

Operational Concept Description (OCD)

REFERsy.com

Team No.10

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Version History

Date	Author	Version	Changes made	Rationale
10/11/2014	CL, GH, FZ	1.0	<ul style="list-style-type: none">• Original template of OCD	<ul style="list-style-type: none">• Initial draft of OCD
10/19/2014	CL, GH, FZ	2.0	<ul style="list-style-type: none">• OCD version 1.0	<ul style="list-style-type: none">• Change business workflow• Modify organizational transformations• Change system boundary and environment diagram• Modify the LOS• Modify the result chain
12/01/2014	CL, GH	2.1	<ul style="list-style-type: none">• OCD version 2.0	<ul style="list-style-type: none">• Change benefits chain• Change artifacts table• Change system boundary environment• Change capability goal table
12/06/2014	GH	2.2	<ul style="list-style-type: none">• OCD version 2.1	<ul style="list-style-type: none">• Change the system boundary and environment diagram

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1. Introduction

1.1 Purpose of the OCD

This document provides the shared visions and goals of the stakeholders of the REFERsy.com project. The success-critical stakeholders of the project are Rigo Garcia, as the project owner; the job seekers, as users; USC csci577a fall 2014 team No.10, as the developers and maintainers.

1.2 Status of the OCD

The status of the OCD is currently at the 1.0 version in the development phase. The main aim of the REFERsy.com project has been re-evaluated to be establishing a job searching site which allows users to login with Facebook, LinkedIn, and G+ and find available jobs from the referrals of their social network friends. It is the initial draft that describes System Objectives, Constraints, Capabilities and priorities. All sections are complete, ready to be included in the Draft Foundations Commitment Package.

2. Shared Vision

Table 1: The Program Model

Assumption			
<ul style="list-style-type: none"> • There is a need for a better social/reference system. • Job seekers dislike the current way of finding jobs. 			
Stakeholders (Who)	Initiatives (What)	Value Propositions (Why)	Beneficiaries (For Whom)
<ul style="list-style-type: none"> • Developers • The client 	<ul style="list-style-type: none"> • Develop system • Join different affiliate programs of job-searching sites • Become developer partner with social networking sites • Develop marketing campaign • Demo system to potential users 	<ul style="list-style-type: none"> • Create a better reference system than LinkedIn • Enable/increase the ability of finding jobs(makes searching for them a bit easier) • Take advantage of social websites rather than solely LinkedIn • Increase the number of people who can refer job seekers 	<ul style="list-style-type: none"> • Job Seekers • Recruiters / Companies
Cost		Benefits	
<ul style="list-style-type: none"> • Development Cost • Maintenance Cost 		<ul style="list-style-type: none"> • Increase chance of being hired • Increase the number of possible referee • Decrease hours spent on applying for jobs 	

2.1 Benefits Chain

Visual Paradigm Standard Edition (University of Southern California)

