Operational Concept Description (OCD)

Improving Thai CDC

Establishing a New Client/Donor/Partner Communications

&

Project Tracking Tool Development

Team #:01

Team Members and roles:

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Version History

Date	Author	Version	Changes made	Rationale
09/28/2011	VP	1.0	Initial OCD	 Creating Operational Concept Definition (OPD)

Version: 1.8

Version Date: 12/05/11

Date	Author	Version	Changes made	Rationale
10/14/2011	VP	1.3	 Fixed bugs Updated benefits chain diagram Updated the system boundary diagram Updated business workflow diagrams 	 For clarity and correctness Improved on the previous diagram to so has to make it more clear Added more detail To updated design with UML 2.0
10/20/2011	VP	1.4	 Added more detail to Table 1: Success-Critical Stakeholders Updated Figure 2: System boundary diagram Updated Figure 3: New Contact Management System Workflow Updated Figure 4: New Mass-Mailing System Updated 3.2.1 Capability Goals chart 	 To clarify the participation of each stakeholder To have consistency with SSAD To show a better flow of how the new contact management system works Showing the correct flow of the mass-mailing system since we have a better understand of salesforce Since we are more clear on what is achievable given the time constraint
10/24/2011	VP	1.5	 Added more detail to benefits chain diagram Updated the system boundary diagram's support infrastructure Updated capability goals 	 To specify more initiatives To better show what is needed to support the system To better reflect what the capabilities of the system
11/07/2011	VP	1.6	 Added more detail to benefits chain diagram Updated the current business workflow Updated the new business workflow Updated the element relationship diagram 	 To specify more initiatives To clarify the current workflow To added more detail to the new workflow and make it look less like a usecase To better reflect the system
11/21/2011	VP	1.7	 Updated the roles of team members Figure 7: New workflow for mass mailing system 	 To reflect the new roles of the team members To better reflect the new mass mailing system using the templates
12/05/2011	VP	1.8	 Updated section 1.2 Updated Figure 7	 To explain update the status of OCD To better reflect the mass mailing system of the new system

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1. Introduction

1.1 Purpose of OCD

This document provides the shared visions and goals of the stakeholders for Improving Thai CDC project. The success-critical stakeholders are the USC student development team, Maria Lam, Alexander Holsheimer, Chanchanit Martorell and the staff and interns or volunteers of Thai CDC. Since this system is for internal use only, the role of users and maintainers will be fulfilled by the staff and interns. For development we will use NDI/NCS approach since most of the functionalities that are required by the client are conveniently provided by multiple NDI/NCS solutions. We could follow agile process but the client would like to see that development of product is completed quickly since they are currently using a rudimentary system. They also do not want to spend much in development of the product nor in maintaining the product therefore NCI/NCS process works best.

1.2 Status of the OCD

The status of the OCD is currently at the version number 1.8 in the Development Phase. The OCD is completed with errors that were found in version 1.5 and 1.6. The new workflow diagram for mass mailing has been updated to address to better reflect the system. The project is in its transition state and ready for the client to take over.

2. Shared Vision

2.1 Success-Critical Stakeholders

Table 1: Success-Critical Stakeholders

Stakeholder	Authorized Representatives	Organization	Relation to Benefits Chain
Client	Maria Lam, Alexander Holsheimer, Chanchanit Martorell, other members of Thai CDC staff	Thai CDC	-Provide training to new Thai CDC members -Provide information and feedback to the development team
Intern/volunteer	N/A: anybody who applies to volunteer or intern at Thai CDC	Thai CDC	
Developer	Team #: 01 - Brandon Foster, Ding Li, InoMantaring, Katelyn Swift-spong, Vishal Punjabi, Yi Li, Charles Muckenthaler	USC	-Develop the system -Provide training to Thai CDC staff in using the new system

2.2 System Capability Description

- Cloud-based system to help save time for those in leadership and management roles by
 - o allowing remote access
 - o allowing after-hour client access
 - providing central location of data
 - o more organized system of data storage
- By using this new system, Thai CDC will have more time and resources to better manage the
 details of events, fundraising, donations, and projects.
- Will enhance Thai CDC's capabilities of fund raising by allowing mass mailing.
- Mass mailing feature would also allow Thai CDC to have a more intimate relationship with its donors and in turn expand its donor base by allowing to better target customers faster.

