Team: Erin Boeger, Edward Crawford, Kyle Knight, Josh Rinaldi

Title: CU Engage

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Design Patterns: We are using the Composition design pattern (with an Active Record Base) as well as a Polymorphic `contactInformation` class.

Project Summary: The aim of this project is to work with CU Engage to create a way of storing information about their on-campus programs, as well as the community partners that those programs work with. People using this site would be able to find descriptions of what each program does and which partners in the community that program works with to achieve it's goals. Another function will be to retrieve contact information of these organizations in an effort to better connect students to those programs or partners to further their professional and personal development.

Current Development Repository: https://github.com/SullysMustyRuby/cu_app

Data Storage: For data storage, we will be using SQLite for development and testing purposes. Our final database will depend on the host environment and CU's server database policies. The current prototype is written in Ruby on Rails and thus very flexible and can accommodate almost any database technology.
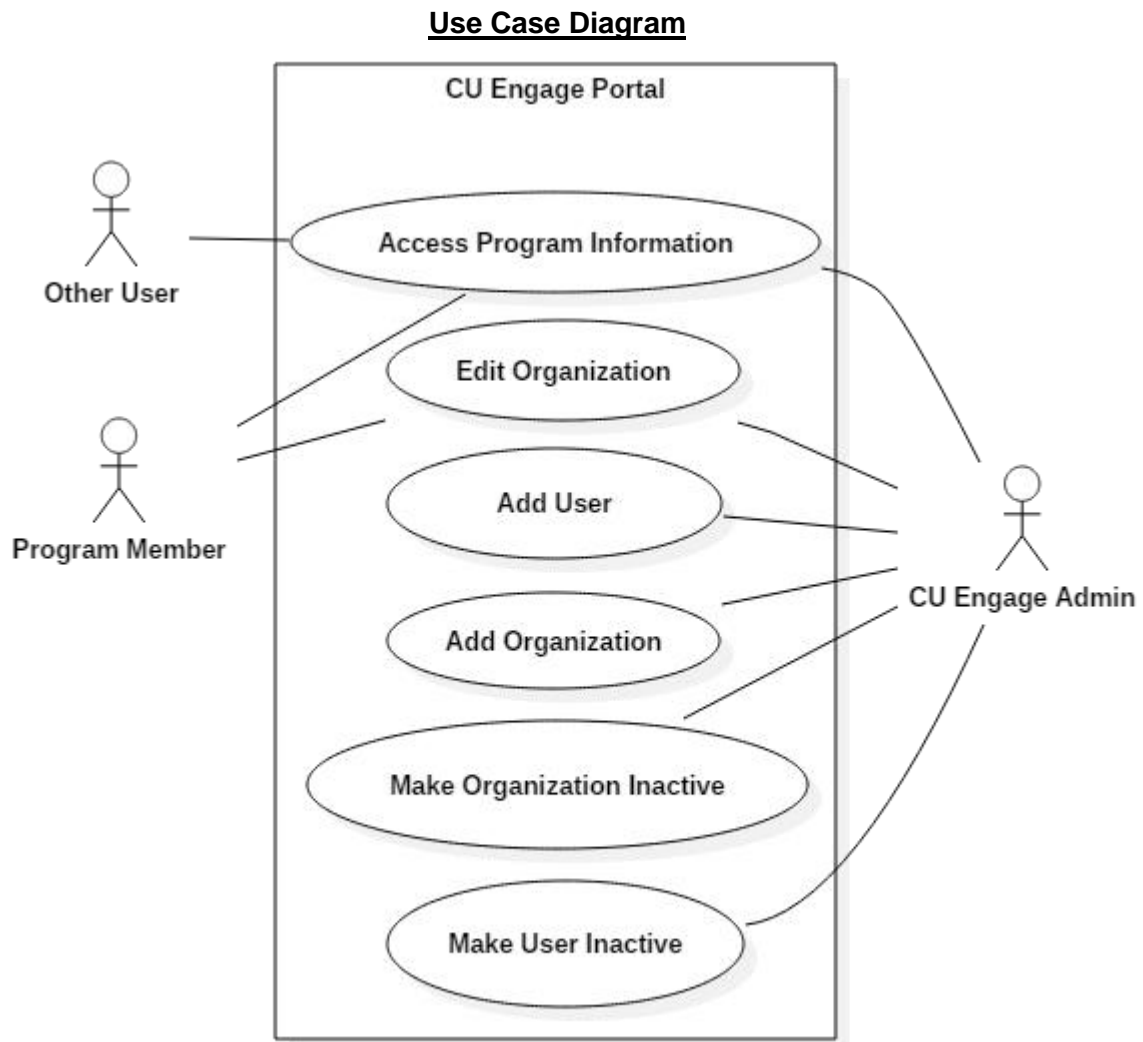
Project Requirements:

