# Life Cycle Plan (LCP)

Cash Doctor 3.0

Team 12

Steven Helferich: Project Manager
Kenneth Anguka: IIV&V
Xichao Wang: Operational Concept Engineer
Alisha Parvez: Life Cycle Planner
Ekasit Jarussinvichai: Requirements Engineer
Kshama Krishnan: Prototyper
Le Zhuang: Feasibility Analyst
Shreya Sharma: Software Architect

# **Version History**

Date	Author	Version	Changes made	Rationale
09/29/14	Steven Helferich	1.0	Completed section 3.3	To evaluate exploration phase requirements
10/13/14	Alisha Parvez	2.0	Updated Sections 1-5	To make an estimate if we can complete the project with the given resources.
				<ul> <li>All milestones added up to the completion for valuation phase</li> </ul>
				• To prepare for foundation phase

# **Table of Contents**

Life Cycl	e Plan (LCP)	i
	History	
Table of	Contents	iii
Table of	Tables	iv
Table of 1	Figures	. 1
1. In	troduction	. 2
1.1	Purpose of the LCP	. 2
1.2	Status of the LCP	. 2
1.3	Assumptions	. 2
2. M	ilestones and Products	. 3
2.1	Overall Strategy	. 3
2.2	Project Deliverables	. 4
3. Re	esponsibilities	. 7
3.1	Project-specific stakeholder's responsibilities	. 7
3.2	Responsibilities by Phase	. 7
3.3	Skills	11
4. A <sub>1</sub>	pproach	12
4.1	Monitoring and Control	12
4.2	Methods, Tools and Facilities	12
5 R4	esources.	14

# **Table of Tables**

Table 1: Artifacts Deliverables in Exploration Phase	4
Table 2: Artifact deliverable in Valuation Phase	
Table 3: Artifacts Deliverables in Foundation Phase	6
Table 4: Artifacts Deliverables in Development Phase	6
Table 5: Stakeholder's Responsibilities in each phase	
Table 6: Skills	
Table 7: Tools being used	
Table 8: COCOMO scale factors	14
Table 9: Module lists and SLOC of each module	
Table 10: Cost Drivers for Search Module	
Table 11:Cost Drivers for Share Module	
Table 12: Cost Drivers for Capture Module	
Table 13:Cost Drivers for Networking Module	

# **Table of Figures**

Figure 1:	COINCOMO	estimate	. 19
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LCP Version 2.0.doc 1 Version Date: 07/30/12

#### 1. Introduction

### 1.1 Purpose of the LCP

The LCP helps in identifying tasks and their corresponding timelines.

The LCP also lists down all the milestones and artifacts delivered according to the phases.

It lists out the strategies to be followed in the project and also the skills required by each team member.

The LCP is documented to provide details as to what is the status of the project and what is the future plan. It lists down the tools and resources being used in the project.

It also defines each stakeholder's responsibilities according to different phases.

In a nutshell, LCP improves the quality of the project by proper planning and also reduces the risk exposure.

#### 1.2 Status of the LCP

The status of the LCP is currently at the Draft Foundations Commitment Package version number 2.0. This is the version that will be delivered to the client. The major changes from Exploration phase are inclusion of phase-wise responsibilities of each stakeholder and milestones and artifacts delivered in each phase.

### 1.3 Assumptions

- The duration of the project is 24 weeks, which are 12 weeks in fall 2014 and 12 weeks in spring 2015.
- The project involves 8 personnel resources.
- Team meetings are held each week to discuss on the future tasks of the project.

LCP Version 2.0.doc 2 Version Date: 07/30/12

#### 2. Milestones and Products

### 2.1 Overall Strategy

This project is following NDI-Intensive ICSM process. The milestone, deliverables according to each phase are:

#### **Exploration phase**

**Duration:** 09/14/14- 10/01/14

**Concept:** The team meets with the client and discuss the requirements. The team figures out the skills needed for this project. It also analyses the current system.

**Deliverables**: Valuation Commitment Package, Client Interaction Report, Project Reports and Plans, Weekly Effort Report, program model, business plan and results chain.