• Finally, this entire project helps Thai CDC accomplish their mission of empowering immigrant populations in the area of Hollywood, specifically those of the Thai ethnicity.

2.3 Expected benefits

- Centralized and organized database which is easy for Thai CDC staff to use and accessible remotely
- Time saved specifically of those in leadership and management roles who are in charge of details of event, mailing, fundraising, and donations
- Increase efficiency of fundraising, communication goals
- Enhanced fund raising capacity; increased funds for organization
- Empower immigrant populations in the area of Hollywood (specifically of Thai ethnicity)

2.4 Benefits Chain

Stakeholders: Development team, Thai CDC staff, Thai CDC interns

Initiative: First the system needs to be developed by the development team. Three issues need to be addressed by the development team. They need to create a database to store Thai CDC's clients contact information. To make the system more useful for the Thai CDC staff and interns, the development team needs to make a user-friendly, intuitive Graphical User Interface (GUI). In addition the team needs to develop a project tracking tool and a mass mailing feature. The Thai CDC staff and interns will need to be trained how to use the database to store, retrieve, and modify client contact information. They will also have to be trained in how to use the project tracking tool. Training the Thai CDC staff and interns will allow for adoption of the new system and easier/smoother transition to the new system.

Contribution:

- Centralized and organized storage of client contact information
- An intuitive system to access client contact information
- Easy and remote access to the client contact information
- Track project progress and increase internal communication about projects
- More time for other tasks
- Faster growth of donor base
- More funds to help people

Outcome:

- Centralized and organized database which is easy for Thai CDC staff to use and accessible remotely
- Time saved specifically of those in leadership and management roles who are in charge of details of event, mailing, fundraising, and donations

- Increase efficiency of fundraising by speeding up time consuming activities and also increase internal communication
- Enhanced fund raising capacity; increased funds for organization
- Empower immigrant populations in the area of Hollywood (specifically of Thai ethnicity)

Assumption:

- UI friendly interface will be suitable for Thai CDC staff to use
- Project tracking will increase internal communication and help finish projects faster
- Mass mailing will increase number of donors/clients

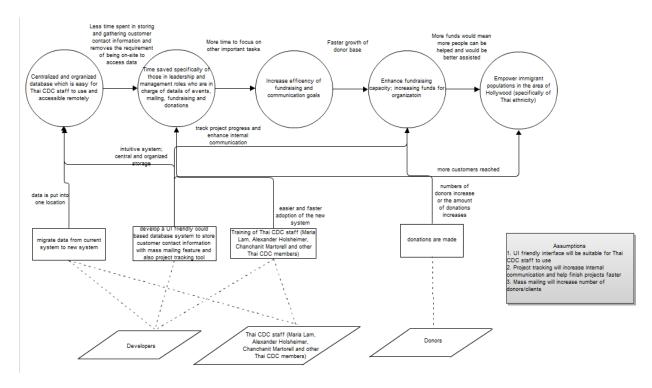


Figure 1: Benefits Chain Diagram of Project Tracking, Mass Mailing, and Central Storing System