User Requirements		
ID	**Description**	**Priority**
UR-01	As a user, I need the ability to find organizations based on what partners they are involved with	High
UR-02	As a user, I need the ability to find partners based on what organizations they are involved with	High
UR-03	As a user, I need the ability to search	Low
UR-04	As a Program Admin, I need the ability to edit organizations and their affiliated partners.	Med
UR-05	As a CU Engage Admin, I need to be able to add and edit organizations	High
UR-06	As a CU Engage Admin, I need to be able to set organizations to inactive	High

Functional Requirements		
ID	**Description**	**Priority**
FR-01	If an organization is edited, the database should be updated	High
FR-02	If an organization admin is created, then the system needs to assign an admin role to the user	High
FR-03	If a user requests information, the system should display the correct information from the database	High

Non-Functional Requirements		
ID	**Description**	**Priority**
NFR-01	System needs to provide proper authentication as a security layer	High
NFR-02	If user uses a search, results must be displayed in a timely manner	Low
NFR-03	Accessible by mobile devices and computers	Med
NFR-04	System should work on all popular web browsers	Low

Business Requirements		
ID	**Description**	**Priority**
BR-01	Users able to login through CU Identitkey system	High
BR-02	Potential partners need to be able to get information on becoming a partner for one or more organizations	Low
BR-03	System must have different roles of the users (CU Engage Admin, Program Admin, Regular User)	High
BR-04	A partner should have a name, description, address, contact (person), website, phone, email, type, catagories	Med
BR-05	An organization should have a name, description, address, contact (person), website, phone, email, type, catagories	Med

Users and Tasks: Our system has three different types of users: CU Engage Admin, Organization Admin, and Other User

Use Case Diagram

Use Case Documents

Use Case ID:	001
Use Case Name:	Access Information on Program
Description:	User visiting CU Engage Website to access information on a particular Program.
Actors:	Other User
Pre-Conditions:	User has network connection
Post-Conditions:	User gains necessary knowledge on one or more CU Engage Programs and affiliated partners.
Frequency of Use:	Whenever a user needs to learn about a CU Engage program or partner.
Flow of Events:	1. User opens up web browser and goes to CU Engage webpage. 2. User uses portal to manually find or search for particular program. 3. User is presented information on that program and any affiliated partners. 4. Users can then find other programs that have similar affiliated partners.
Variations:	User leaves CU Engage portal by clicking on a partners webpage
Notes and Issues:	Use case is for user with zero authentication access.
Developer Notes:	User not able to edit or add information on portal.

Use Case ID:	002
Use Case Name:	Edit Organization
Description:	Update information about various Programs and Partners in the CU Engage program.
Actors:	CU Engage Admin, CU Engage Staff Member
Pre-Conditions:	1. Organization must already exist. 2. User must have administrative access to that Organization.
Post-Conditions:	1. Must be a change in the Organization's information. 2. Organization's information, including contact information, as well as all partnerships, will be up to date.
Frequency of Use:	As needed for each organization, as its' information is updated.
Flow of Events:	1. User opens webpage portal to authentication screen. 2. Enters credentials, and goes to user's home page. 3. Hit "Edit Organization" button. 4. User makes appropriate changes to the organization's information. 5. User saves the information and exits the editing window.
Variations:	2a. Invalid credentials, cannot go to user's home page. 3a. User is CU Engage Admin; must select the organization to edit
Notes and Issues:	1. Must ensure that users can only edit the appropriate organization pages.
Developer Notes:	1. To ensure users can only access their specific Organizations, Organizations must be mapped to users (if necessary, e.g. a Community Partner doesn't need a user, because the Users will be from the Campus Programs).

