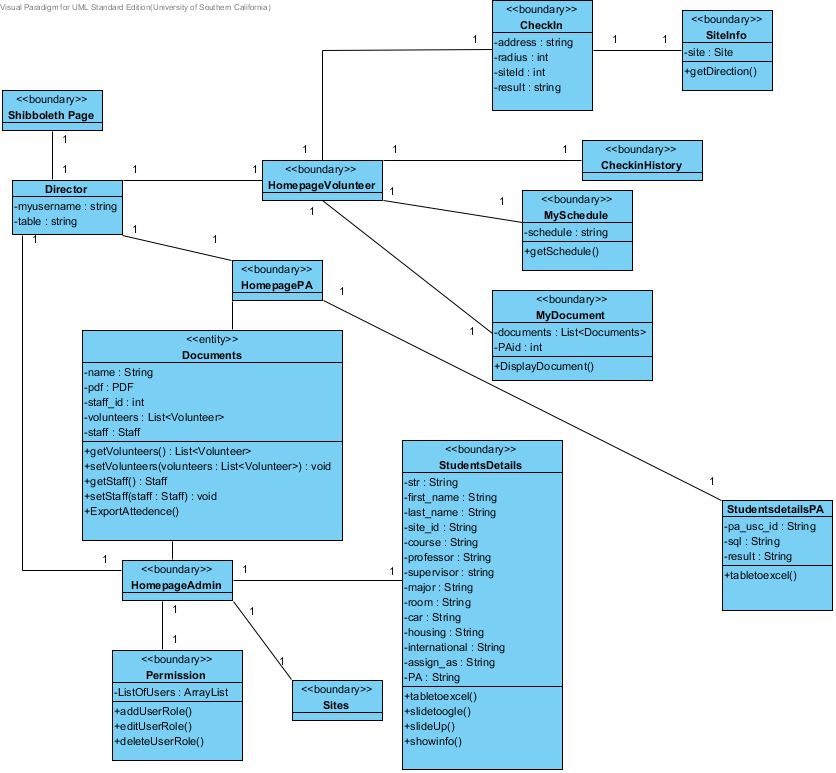
### Image9.png Chrome/IE/Firefox/Safari Browser