2.5 System Boundary and Environment

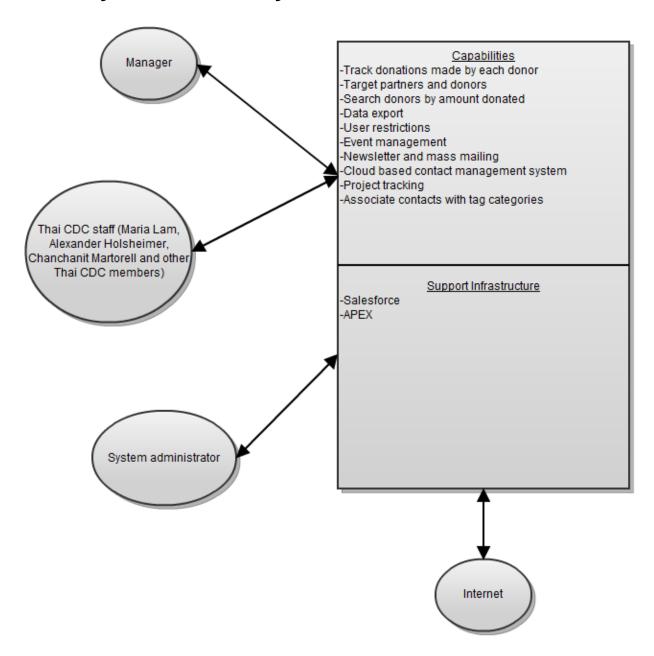


Figure 2: System Boundary and Environment Diagram of Project Tracking, Mass Mailing, and Central Storing System

3. System Transformation

3.1 Information on Current System

3.1.1 Infrastructure

The current system of the client is rudimentary. Most of the data that is used on a day-to-day basis is stored in Microsoft Excel files. The contact information is shared between staff via emails. There exists a Microsoft Access system to store and retrieve data, but it was only used and updated by IT interns.

3.1.2 Artifacts

- Microsoft Access
 - o Microsoft Access system that holds client contact information
- Microsoft Excel
 - Microsoft Excel spreadsheets that is maintained separately by each Thai CDC staff member
- Rolodex
 - Rolodex is used by each Thai CDC staff member to maintain their contacts on a daily basis
- Outlook/Google
 - o E-mail contact database used individually by each Thai CDC staff member

3.1.3 Current Business Workflow

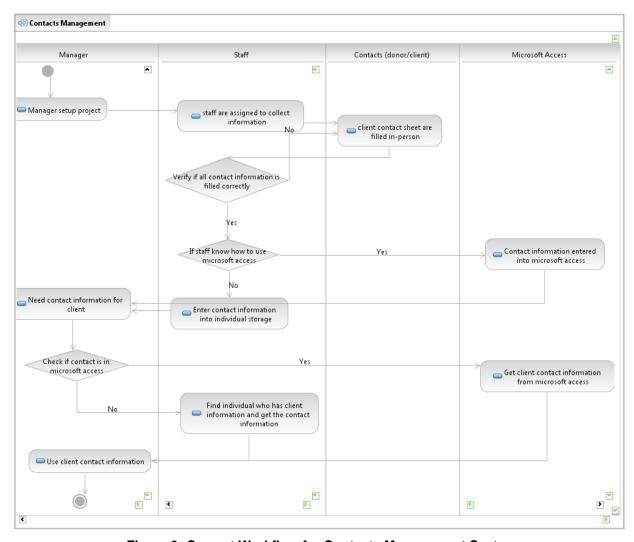


Figure 3: Current Workflow for Contacts Management System

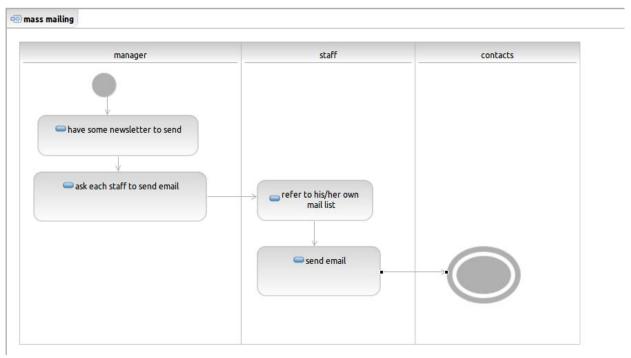


Figure 4: Current Workflow for Mass Mailing

3.2 System Objectives, Constraints and Priorities

3.2.1 Capability Goals

Capability Goals	Priority Level
OC-1 Tracking capabilities: The system should have a way to track	Should have
donation amounts for each donor	
OC-2 Targeted information: Provide partners and donors information	Must have
specific to interests including upcoming events, fundraisers, and functions	
OC-3 Search contacts based on donation: Search contacts based on	Must have
donation history (date donated, amount donated, to what events	
donated)	
OC-4 Back-up capabilities: Ability to export data so that it can be	Must have
migrated to a different server	
OC-5 User restrictions: The system should afford different levels of	Should have
access to users (e.g. managers, interns, supervisors, etc)	
OC-6 Event management: Efficient control of event management;	Should have

