# **Operational Concept Description (OCD)**

We Are Trojans (WAT) Network

#### Team01

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# **Version History**

Date	Author	Version	Changes made	Rationale
10/10/14	ML, PP, SE	0.5	Original template for use	• Initial draft for use
10/18/14	ML, PP, SE	1.0	• Complete all section	• Update information information according to the comment from
			• fixed inconsistency word	the ARB session
10/29/14	SE	1.1	Level of Service	• Level of Service update from Winbook
11/29/14	SE	1.5	Program Model Font Color	• Feedback from ARB
			• Initiative in Program Model	
			Benefits Chain Diagram	
			<ul> <li>System Boundary and Environment</li> </ul>	
			• Table of Artifacts Descriptions	
			<ul> <li>Capability Goals</li> </ul>	
			Document Template	
12/07/14	PP	2.0	<ul> <li>Update the header of the document</li> </ul>	• Update for DCP review
			• Update the document verison	
02/15/15	SE	3.0	• Update the document version	• Update for RDCP review
			• Update in System Boundry	-
04/08/15	SE	4.0	<ul> <li>Update the header of the document</li> </ul>	• For TRR Package Submission
			• Update the document version	
			Update in System boundry	
			• Update in Capability Goals	
			• Update in Section 3.2.5	
04/27/15	SE	5.0	<ul> <li>Preperation for Final Deliverables</li> </ul>	• For AsBuilt package submission
			• Update in Future Capabilities	

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## 1. Introduction

## 1.1 Purpose of the OCD

This document lists out details of win-conditions negotiated among success-critical-stakeholder of the We Are Trojans (WAT) Network. The success-critical stakeholders of the project are Matthew Wong, our client; USC students and staff, as users; Team 1, as a software development and maintenance team.

#### 1.2 Status of the OCD

The OCD is currently in version 5.0 for AsBuilt package submission. We completed all of the section in OCD and also update the information according to the TRR session.

# 2. Shared Vision

**Legend:** Benefits are added to the program model:

**Table 1: The Program Model** 

#### **Assumptions**

- USC students need a central platform to connect, share, and like information with each other
- Reward point system will work as the important incentives for users to join the network

Stakeholders (Who is accountable for the initiatives)	Initiatives (What to do to realize benefits)	Value Propositions (Benefits i.e Why)	Beneficiaries (Who derives value)
<ul> <li>Developers</li> <li>Maintainers</li> <li>Clients</li> <li>Gift/Book stores</li> </ul>	<ul> <li>Develop the system</li> <li>Maintain the system</li> <li>Advertise the system to USC community</li> <li>Partner with schools</li> <li>Negotiate deals with on-campus bookstore/gift store</li> <li>Use the system functionalities</li> </ul>	<ul> <li>Increase         camaraderie         between Trojans</li> <li>One-stop shop to         answer any USC         related queries</li> <li>Increase         communications         between students         across schools</li> </ul>	<ul><li>USC students</li><li>USC alumni</li><li>USC faculty</li></ul>
<ul> <li>Cost (Cost factors)</li> <li>Development costs</li> <li>Maintenance costs</li> <li>Advertising/Marketin</li> <li>Web server, Web host</li> </ul>	•	<ul><li>Benefits (Key performant</li><li>The number of active unetwork increases.</li></ul>	, and the second

#### 2.1 Benefits Chain

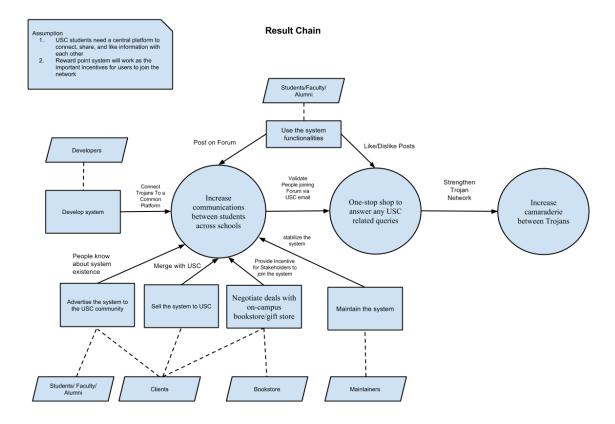


Figure 1: Benefits Chain Diagram of WAT Network

# 2.2 System Capability Description

- The We are Trojans (WAT) Network is a social collaboration website.
- The target customers are USC students, USC alumni, and USC faculty.
- The need or opportunity that will be satisfied by the system.
  - o Increase communication between students across schools
  - o Increase camaraderie between Trojans
  - o One-stop shop to answer any USC-related queries
- A compelling reason for the customer to buy/use the system.
  - o This system will facilitate the users to ask questions to other students by just logging into the system and searching for the existing thread or post a new one in the forum.
  - o For a user who contributes to the We Are Trojans system, he or she will get WAT points which can be redeemed for items/giftcards.
  - O All questions can be answered in a single place.
- The closest competitor:
  - o D2L forums
  - o Piazza
  - Facebook
- The system's primary differentiation from, or benefit over, the closest competitor or alternative approach, if there are competitors or alternatives at the time
  - WAT Network rewards users who contribute to the system by giving them WAT points.