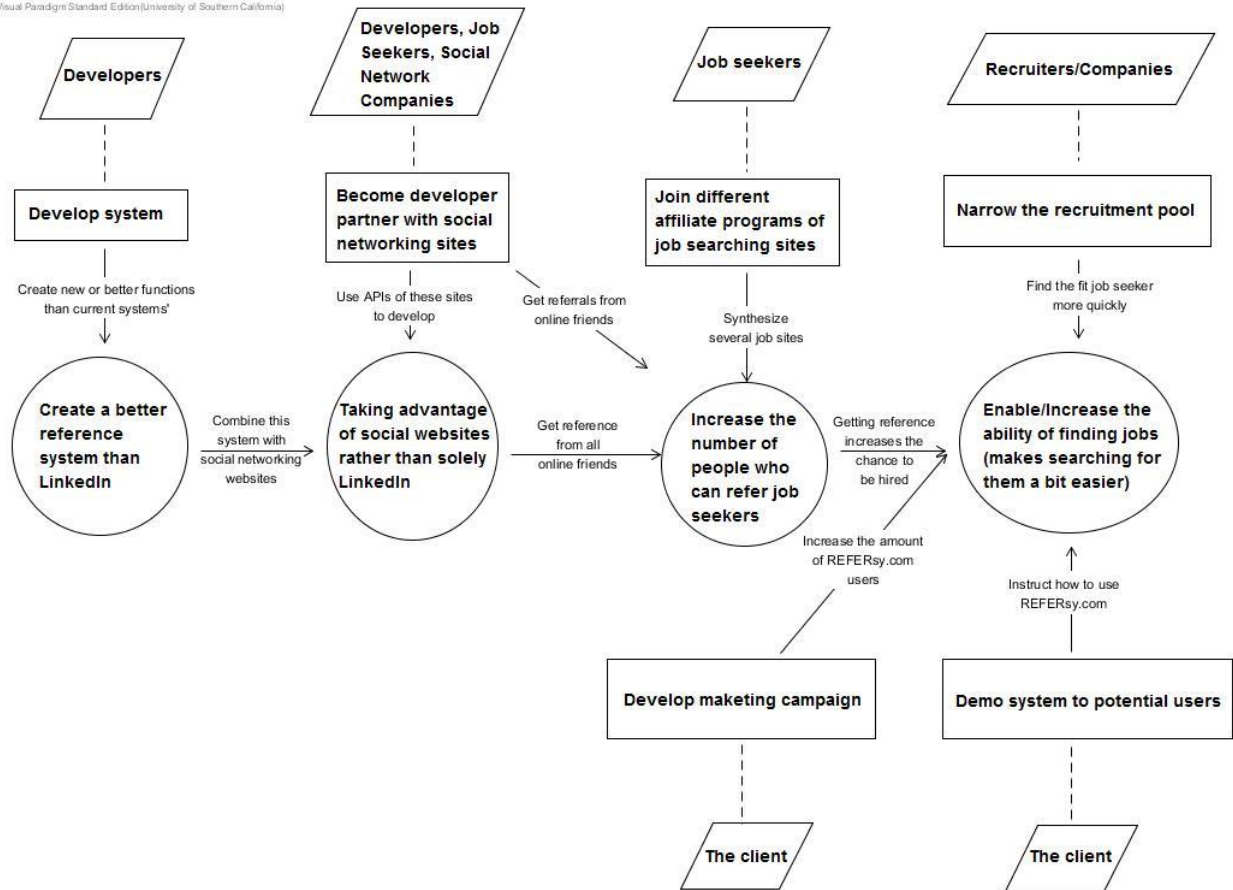


Figure 1: Benefits Chain Diagram of REFERsy.com

2.2 System Capability Description

The client Rigo needs an easier, more integrated social/reference system to increase the probability of getting job offers. The proposed web application-REFERsy.com will give us a job social reference system similar to LinkedIn that will help job seekers ask referral requests from their friends in different social media such as Facebook, LinkedIn and Google Plus. Unlike the template-based system that our main competitor bought, ours would have more job resources which are from Indeed.com, more social friends included and better user friendly experience.

2.3 System Boundary and Environment

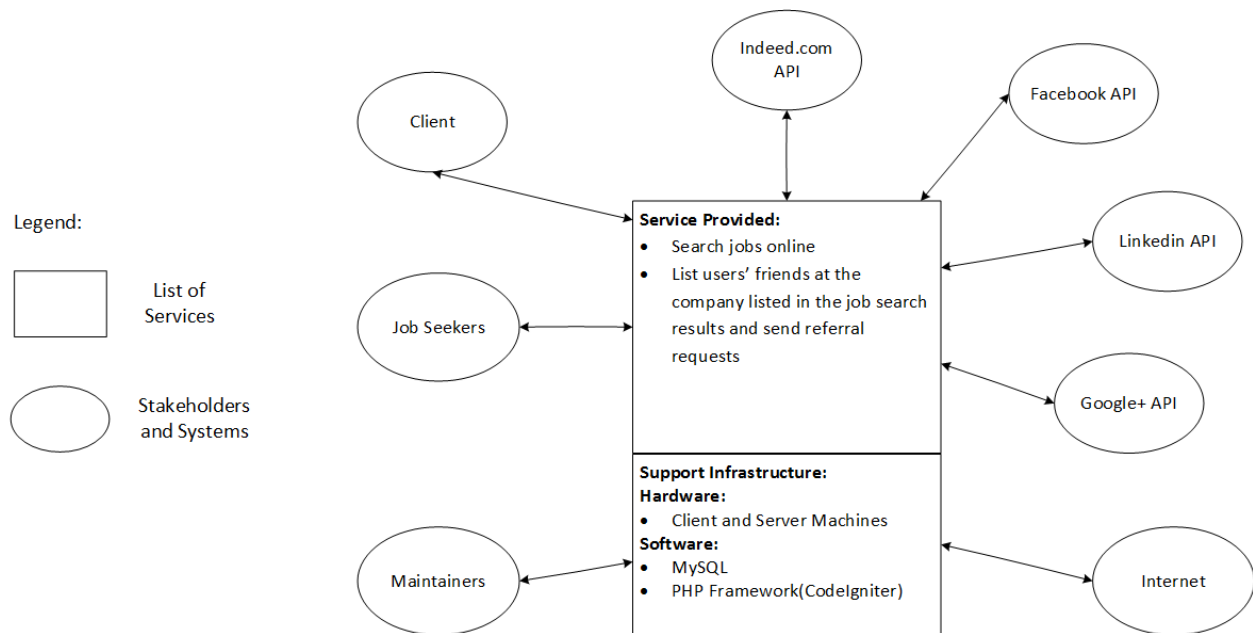


Figure 2: System Boundary and Environment Diagram of REFERsy.com

3. System Transformation

3.1 Information on Current System

3.1.1 Infrastructure

Q: What is the information of the client and the meeting?