### Image9.png Safari Browser

### Image9.png IE Browser

### Image13.png N/A

# User Interface Class Diagram



## Details

### Image1.png CheckIn

### Image1.png SiteInfo

### Image1.png Shibboleth Page

### Image1.png CheckinHistory

### Image1.png HomepageVolunteer

### Image1.png Director

### Image1.png MySchedule

### Image1.png HomepagePA

### Image1.png MyDocument

### Image1.png Documents

### Image1.png StudentsDetails

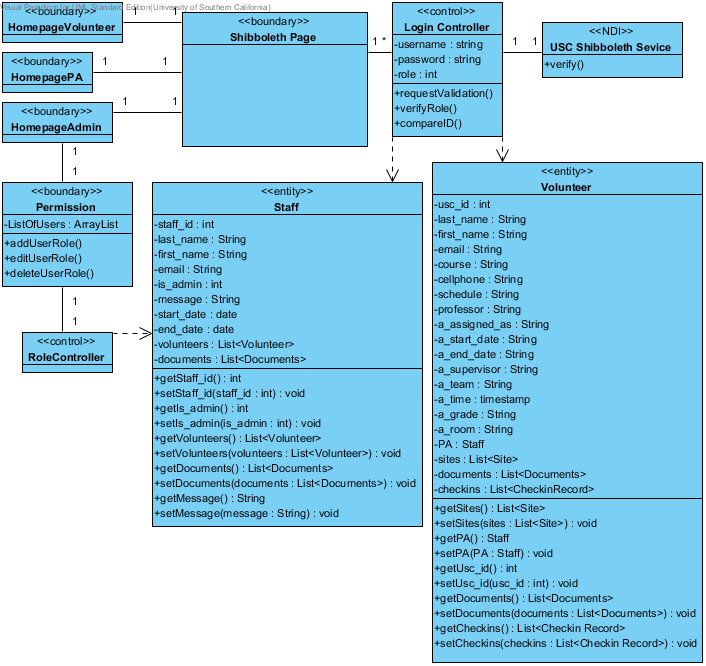
### Image1.png StudentsdetailsPA

### Image1.png HomepageAdmin

### Image1.png Permission

### Image1.png Sites

# Login and Role Management Class Diagram



## Details

### Image1.png HomepageVolunteer

### Image1.png Login Controller

### Image1.png Shibboleth Page

### Image1.png USC Shibboleth Sevice

### Image1.png HomepagePA

### Image1.png HomepageAdmin

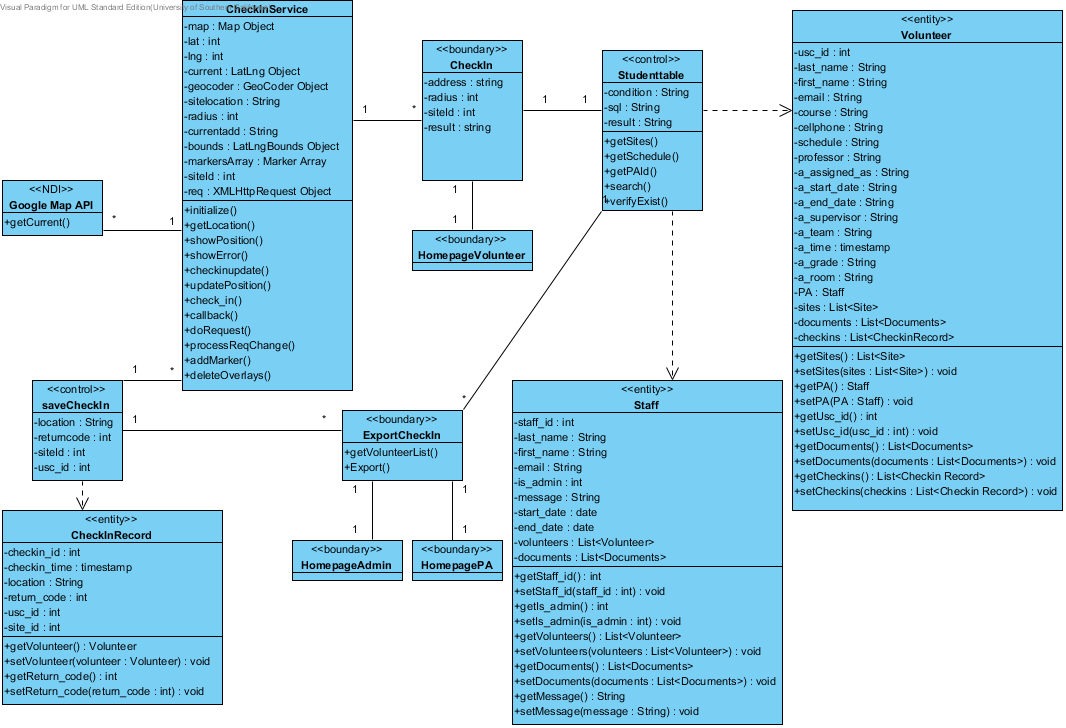