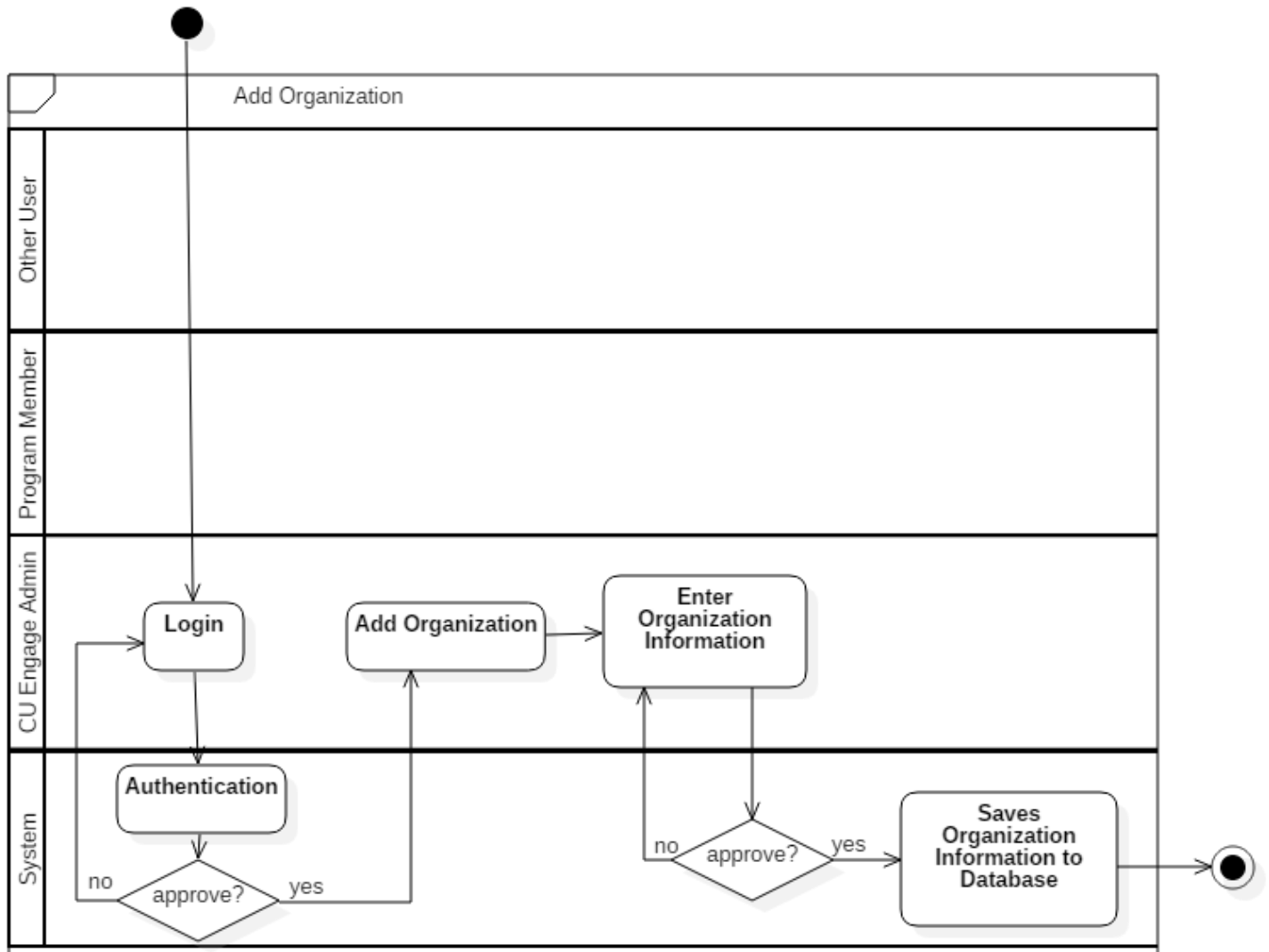| Use Case ID:	003
Use Case Name:	Add User
Description:	Create New User with Access to the System
Actors:	CU Engage Admin
Pre-Conditions:	1. User has administrative access. 2. Organization is not already active in CU Engage.
Post-Conditions:	1. New User is listed on CU Engage website with related information. 2. User has access to all appropriate information and privileges with regards to editing organization information.
Frequency of Use:	Once per User
Flow of Events:	1. Existing user opens webpage portal to authentication screen. 2. Enters credentials, and goes to admin page. 3. Hit "Add User" button on admin page. 4. Prompted to enter required information on new user, including, but not limited to basic contact information and the Organizations that user has access to. 5. User prompted to accept credentials. 6. System creates a user account using the entered information. 7. New user is able to access the CU Engage system and manage their organizations.
Variations:	1. Invalid Credentials 2. Cannot create new Organization
Notes and Issues:	1. Must enter all pertinent information in fields before new user can be created. 2. Must have connection to create.
Developer Notes:	User has administrative access and network connection. Automatic HTML Page making for new Organizations.