Milestone: Valuation Commitment Review

Strategy: One Incremental Commitment Cycle

#### Valuation phase

**Duration:** 10/01/14- 10/20/14

**Concept:** The team evaluates the risks and prioritize the requirements with the help of winwin negotiations. After that, the high risk item was chosen for prototyping. Both the approaches were followed – horizontal prototyping and vertical prototyping. The horizontal prototype included basic UI design and the vertical prototype included a simple functional demo of a high risk item, i.e. OCR working on android operating system.

**Deliverables**: Draft Foundations Commitment Package, Foundations Commitment Package, Initial Prototype, Project Reports and Plans, Weekly Effort Report.

Milestone: Foundations Commitment Review

#### **Foundations phase**

**Duration:** 10/20/14- 12/08/14

**Concept:** The team will assess the project status. The changes in requirements will be analyzed, and corresponding adjustments will be made. NDI component will be assessed and development software architecture will be designed. Besides, actual functional prototypes will be built. Meetings will continue. Efforts will be reported. Work on OCR will be done so as to create a functional prototype that could work on iOS as well.

**Deliverables**: Draft Development Commitment Package, Development Commitment Package, Initial Prototype, Project Reports and Plans, Weekly Effort Report.

**Milestone**: Development Commitment Review **Strategy**: One Incremental Commitment Cycle

LCP Version 2.0.doc Version Date: 07/30/12

# 2.2 Project Deliverables

# 2.2.1 Exploration Phase

**Table 1: Artifacts Deliverables in Exploration Phase** 

Artifact	Due date	Format	Medium
Client Interaction Report	9/19/2014	.doc, .pdf	Soft copy
Valuation Commitment Package	09/29/2014	.doc, .pdf	Soft copy
• Life Cycle Plan (LCP) Early			
Section			
• Feasibility Evidence Description			
(FED) Early Section			
Project Effort	Every Monday	Text	Bugzilla
Project Plan	Every two weeks on	.mpp	Soft copy
	Wednesday		
Progress Report	Every two weeks on	.xls	Soft copy
	Wednesday		
Program model, business model,	09/21/2014	.docx	Soft copy
results chain diagram			

### 2.2.2 Valuation Phase

Table 2: Artifact deliverable in Valuation Phase

Artifact	Due date	Format	Medium
Prototype presentation	10/03/2014	.ppt	Soft copy
<ul> <li>Draft Foundations Commitment Package</li> <li>Operational Concept Description (OCD)</li> <li>Feasibility Evidence Description (FED)</li> <li>Life Cycle Plan (LCP)</li> <li>System and Software Architecture Description (SSAD)</li> <li>Prototype report (PRO)</li> </ul>	10/13/2014	.doc,.pdf	Soft copy
Foundations Commitment Package		.doc, .pdf	Soft copy
Project Effort	Every Monday	Text	Bugzilla
Project Plan	Every two weeks on Wednesday	.mpp	Soft copy
Progress Report	Every two weeks on Wednesday	.xls	Soft copy

#### 2.2.3 Foundations Phase

**Table 3: Artifacts Deliverables in Foundation Phase** 

Artifact	Due date	Format	Medium
Drafts Development Commitment	12/01/2014	.doc, .pdf	Soft copy
Package			
Development Commitment	12/08/2014	.doc, .pdf	Soft copy
Package			
Project Effort	Every Monday	Text	Bugzilla
Project Plan	Every two weeks on	.mpp	Soft copy
	Wednesday		
Progress Report	Every two weeks on	.xls	Soft copy
	Wednesday		

# 2.2.4 Development Phase

**Table 4: Artifacts Deliverables in Development Phase** 

Artifact	Due date	Format	Medium
Transition package	TBD	TBD	TBD
Project Effort	Every Monday	Text	Bugzilla
Project Plan	Every two weeks on Wednesday	.mpp	Soft copy
Progress Report	Every two weeks on Wednesday	.xls	Soft copy

# 3. Responsibilities

# 3.1 Project-specific stakeholder's responsibilities

The stakeholders only include client, user, maintainer, developer and IIV & V, i.e., the typical stakeholders of CSCI577ab