### Image1.png Volunteer

### Image1.png Permission

### Image1.png Staff

### Image1.png RoleController

# Check-in Class Diagram



## Details

### Image1.png CheckInService

### Image1.png Volunteer

### Image1.png CheckIn

### Image1.png Studenttable

### Image1.png Google Map API

### Image1.png HomepageVolunteer

### Image1.png saveCheckIn

### Image1.png Staff

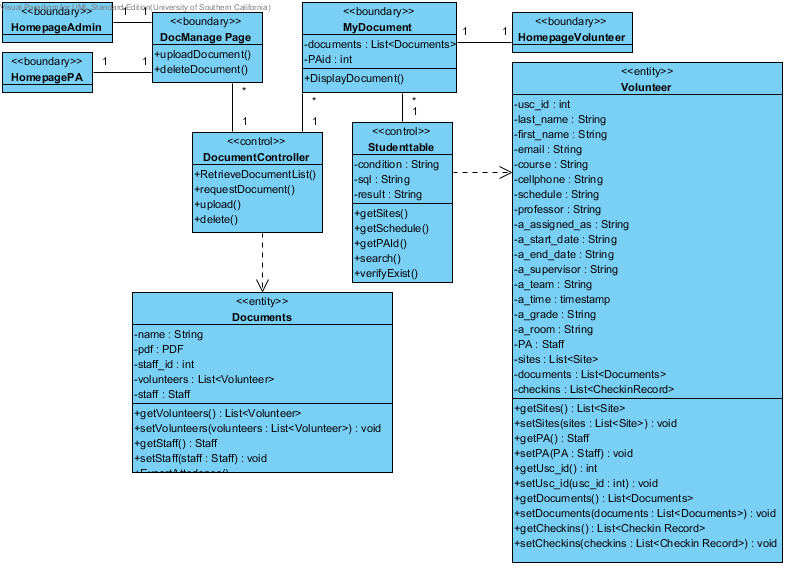
### Image1.png ExportCheckIn

### Image1.png CheckInRecord

### Image1.png HomepageAdmin

### Image1.png HomepagePA

# Document Management Class Diagram



## Details

### Image1.png HomepageAdmin

### Image1.png MyDocument

### Image1.png DocManage Page

### Image1.png HomepageVolunteer

### Image1.png HomepagePA

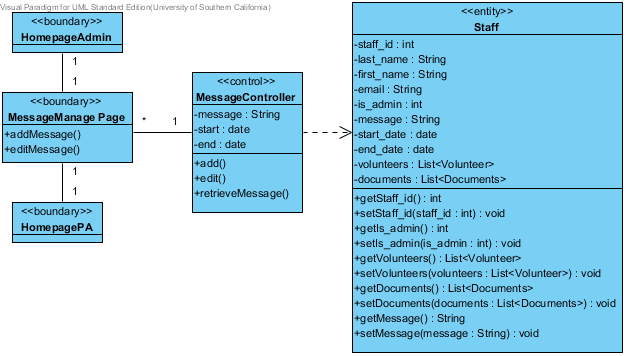
### Image1.png Volunteer

### Image1.png Studenttable

### Image1.png DocumentController

### Image1.png Documents

# Message Management Class Diagram



## Details

### Image1.png Staff

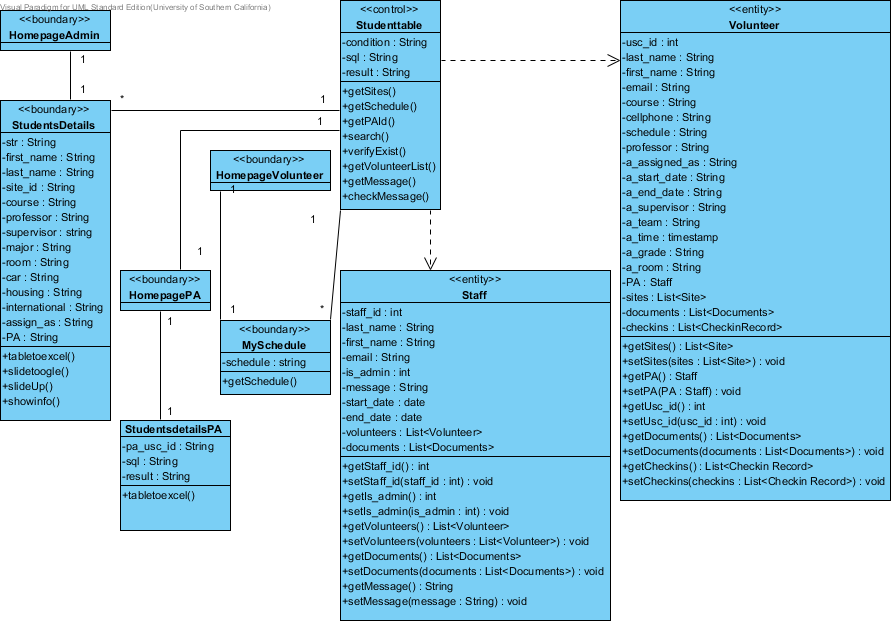