including RSVP configuration, sending out mail invites, email, etc	
OC-7 Newsletter and mass mailing: The system will have newsletter/mass-mailing capabilities	Must have
OC-8 Contact management: System with cloud-based Customer Relationship Management (CRM)	Must have
OC-9 Project tracking: Project tracking utility should have all of the fields depicted in Alex's (Thai CDC client) project tracking sketch	Should have
OC-10 Contact tags: Have the ability to add categories and associate contacts to that particular category	Must have

3.2.2 Level of Service Goals

Table 2: Level of Service Goals

Level of Service Goals	Priority Level
LOS-1 Concurrent users: The system will support at least 10 users at	Must have
the same time (users defined as having different user accounts)	
LOS-2 Size of database: System must be able to support information	Must have
for at least 4000 contacts	
LOS-3 After-hours access: System must support after-hours access	Must have
for users except during system outages and system maintenance	
(default level of access for cloud based CRM)	
LOS-4 Response time: Response time of about 5-10 seconds for	Should have
complicated tasks	
LOS-5 Security: System will have default level of security for a	Must have
typical cloud based CRM	

3.2.3 Organizational Goals

OG-1: Decrease time spend collecting client contact information by automating this process

OG-2: Enhance communication with clients and donors by filtering them by interests and other keywords for mass-mailings, event invitations, and donation requests

OG-3: Enhance communication with donors by keeping a history of donation amounts and times

OG-4: Reduction in duplicate emails sent to contacts by storing contacts for entire organization in one location.

OG-5: Better project management by using the project tracking tool and letting everyone in the organization see what is going on.

3.2.4 Constraints

CO-1 Less than \$500/year: The system should cost less than \$500/year to maintain. Ideally it will be free.

CO-2 Supported by major browsers: The tool should be supported by the following browsers (latest stable release): Firefox, IE, Safari, and Chrome.

3.2.5 Relation to Current System

Table 3: Relation to Current System

Capabilities	Current System	New System
Roles and Responsibilities	Each staff member keeps their contacts stored separately, and is individually responsible for sending mailings to those contacts. There is also one person who is in charge of storing and using the Access database. Project tracking is the responsibility of each individual	Contacts are stored in a shared database, so all staff are responsible for updating it. Mass mailings can be sent to all relevant contacts at once rather than each staff member sending mailings separately. Project tracking can now be viewed by everyone in the organization.
User Interactions	working on a project. Staff use outlook for sending mass mailings and managing contacts. Outlook contacts are not organized in any way. To use group contacts, the staff member must coordinate with the Access database manager in order to get	Staff with access can easily look up contacts based on interests or other categories and send mass mailings. Projects can be tracked using a standard interface.

	the contact information. Project tracing is done differently for all	
	projects.	
Infrastructure	All organizational contacts were stored in an Access database only accessible from one computer. Individuals had their own contacts in Outlook.	All organizational contacts are accessible through a cloud-based system on a thin-client.
Stakeholder Essentials and Amenities	The staff had a way of managing contacts but no way of coordinating among themselves. Project management was done separately for each project.	The staff can use a central database of contacts. They can also track and follow projects.
Future Capabilities	None	More advanced and customized project tracing and contact management can be added.