Use Case ID:	004
Use Case Name:	Add Organization
Description:	Create New Organization on CU Engage Website
Actors:	CU Engage Admin
Pre-Conditions:	1. User has administrative access. 2. Organization is not already active in CU Engage.
Post-Conditions:	1. New Organization is listed on CU Engage website with related information. 2. Organization has all correct relations to other organizations and/or off-campus programs as well.
Frequency of Use:	Once per Organization
Flow of Events:	1. User opens webpage portal to authentication screen. 2. Enters credentials, and goes to admin page. 3. Hit add organization button on admin page. 4. Prompted to enter required information on new program, including but not limited to: Name, main contact, email, description/goals, and partners. 5. User prompted to accept credentials. 6. System creates a webpage and URL based on entered credentials. 7. New Organization & Webpage is active on CU Engage System..
Variations:	Invalid Credentials, Cannot create new Organization.
Notes and Issues:	1. Any other information that should be attributed for each Organization? 2. Must have connection to create.
Developer Notes:	User has administrative access and network connection. Automatic HTML Page making for new Organizations.

Use Case ID:	005
Use Case Name:	Make Organization Inactive
Description:	Set organization to inactive and removes users' ability to view information about it.
Actors:	CU Engage Admin
Pre-Conditions:	1. Organization must exist 2. Organization must have active status 3. User must have valid access to account. E.g. User must have administrative privileges
Post-Conditions:	1. Intended organization is set as inactive 2. Intended organization's ability to be accessed by users is removed.
Frequency of Use:	Whenever an organization needs to be removed from the CU Engage system.
Flow of Events:	1. User opens webpage portal to authentication screen. 2. Enters credentials and goes to user's home page. 3. Hit "Edit Organization" button. 4. Hit "Deactivate Organization" button. 5. System replies with a request to confirm this is the intended organization. 6. User confirms the organization is correct. 7. System confirms that intended organization is set to inactive status. 8. Intended organization's ability to be viewed and edited by users is removed.
Variations:	1. Initial credentials are incorrect and the admin is denied access. 2. Organization is already inactive and cannot be set to inactive a second time. 3. User clicks no when confirming organization.
Notes and Issues:	User must have editing privileges for that organization.
Developer Notes:	May keep boolean category of "active" in database to keep track of active organizations.

Use Case ID:	006
Use Case Name:	Make User Inactive
Description:	Set user profile to inactive and removes their ability to edit information
Actors:	CU Engage Admin
Pre-Conditions:	1. User must exist 2. User must have active status 3. User causing account to become inactive must have valid access to account. E.g. User must have administrative privileges
Post-Conditions:	1. Intended account is set as inactive 2. Intended account's access to editing its' organizations information is removed.
Frequency of Use:	Whenever an organization needs to remove a member's ability to edit their online information.
Flow of Events:	1. User opens webpage portal to authentication screen. 2. Enters credentials and goes to user's home page. 3. Hit "Edit Organization" button. 4. Hit "Deactivate User" button. 5. User inputs UserID for the intended account. 6. System replies with a request to confirm this is the intended account. 7. User confirms the account is correct. 8. System confirms that intended user is set to inactive status. 9. Intended users editing and log-in capabilities are removed.
Variations:	1. Initial credentials are incorrect and the admin is denied access. 2. entered intended Username is invalid and cannot be set to inactive 3. User is already inactive and cannot be set to inactive a second time. 4. User clicks no when confirming account name and the entered username data is reset.
Notes and Issues:	User must have editing privileges for their organization's information removed.
Developer Notes:	May keep boolean category of "active" in database to keep track of active users.