### Image1.png HomepageAdmin

### Image1.png MessageController

### Image1.png MessageManage Page

### Image1.png HomepagePA

# Volunteer Class Diagram



## Details

### Image1.png Studenttable

### Image1.png Volunteer

### Image1.png HomepageAdmin

### Image1.png StudentsDetails

### Image1.png HomepageVolunteer

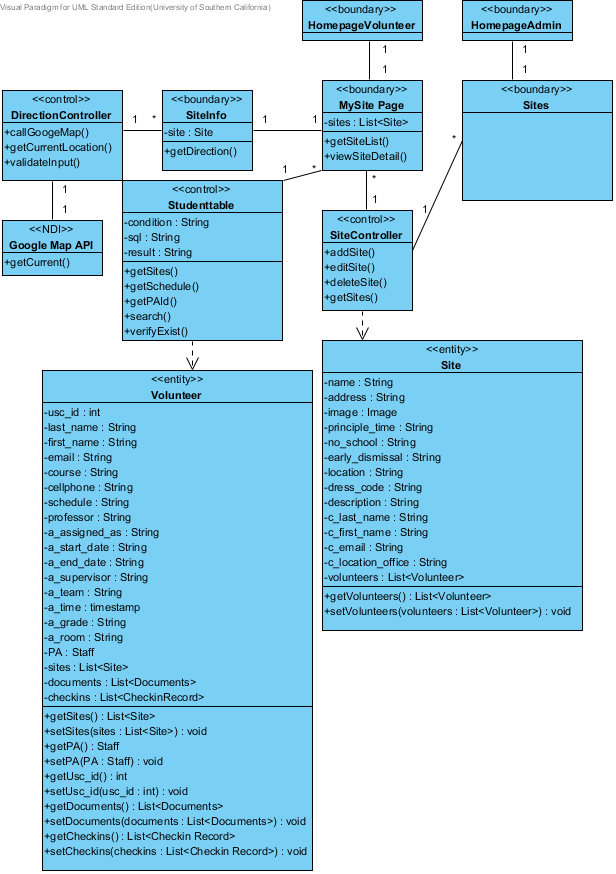
### Image1.png HomepagePA

### Image1.png Staff

### Image1.png MySchedule

### Image1.png StudentsdetailsPA

# Site Management Diagram



## Details

### Image1.png HomepageVolunteer

### Image1.png HomepageAdmin

### Image1.png MySite Page

### Image1.png Sites

### Image1.png DirectionController

### Image1.png SiteInfo

### Image1.png Studenttable

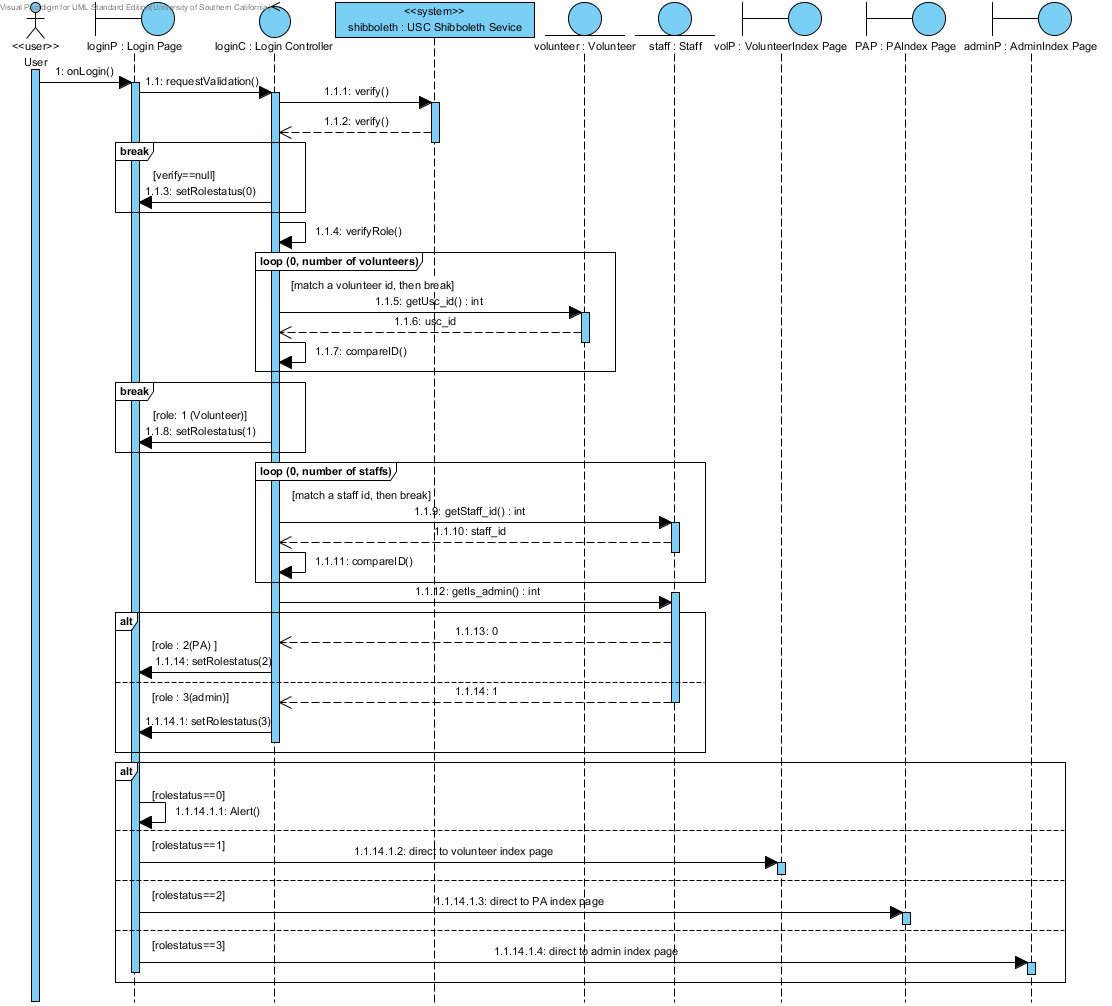
### Image1.png SiteController

### Image1.png Google Map API

### Image1.png Site

### Image1.png Volunteer

# Login Sequence Diagram



## Details

### Image3.png User

### Image22.png loginP : Login Page

### Image22.png loginC : Login Controller

### Image22.png shibboleth : USC Shibboleth Sevice

### Image22.png volunteer : Volunteer

### Image22.png staff : Staff

### Image22.png volP : VolunteerIndex