A: The client is a MBA student at USC and plans a sole entrepreneurship.

No specific site visited. A client interaction was held in Watt Hall library in USC.

Q: What can the client provide both on hardware and on software?

A: The client has only a paid server(HostGator).

However, he currently has no running software.

Q: What is the client's preference on developing language and database?

A: The client dislikes Java as a primary programming language because of its uncompetitive speed. Based on his request, we may choose PHP, Python or Ruby as the language, and MySQL as database. Other open-source databases are also possible to use. The client is open to any suggestions of languages, databases and open-source softwares.

Q: What APIs should we use? Should we pay for their authorization?

A: All APIs (Indeed, Facebook, Google+, and LinkedIn) are free to use.

3.1.2 Artifacts

Table 2: Artifacts

Artifact	Description	Requested/ Shown/ Received	Planned Delivery Date
HTML files	Web pages that should be sent to users	Requested	May 2015
Database	Database service to store users' data	Requested	May 2015

3.1.3 Current Business Workflow

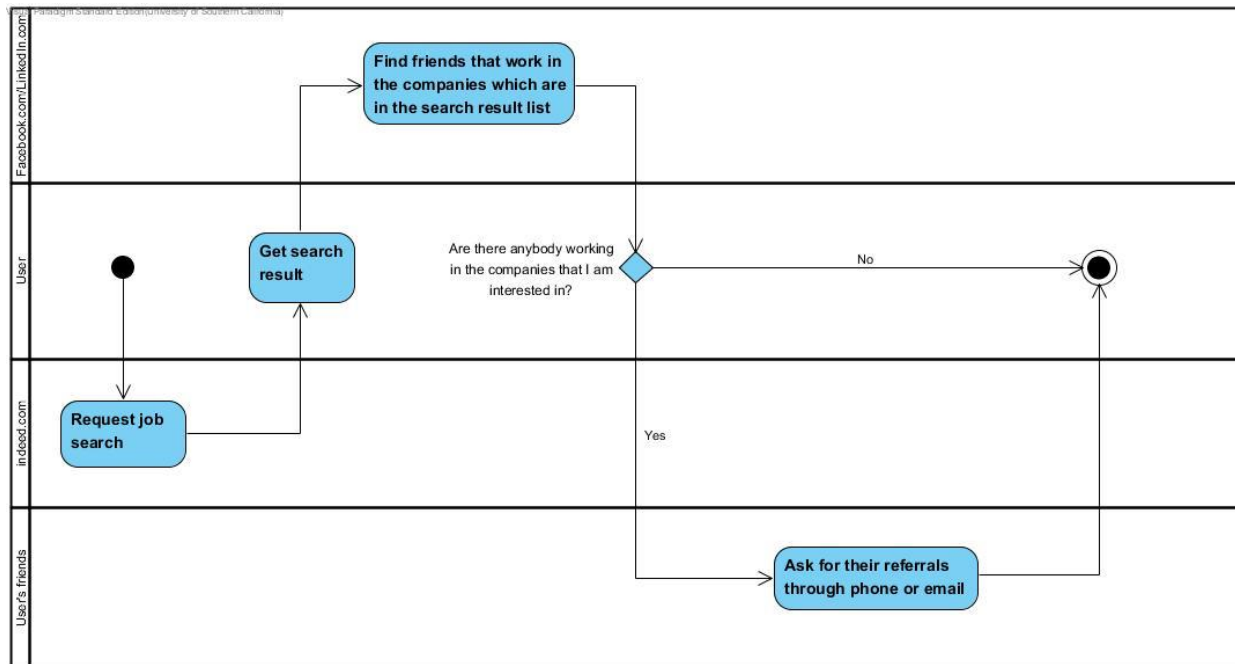


Figure 3: Current Business Workflow Diagram

3.2 System Objectives, Constraints and Priorities

3.2.1 Capability Goals

Table 3: Capability Goals

Capability Goals	Priority Level
OC-1 Job Search: The REFERsy.com system allows job seekers to browse through available jobs at companies within their social network. They can search for jobs by keywords and locations and the system connects to Indeed.com via API and fetch jobs. The job seekers can see if anyone in their social network works at the company listed in the job search result. Also, it prompts the job seekers to create an account with their social network credentials and subscribe to email job notifications based on job searches and locations. Finally, job seekers can mark specific jobs as favorites and save job searches.	Must Have