Activity Diagrams:

Make Organization Inactive

Other User	
Program Member	
CU Engage Admin	Login → Edit Organization → Deactivate Organization → Correct? (no / yes)
System	Authentication → approve? (no / yes) → Send Request to User that Organization is Correct → Sets Organization to Inactive

UI Mockup:

CU ENGAGE

UserID: [UserID]
Forgot UserID?

Password: [Password]
Forgot Password?

(Enter)

CU ENGAGE

▼ Projects	▼ Collaborators
Build pig cannon	Bored Engineers Inc.
Orbital Death Laser	Dr. Evil Foundation
Ransom Princess Peach	King Bowser/ Goomba & Sons.

▼ Staff	▼ Contact Info
Mr. Something O. Rother	SomethingORother@whatnot.org
Ms. Tota Lee Reel	TLReel@lexist.com

CU ENGAGE

▼ Organization	▼ Staff Contact	▼ Contact Info	Organization Goals	▼ Website
Emergency Family Assistance Association (EFAA)	Not Listed	N/A	Fighting Poverty	http://www.efaa.org/
Safehouse Progressive Alliance for Nonviolence (SPAN)	Not Listed	N/A	Preventing Domestic Violence	http://www.safehousealliance.org/
School Readiness Initiative	Chris Barge	Chrisbarge@madeupemail.com	Promote Community Wellness	http://www.commfound.org/communityleadership/schoolreadiness
Student Outreach & Retention Center for Equity (SORCE)	Victor Hernandez	VHernandez@alsototallyfakeemail.com	Social Justice/ Gender Equality	http://www.colorado.edu/cue/

CU ENGAGE

Add Organization ▶

Edit Organization ▶

Add User

Make User Inactive

Make Organization Inactive

Add Organization

Organization Name:	Contact Name
Main Contact:	Contact Name
Contact's Email:	Email Address
Organization Goals:	Goals
Organization Website:	Goals

Submit & Create

Make User Inactive

UserId

Admin UserID

Admin Password

Deactivate User

Are you sure you want to deactivate this User?

No | Yes

Add User

Select Organization ▼

UserId

user email

Optional* other organization affiliations

Create User

Are you sure you want to create this User?

No | Yes

Are you sure you want to create this organization?

No | Yes

Make Organization Inactive

Select Organization ▼

Admin UserID

Admin Password

Create User

Are you sure you want to deactivate this Organization?