## 3.2 Responsibilities by Phase

Table 5: Stakeholder's Responsibilities in each phase

	Primary / Secondary Responsibility					
Team Member /	Exploration	Valuation	Foundations	<b>Development-</b>	<b>Development-</b>	
Role				Construction	Transition	
				Iteration	Iteration	
Name: Rob Stehlin	Primary	Primary	Primary	Primary	Primary	
Role: Client	Responsibility	Responsibility	Responsibility	Responsibility	Responsibility	
	- Explain scope	- Assess work	- Provide	- Test system	- Accept the	
	and primary	artifacts and	feedback for	development	training	
	requirement	provide	prototypes	modules	- Prepare for	
	- Contribute to	feedback		- Provide	system	
	the win	- Identify shared		feedback of	transition	
	conditions	vision, goal, and		system features		
	- Clarify the	concepts				
	problems from					
	development					
	team					
Name: Alisha	Primary	Primary	Primary	Primary	Primary	
Parvez	Responsibility	Responsibility	Responsibility	Responsibility	Responsibility	
Role: Life Cycle	-Plan project	-Plan project	-Provide detail	Develop support	-Develop	
Planner,	life cycle	life cycle phases	project plan	plan	Transition	
Feasibility Analyst	phases	- List	-list deliverables		plan	
	- List	deliverables	-Estimate		-Deliver final	
	deliverables	- Identify	project effort		project	
	- Identify skills	responsibilities	using		artifacts	
	Casandamy	Casandamy	COINCOMO			
	Secondary	Secondary	-identify			
	Responsibility Check if the	Responsibility	development iteration			
	requirements	Assess plans to mitigate risks				
	are feasible.	innigate risks	Secondary			
	are reasible.		Responsibility			
			-Assess and			
			-Assess allu			

			evaluate feasibility of NDIProvide feasibility evidence for NDI		
NI TO 14	n ·	n ·	D:	D ·	D.
Name: Ekasit Jarussinvichai(Alan)	Primary Responsibility	Primary Responsibility	Primary Responsibility	Primary Responsibility	Primary Responsibility
Role: Requirements	Develop	Assess and	Assess NDI,	Build the	Deploy and
Engineer,	Requirement	prioritize	Conduct risk	system	transit the
Prototyper	Definition	requirements	assessment plan	System	system
Trototyper	Secondary	Secondary	assessment plan		System
	Responsibility	Responsibility			
	Research for	Build horizontal			
	NDI	and vertical			
		Prototypes			
Name: Kenneth	Primary	Primary	Primary	Primary	Primary
Anguka	Responsibility	Responsibility	Responsibility	Responsibility	Responsibility
Role: Verification	-Review the	-Review the	-Review the	- Verify and	- Verify and
and Validation	project artifacts	project artifacts	project artifacts	validate work	validate work
Engineer,	-Manage	-Manage Project	-Manage Project	products	products
Requirements	Project Quality	Quality	Quality	Casandawa	Casandamy
Engineer	Secondary Responsibility	Secondary	Secondary	Secondary Responsibility	Secondary Responsibility
	Develop	Responsibility	Responsibility	Build the	Deploy and
	Requirement	Assess and	Assess NDI,	system	transit the
	Definition	prioritize	Conduct risk	System	system
		requirements	assessment plan		
		1			
Name: Kshama	Primary	Primary	Primary	Primary	Primary
Krishnan	Responsibility	Responsibility	Responsibility	Responsibility	Responsibility
Role: Prototyper,	Research for				
System and Software	NDI	Build prototype	Access NDI,	Build the	Deploy and
Architect		and analyze	conduct risk	system	transit the
	Secondary	NDI	assessment plan,		system
	Responsibility	components,	Sacandamy		
	Explore current system design	Secondary	Secondary Responsibility		
	system design	Responsibility	Create system		
		Define technical	and software		
		architecture	architecture		
			description,		
			Create UML		