OC-2 Referral Request: The REFERsy.com system enables job seekers to easily contact someone in their social network for a job referral through email with prefilled message.	Mush Have
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3.2.2 Level of Service Goals

Table 4: Level of Service Goals

Level of Service Goals	Priority Level	Referred WinWin Agreements
LOS-1 Friendly functionality requirement: The surveys delivered to obtain the feedback from the users. 80% of them should satisfy the system's functionality.	Must have	WC_3066
LOS-2 Referral request: Users can send job referral request within 3 operation steps: 1) login 2) search jobs 3) click request button and send job referral requests to their social network friends	Must have	WC_3070
LOS-3 Performance requirement: Maximum number of concurrent users is 1000. Job search results should be loaded within 3 seconds.	Mid Priority	WC_3065

3.2.3 Organizational Goals

OG-1: Create a better reference system than LinkedIn.

OG-2: Enable/increase the ability of finding jobs (make searching for jobs a bit easier).

OG-3: Take advantage of social websites rather than solely LinkedIn.

OG-4: Increase the pool of referring.

3.2.4 Constraints

CO-1: Indeed.com as job searching provider: REFERsy.com must use indeed.com API as the job searching API.

CO-2: Social website requirement: REFERsy.com should use Facebook, LinkedIn, and Google+ as the social website to request user's friends information.

CO-3: Zero Monetary Budget: The selected NDI/NCS should be free or no monetary cost.

3.2.5 Relation to Current System

Table 5: Relation to Current System

Capabilities	Current System	New System
Roles and Responsibilities	N/A	N/A
User Interactions	User search friends that work in the preferred companies manually.	The system will do the searching automatically.
Infrastructure	No infrastructure.	Build a new website with server, database and APIs.
Stakeholder Essentials and Amenities	User are only familiar with the working information from closest friends and therefor may miss the chance to get a referral.	User may get to know the working information from more friends and increase the chance to get referrals.
Future Capabilities	N/A	User can access the working information and ask for referrals from a larger group of friends.