No | Yes

CU ENGAGE

Ms. Mai Naym

Email: MaiNaym@colorado.edu

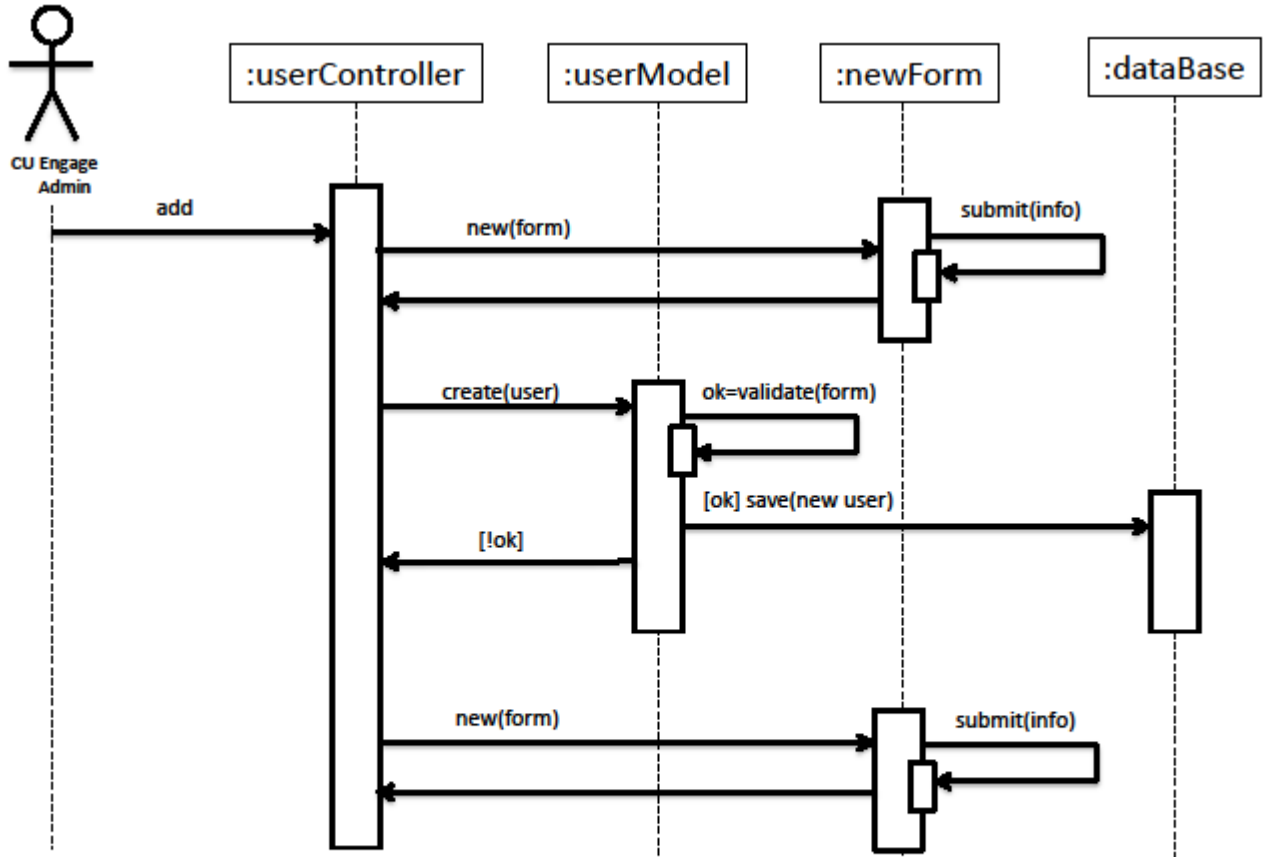| Organizations I am Affiliated With	Websites
Pig Cannons 'R' Us	www.Whenpigsfly.com
Orbital Doom Solutions	http://DeathfromSpace.org
Coalition for Bears with Jet-Packs	www.BearsBelongInTheSky.com
LaserShark Inc.	www.FriggenLazerbeamz.com