# 2.3 System Boundary and Environment

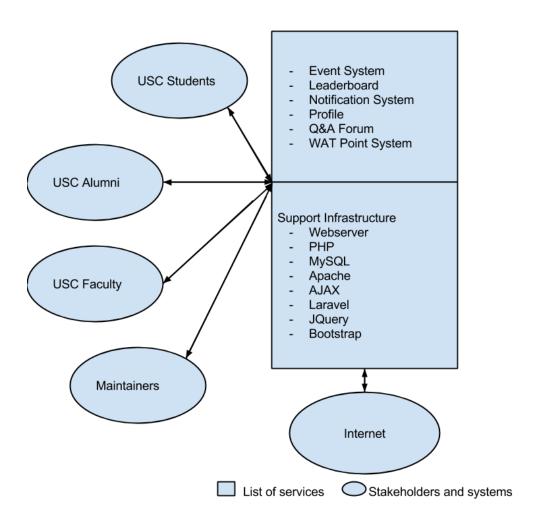


Figure 2: System Boundary and Environment Diagram of WAT Network

# 3. System Transformation

# 3.1 Information on Current System

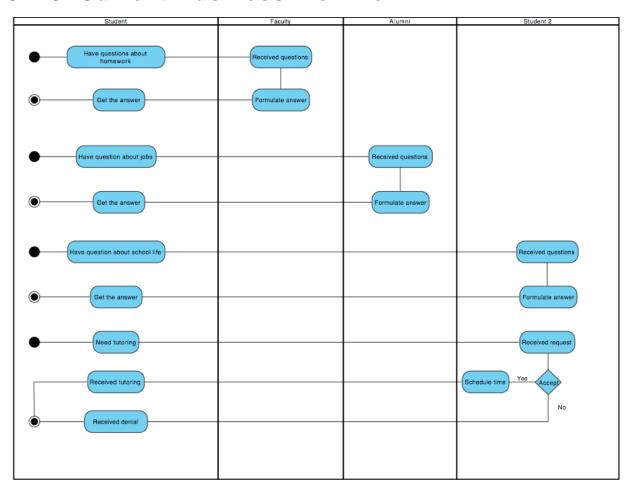
#### 3.1.1 Infrastructure

There is no current infrastructure.

#### 3.1.2 Artifacts

Currently, there are no artifacts. However, we will probably be using artifacts listed below.

#### 3.1.3 Current Business Workflow



**Figure 3: Current Business Workflow** 

# 3.2 System Objectives, Constraints and Priorities

#### 3.2.1 Capability Goals

The Priority Level ranges from 1-10; 1 is the highest level priority and 10 is the lowest level.

**Table 2: The Capability Goals** 

Capability Goals	Priority
OC-1 Q&A Forum	1
OC-2 WAT Point System	2
OC-3 Notification System	
OC-4 Profile	
OC-5 Leaderboard	
OC-7 Event System	

#### 3.2.2 Level of Service Goals

**Table 3: Level of Service Goals** 

The Priority Level ranges from 1-10; 1 is the highest level priority and 10 is the lowest level.

Level of Service Goals	Priority Level	Referred WinWin Agreements
LOS-1: The system shall be user-friendly and intuitive.	1	WC_3253
LOS-2: The system shall render correctly on mobile platforms.	2	WC_3256

## 3.2.3 Organizational Goals

- **OG-1:** Increase the connection among students by providing them with an easy-to-use forum.
- **OG-2:** Increase the credible information via like/dislike ratio.
- OG-3: Increase the speed at which the users receive answers to queries via tracking the number posts on the forum.
- **OG-4:** Increase USC brand via estimating the increase in the number of active users.
- **OG-5:** Reduce workload of USC staff to answer students question by providing an alternative way to answer the questions.

#### 3.2.4 Constraints

CO-1: Zero Monetary Budgets: The COTS or NDI/NCS should be free of charge.