			Model		
Name: Le Zhuang(Oliver) Role: Feasibility	Primary Responsibility Identify the	Primary Responsibility Specify	Primary Responsibility	Primary Responsibility	Primary Responsibility
Analyst, System and Software Architect	system concept, develop vision and usage	architectural styles, patterns and frameworks	Assess system architecture	Develop System	Develop system, fix defects
	Secondary Responsibility	Secondary	Secondary Responsibility		
	Analyze current system	Responsibility Capture win-	Identify system and software requirements		
		win negotiations,	definition		
Name: Shreya Sharma Role: System and	Primary Responsibility Identify the	Primary Responsibility Specify	Primary Responsibility	Primary Responsibility	Primary Responsibility
Software Architect, Requirements Engineer	system concept, develop vision and usage	architectural styles, patterns and frameworks	Assess system architecture	Develop System	Develop system, fix defects
	Secondary Responsibility	Secondary Responsibility	Secondary Responsibility		
	Analyze current system	Capture win- win negotiations,	Identify system and software requirements definition		
Name: Steven Helferich Role: Project	Primary Responsibility - Facilitate	Primary Responsibility - Assess and	Primary Responsibilities - Conduct risk	Primary Responsibilities - Support	Primary Responsibility - Deploy and
Manager, Operational Concept Engineer	Client-Team interaction for understanding of operational concept	prioritize requirements - Facilitate client-team interactions to	assessment and address major remaining risks	development team - Document work - Build the	transit system
	elements - Document team work and	prioritize requirements  Secondary		system	
	progress - Identify system concept	Responsibilities - Build			

	1 22 :	T	T	T	Г
	and develop	horizontal			
	vision and	prototypes			
	usage				
	Secondary				
	Responsibility				
	- Analyze				
	current system				
	and evaluate				
	requirements				
NT X7° I	D :	n ·	D '		
Name: Xichao	Primary	Primary	Primary		
Wang(Clark)	Responsibility:	Responsibility:	Responsibility:		
Role:Operational	Meet with	Evaluate the	figure out how		
Concept Engineer,	client and	relationship of	components		
Life Cycle Planner	understand	current system	interoperate		
	what does	and new system;	with each other		
	current system	establish the	to provide the		
	looks like,	element	desired		
	including	relationship of	capabilities.		
	current	new system and			
	business	new system	Secondary		
	workflow,	business	Responsibility:		
	current	workflow.	tailor the OCR		
		WOIKIIOW.			
	infrastructure,		for adopting		
	etc. And		with other		
	establish detail		components.		
	information				
	about				
	requirements				
	from clients				
	about the new				
	system.				
	Secondary				
	Responsibility:				
	evaluate all				
	requirements				
	with an				
	appropriate				
	schedule.				
	1				

# 3.3 Skills

**Table 6: Skills** 

Team members	Role	Skills
Steven Helferich	Project Manager	Current: Java, HTML5/CSS,
		Bootstrap, JS/jQuery, Python,
		Matlab
		Required: Android, iOS, PHP,
		MySQL
Kenneth Anguka	IIV&V	Current: C, C++, Java,
		Embedded and Real Time
		Systems, Python
Xichao Wang	Operational Concept Engineer	Current: Java, C++, Python,
		Matlab
		Required: PHP,
		HTML,MySQL, JS,
	710 7 1 71	Backbone.js, Boostrap
Alisha Parvez	Life Cycle Planner	Current: Java, C++, C,
		Python, JS, HTML5, MYSQL
		Required: Bootstrap, jQuery
Ekasit Jarussinvichai	Requirements Engineer	Current: Java, C++,
Exasit Jai ussiiiviciiai	Requirements Engineer	HTML/CSS, VBA, Oracle, JS
		TITIVIL/CSS, VB/1, OTACIC, 35
		Required: PHP, JSON,
		MySQL, Backbone.js,
		Bootstrap, Cordova, Winbook
Kshama Krishnan	Prototyper	Current: Java, JS,
		HMTL5/CSS3, Android,
		jQuery, C, C++
Le Zhuang	Feasibility Analyst	Current: Java, Python, C,
		HTML/CSS, Matlab
		Required: Bootstrap, PHP,
		MySQL, JS, JSON, jQuery,
		Backbone.js,
Shreya Sharma	Software Architect	Current: Testing: Web and
		Mobile, HTML5/CSS3,
		Bootstrap, JS

## 4. Approach

### 4.1 Monitoring and Control

- -The effort spent on the project is being recorded on Bugzilla.
- -The number of lines of code is logged on as project report every two weeks.
- -Communication with the client is being done through Winbook and emails.
- -Commitment review is done before moving into each phase.

The overall strategy is reported through project plan every two weeks.

#### **Closed Loop Feedback Control**

The team internally communicates through emails and google drive to keep everyone updated. The team also has team meeting every week to discuss about what we did in the previous week and what we are supposed to do next week.