Page

### Image22.png PAP : PAIndex Page

### Image22.png adminP : AdminIndex Page

### Image23.png Verify

### Image23.png roleVolunteer

### Image23.png findPA

### Image23.png findAdmin

### Image23.png showAlert

### Image23.png showVolP

### Image23.png compareStaff

### Image23.png showPAP

### Image23.png showAdminP

### Image24.png CombinedFragment8

### Image24.png CombinedFragment7

### Image24.png CombinedFragment6

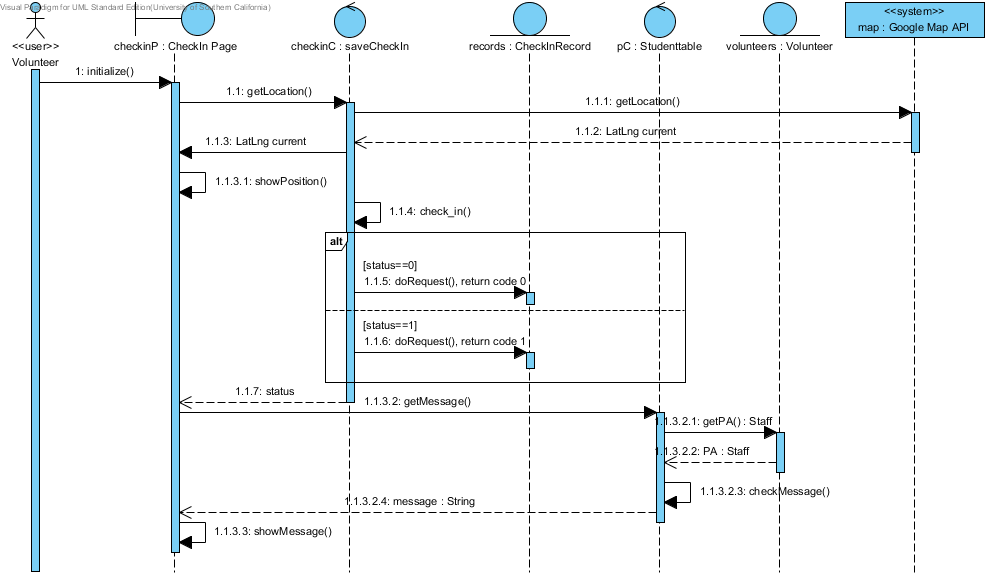
### Image24.png CombinedFragment5

### Image23.png compareVolunteer

### Image24.png CombinedFragment4

### Image24.png CombinedFragment3

# Checkin Sequence Diagram



## Details

### Image3.png Volunteer

### Image22.png checkinP : CheckIn Page

### Image22.png checkinC : saveCheckIn

### Image22.png map : Google Map API

### Image22.png records : CheckInRecord

### Image22.png pC : Studenttable

### Image22.png volunteers : Volunteer

### Image23.png chickinfail

### Image23.png checkinsuccess

### Image24.png CombinedFragment