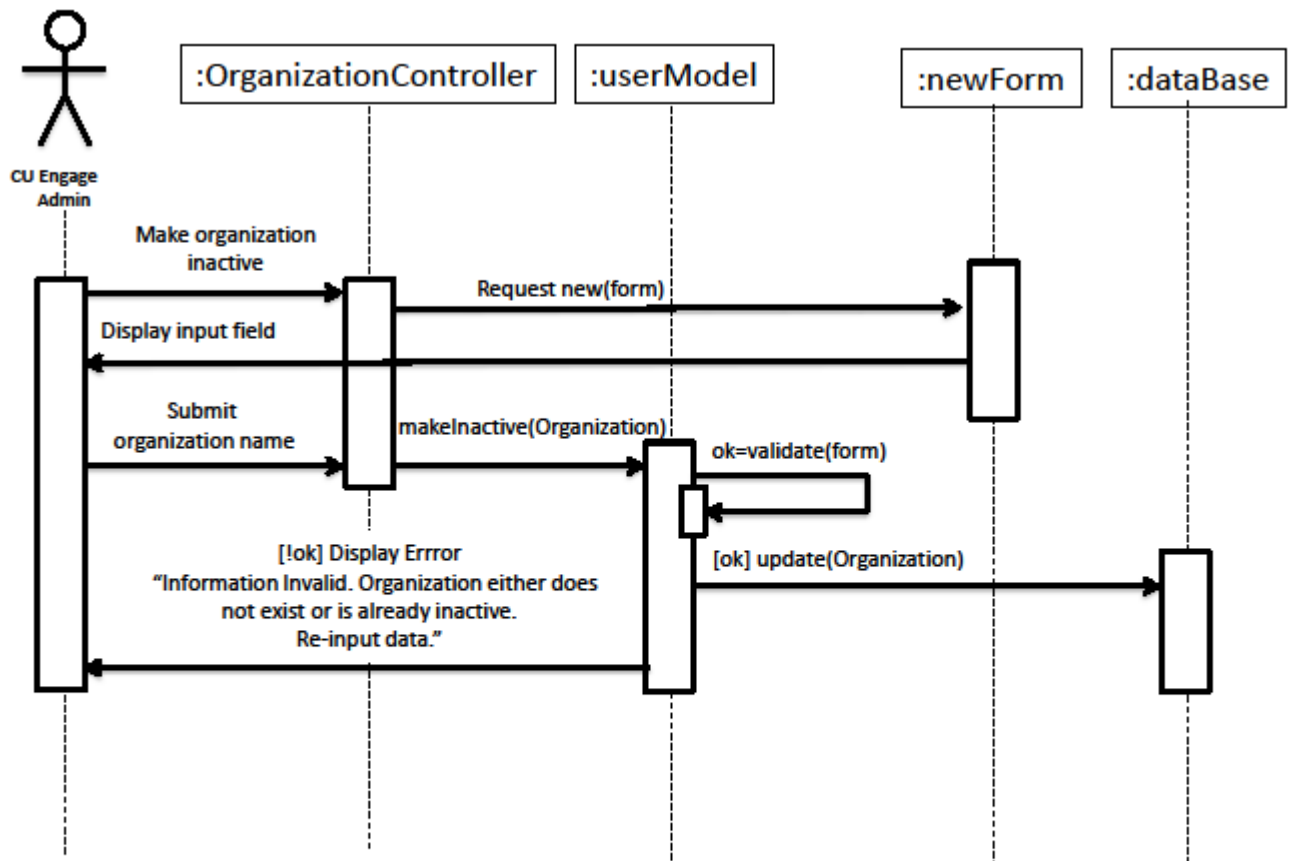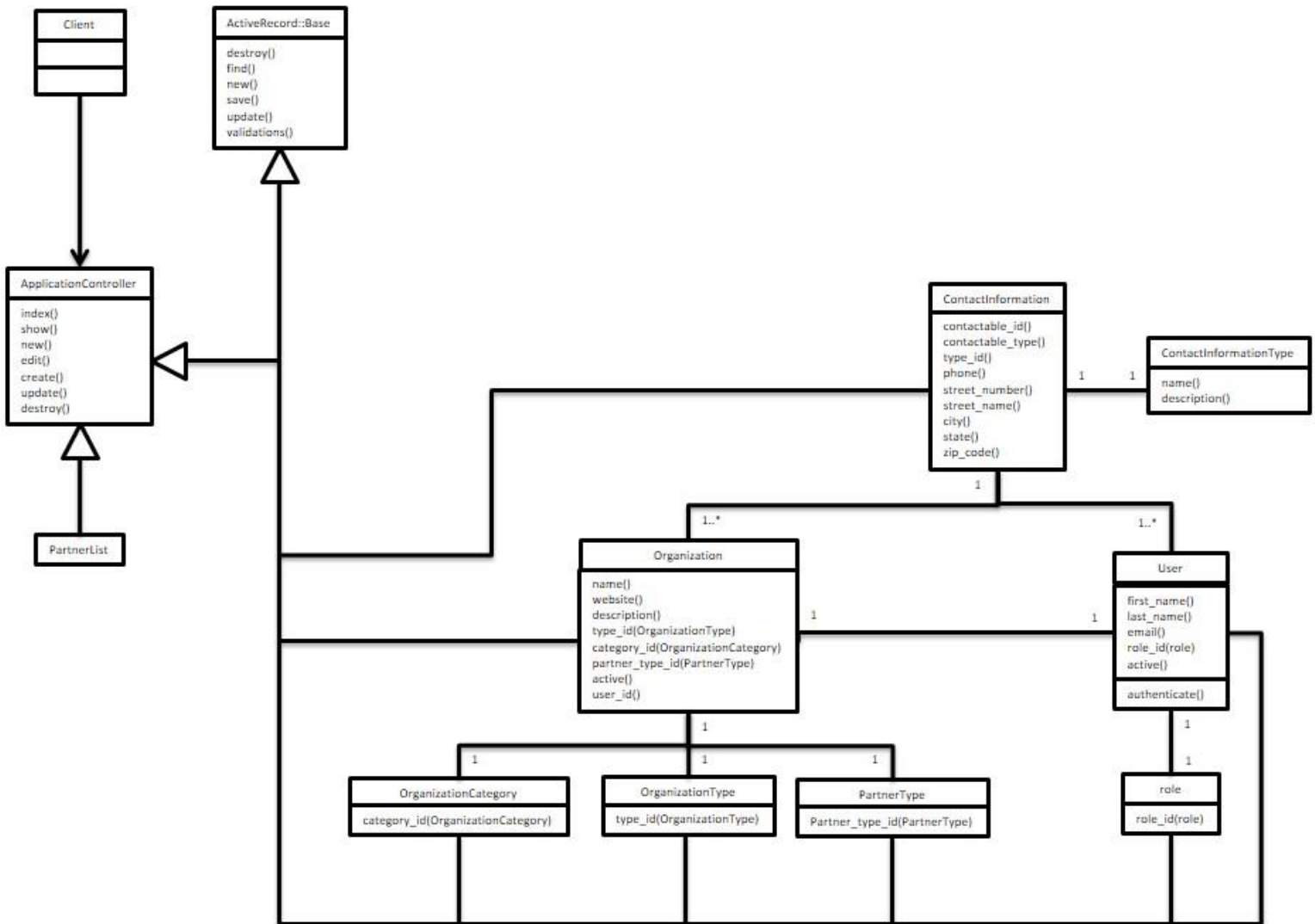## User Interactions (sequence diagrams):