#### 4.1.1 Reviews

ARB: This is a review that we perform with instructors and TAs to analyze our project progress. Team Meeting: Every Monday, the on-campus team has group meeting discussing about the progress and to-dos. The den-student is kept updated through mails and google drive documents. Bugzilla: We have maintained Bugzilla to trace our progress.

### 4.2 Methods, Tools and Facilities

**Table 7: Tools being used** 

TOOLS	USAGE	PROVIDER
Bugzilla	Tracks project progress	TA
Winbook	Keeps track of the information resulting from negotiations with client, win conditions and issues raised	TA
Microsoft Visio	Documents OCD workflow	Microsoft

Microsoft Office	Documents editing, sheets, presentations etc	Microsoft
Visual Paradigm	Captures UML and auto generate SSAD	Visual Paradigm International
COINCOMO	Estimates the software developing cost	USC CSSE
Effort Report	Records the total weekly working hours on the project	USC CSSE
MPP	Makes the project plan	Microsoft
Project Report	Records lines of code	Microsoft
Balsamiq mockups	For prototyping	Balsamiq

### 5. Resources

The following conditions were used to estimate the cost of our system, CashDoctor 3.0 Mobile App.

- 1. This project has no budget for our development efforts, while the software is provided and tools are free.
- 2. The duration of the project is 12 weeks in CSCI577a
- 3. The duration of the project is 12 weeks in CSCI577b.
- 4. There are eight team members.
- 5. There are four modules in this system.
  - a. Search module
  - b. Share module
  - c. Capture module
  - d. Networking module
- 6. Programming language is JavaScript
- 7. The SLOC is estimated by prototyper

**Table 8: COCOMO scale factors** 

Table 6: COCOMO scale factors		
Scale Driver	Value	Rationale
PREC	Nominal	This is not very similar to the projects that the team has developed before, so it is somewhat unprecedented
FLEX	Nominal	The client is open to discussions with the development team
RESL	High	There is only one risk item(OCR) with some uncertainity.
TEAM	High	The stakeholders don't have experience in working together as a team but are very collaborative and have strong commitments to achieve the goals of the project
PMAT	Nominal	The goals are consistently achieved CMMI level 2

Table 9: Module lists and SLOC of each module

No.	Module Name	Brief Description	SLOC	REVL
1	Search	For searching doctors according to various filters	500	10%
2	Share	For sharing invoices by entering manually or through OCR	300	10%

LCP Version 2.0.doc 14 Version Date: 07/30/12

3	Capture	For capturing invoices pictures and upload them in the database.	300	5%
4	Networking	Creating groups and adding people to the groups.	400	10%

#### **Table 10: Cost Drivers for Search Module**

Cost Driver	Value	Rationale
RELY	Nominal	This module is important but if it goes wrong, it won't affect the system very much. There are more important modules than this.
DATA	Very High	This module is pretty much the database for the website, very high data cost drive
DOCU	Nominal	Because the development process follows ICSM, the document for life-cycle needs is normal.
CPLX	Nominal	Lots of database table joins needed to use the search module.
RUSE	High	It is going to be reused for the future projects.
TIME	Nominal	This module stays there all the time, execution time depends on the amount of visitors.
STOR	Nominal	It will not take much of the storage place since it is just a search module.
PVOL	High	Very stable, the platform will stay the same
ACAP	High	Team members are highly capable to work on requirements and designs.
PCAP	High	Programmers are capable, efficient and thorough. They are able to communicate and cooperate very well.
PCON	Very High	We have 8 team members in CSCI577a that are continuing to CSCI577b as well.
APEX	Nominal	The average experience of the team members is about one year.
LTEX	Nominal	Most of the tools are new to our team, but are easy to learn
PLEX	Nominal	The platform is somewhat new to our team, but it is not difficult to learn.