**CO-2: Only Web-based platform:** Users can only use the platform via web right now. **CO-3: Only non-negative points on a post:** Points on each post cannot be negative.

# 3.2.5 Relation to Current System

**Table 4: Relation to Current System** 

Capabilities	Current System	New System
Roles and Responsibilities	<ul> <li>USC Students         ask, and answer         question         tutoring</li> <li>USC Alumni         provides information         about career</li> <li>USC Faculty         provides USC         information</li> </ul>	<ul> <li>USC Students         ask, and answer question         tutoring</li> <li>USC Alumni         Provides information about career</li> <li>USC Faculty         provides USC information</li> <li>Moderator         monitoring WAT system</li> <li>IT Staff         maintain WAT infrastructure</li> </ul>
User Interactions	<ul> <li>Asking other User for a favor</li> <li>Asking USC Alumni for career information</li> <li>Asking USC Faculties for USC information</li> </ul>	<ul> <li>Search for an answer for their question.</li> <li>Posting some question in WAT forum and wait for answers.</li> <li>Redeem gift cards/items from the WAT system</li> </ul>
Infrastructure	there are no infrastructures	<ul><li>Webserver</li><li>Database system</li></ul>
Stakeholder Essentials and Amenities	<ul><li>USC students</li><li>USC Alumni</li><li>USC Faculties</li></ul>	<ul> <li>USC students</li> <li>USC Alumni</li> <li>USC Faculties</li> <li>Moderators</li> <li>IT staffs</li> </ul>
Future Capabilities	• Redemption	<ul> <li>According the project scope, redemption system will not be developed.</li> <li>For further capabilities, redemption system can be developed and be integrated with USC to be able to gain more credibility for WAT system and support it with sustainable resources.</li> </ul>

# 3.3 Proposed New Operational Concept

## 3.3.1 Element Relationship Diagram

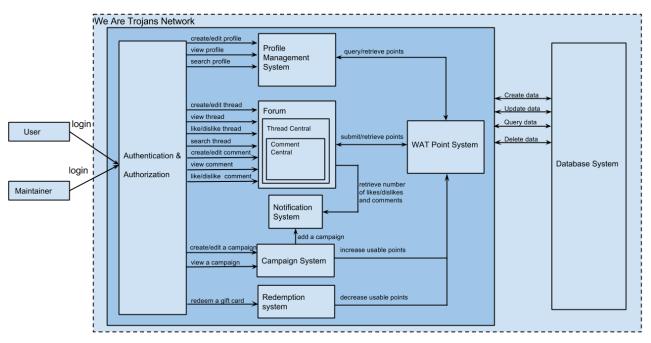


Figure 4: Element Relationship Diagram of WAT system (Architected agile project)

# 3.3.2 Proposed Business Workflow

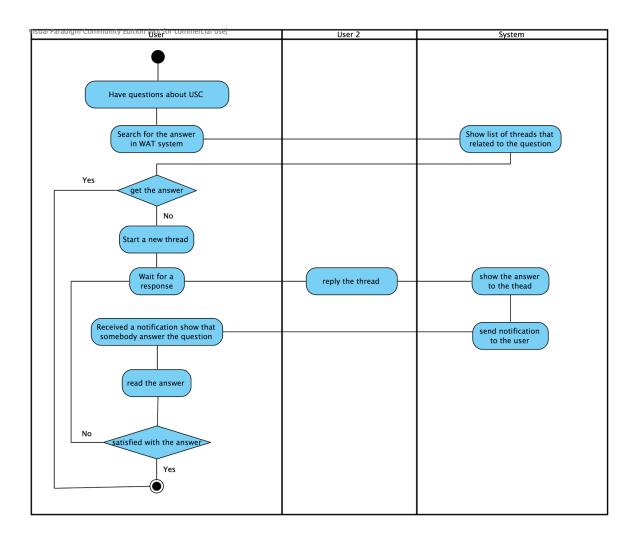


Figure 5: Business Workflow Diagram of WAT System

# 3.4 Organizational and Operational Implications

### 3.4.1 Organizational Transformations

- The need to hire moderators to monitor the system
- The reduction in workload of USC faculty that have to answer USC students' questions.
- The need to have some IT personals to maintain We Are Trojans system.

#### 3.4.2 Operational Transformations

- The option for USC students to ask questions in a common system instead of calling USC staff or asking other students in person.
- Using old items that cannot sell in the USC bookstore in a more useful way by allowing We Are Trojans users to redeem WAT Points for it.
- Having a friendly competition among the USC community by using WAT point systems.