Add Organization:
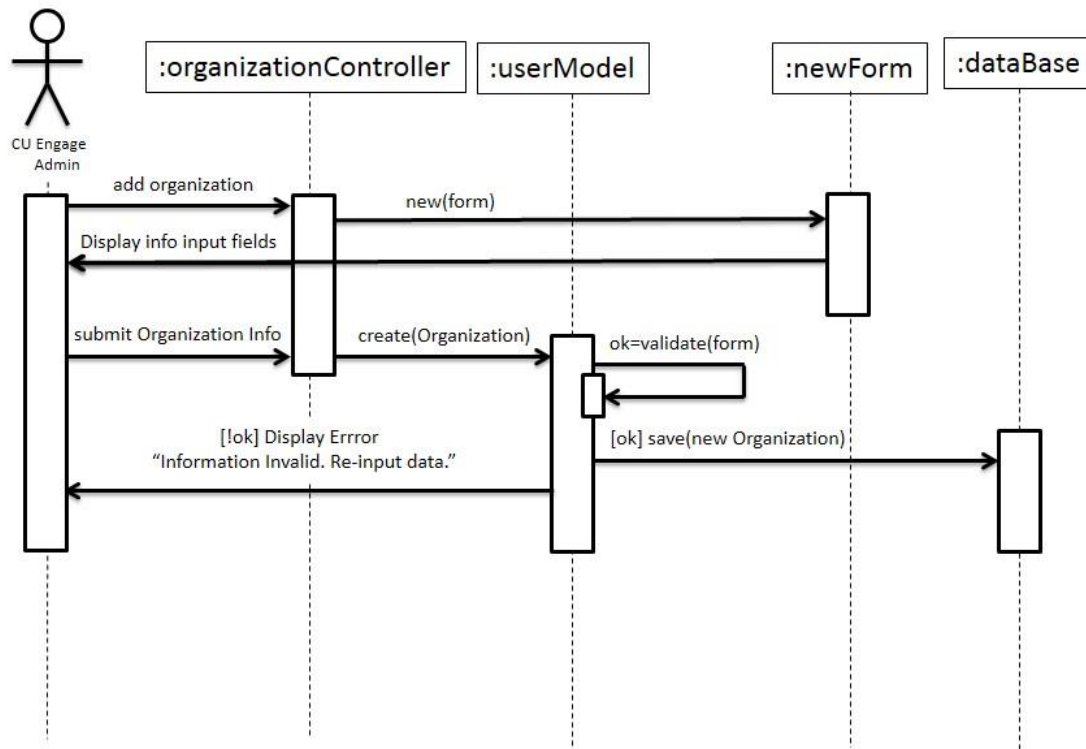
Add User:

Make Organization Inactive:

Class Diagram:

Note: Organizations (Program = On-Campus, Partner = Off-Campus)