3.3 Proposed New Operational Concept

3.3.1 Element Relationship Diagram

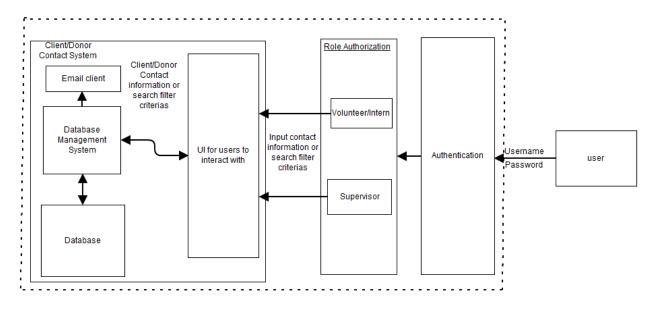


Figure 5: Element Relationship Diagram of Client/Donor Contact System

3.3.2 Business Workflows

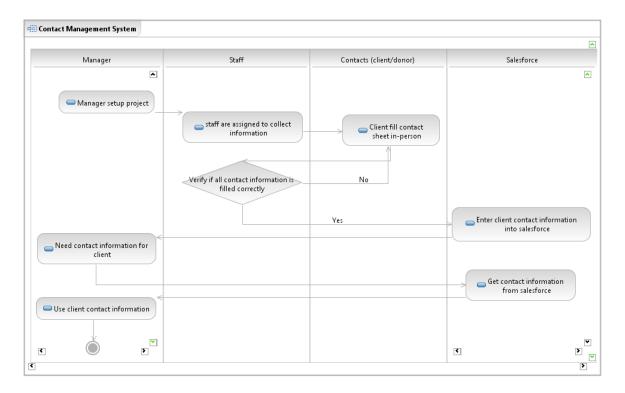


Figure 6: New Workflow for Contacts Management System

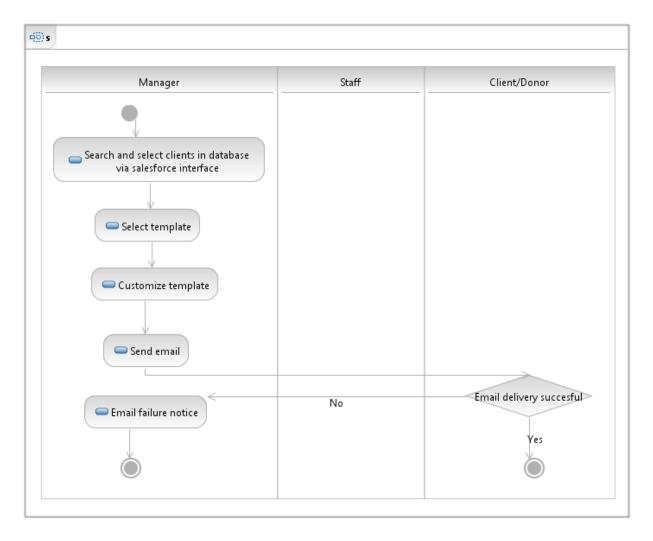


Figure 7: New Workflow for Mass Mailing

3.4 Organizational and Operational Implications

3.4.1 Organizational Transformations

Since the new system will be more organized and easier to use, Microsoft Access will not be needed anymore. One of the goals in developing the new system is that there should be no cost associated in developing and maintaining the system. Therefore the system will be developed so that it is easy enough to be maintained by the current Thai CDC staff. The use of this new system will not affect the current structure of Thai CDC. They will not have to hire or remove anyone due to the usage of the new system. In addition since the data will be available online in a central database, the use of Rolodex and e-mail database will be eliminated. This might reduce the cost to the organization in term of time that the Thai CDC staff takes to store a contact or search for a contact.

3.4.2 Operational Transformations

The new system will make any interactions dealing with client/donor information more efficient leading to a less time wasted by those in leadershipand management roles. The mass mailing feature will allow Thai CDC staff to keep in contact with their customers easily. The client/donor storage system and the mass mailing feature will reduce the wasted time and should help increase the number of clients/donors for Thai CDC. The new system will also make project tracking easier and help increase internal communication about projects.