3.3 Proposed New Operational Concept

3.3.1 Element Relationship Diagram

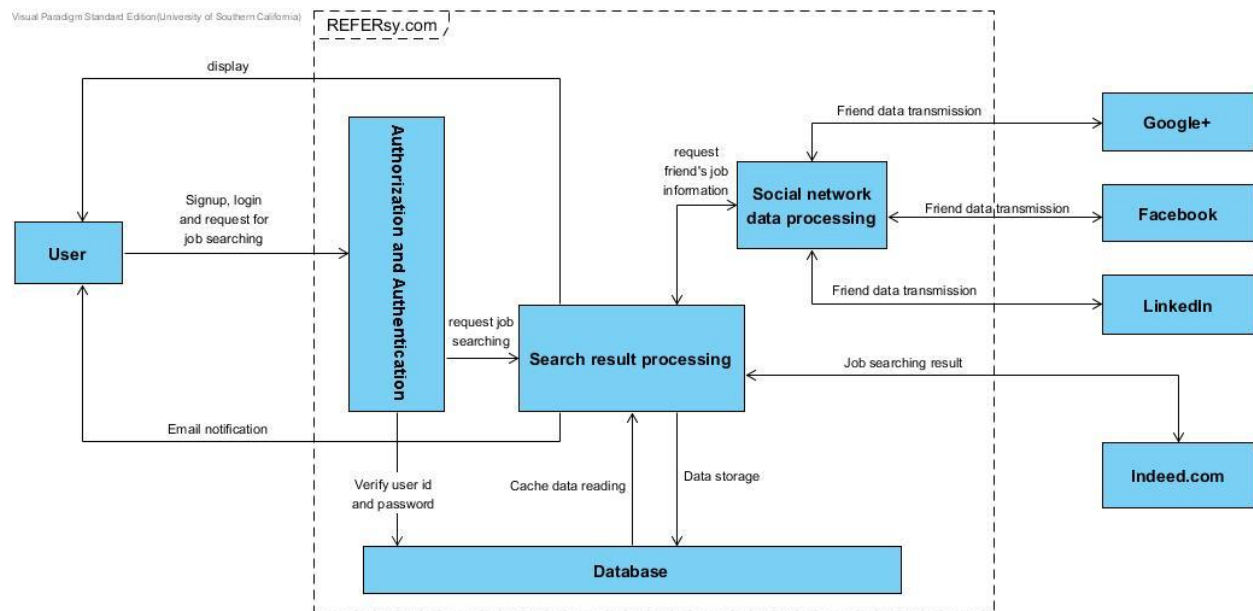


Figure 4: Element Relationship Diagram of REFERsy.com

3.3.2 Business Workflows

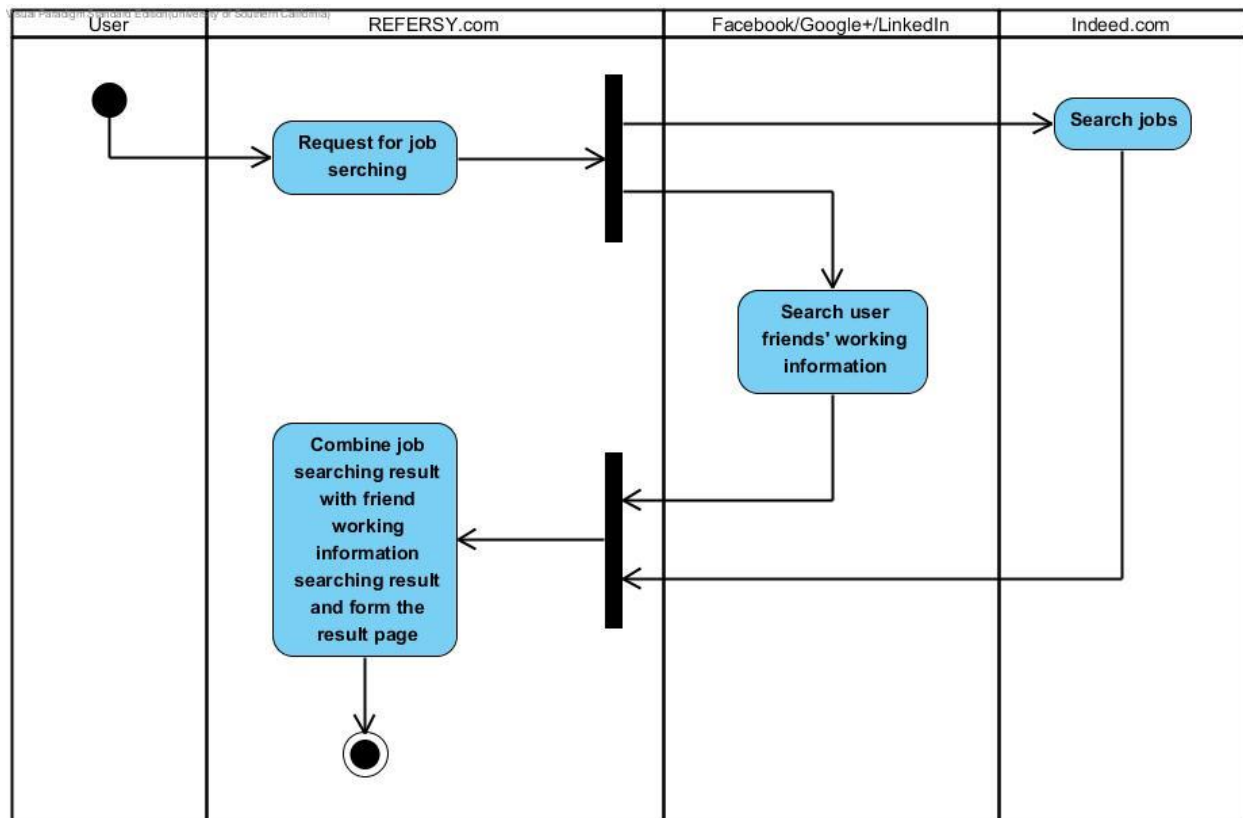


Figure 5: Business Workflow Diagram of REFERsy.com

3.4 Organizational and Operational Implications

3.4.1 Organizational Transformations

- The need to hire web developers to design and implement the web application since the application is nonexistent.

3.4.2 Operational Transformations

- Creating an account which saves their login credentials for different social network sites and authorizing the permission to get user friends' job information.

- Job seekers don't need to manually check their friends' job information from LinkedIn, Facebook or Google+. Job seekers' friends are shown along with the company listed in the search results.
- The option for new potential job seekers to send the referral requests to specific friends.
- The option for job seekers to get new job email notification
- Job seekers can browse through available jobs at companies within their social network