TOOL	Nominal	Use of strong, mature, moderately integrated tools
SITE	Very High	Most teammate can meet at least once a week and communicate through calls and emails.
SCED	Nominal	The schedule is fixed for 24 weeks in Fall

#### **Table 11:Cost Drivers for Share Module**

<b>Cost Driver</b>	Value	Rationale
RELY	High	This module is very important, if it goes wrong, it will have a considerable effect on the system.
DATA	Very High	This module is pretty much the database for the website, very high data cost drive
DOCU	Nominal	Because the development process follows ICSM, the document for life-cycle needs is normal.
CPLX	Nominal	Lots of database table joins needed to use this module.
RUSE	Nominal	It cannot be used for other projects.
TIME	Nominal	This module stays there all the time, execution time depends on the amount of visitors.
STOR	Nominal	It will take some of the storage place since it shares the invoices of the users.
PVOL	High	Very stable, the platform will stay the same
ACAP	High	Team members are highly capable to work on requirements and designs.
PCAP	High	Programmers are capable, efficient and thorough. They are able to communicate and cooperate very well.
PCON	Very High	We have 8 team members in CSCI577a that are continuing to CSCI577b as well.
APEX	Nominal	The average experience of the team members is about one year.
LTEX	Nominal	Most of the tools are new to our team, but are easy to learn
PLEX	Nominal	The platform is somewhat new to our team, but it is not

		difficult to learn.
TOOL	Nominal	Use of strong, mature, moderately integrated tools
SITE	Very High	Most teammate can meet at least once a week and communicate through calls and emails.
SCED	Nominal	The schedule is fixed for 24 weeks in Fall

**Table 12: Cost Drivers for Capture Module** 

<b>Cost Driver</b>	Value	Rationale
RELY	High	This module is very important to the mobile app. If it goes wrong, a major feature of the app will stop working.
DATA	Very High	This module is pretty much the database for the website, very high data cost drive
DOCU	Nominal	Because the development process follows ICSM, the document for life-cycle needs is normal.
CPLX	High	This module involves use of COTS but a lot of modifications are needed to use it in the app.
RUSE	Low	It is not going to be useful for the future projects.
TIME	Nominal	This module stays there all the time, execution time depends on the amount of visitors.
STOR	High	It will take much of the storage space since it is a Capture module and it captures and stores invoices.
PVOL	High	Very stable, the platform will stay the same
ACAP	High	Team members are highly capable to work on requirements and designs.
PCAP	Nominal	Programmers are capable, but have never implemented this kind of feature before.
PCON	Very High	We have 8 team members in CSCI577a that are continuing to CSCI577b as well.
APEX	Nominal	The average experience of the team members is about one year.
LTEX	Nominal	Most of the tools are new to our team, but are easy to learn

PLEX	Nominal	The platform is somewhat new to our team, but it is not difficult to learn.
TOOL	Nominal	Use of strong, mature, moderately integrated tools
SITE	Very High	Most teammate can meet at least once a week and communicate through calls and emails.
SCED	Nominal	The schedule is fixed for 24 weeks in Fall

**Table 13:Cost Drivers for Networking Module** 

<b>Cost Driver</b>	Value	Rationale
RELY	Nominal	This module is important but if it goes wrong, it won't affect the system very much. There are more important modules than this.
DATA	Very High	This module is pretty much the database for the website, very high data cost drive
DOCU	Nominal	Because the development process follows ICSM, the document for life-cycle needs is normal.
CPLX	High	This is high because it is going to involve lots of submodules.
RUSE	High	It is going to be reused for the future projects.
TIME	Nominal	This module stays there all the time, execution time depends on the amount of visitors.
STOR	Nominal	It will not take much of the storage place since it is just a networking module.
PVOL	High	Very stable, the platform will stay the same
ACAP	High	Team members are highly capable to work on requirements and designs.
PCAP	High	Programmers are capable, efficient and thorough. They are able to communicate and cooperate very well.
PCON	Very High	We have 8 team members in CSCI577a that are continuing to CSCI577b as well.
APEX	Nominal	The average experience of the team members is about one year.
LTEX	Nominal	Most of the tools are new to our team, but are easy to learn

PLEX	Nominal	The platform is somewhat new to our team, but it is not difficult to learn.
TOOL	Nominal	Use of strong, mature, moderately integrated tools
SITE	Very High	Most teammate can meet at least once a week and communicate through calls and emails.
SCED	Nominal	The schedule is fixed for 24 weeks in Fall

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ingh level teatures Scale Lactors 16.46 Schedule (SCLD) ☼ Subcomponent
☼ Subcomponent(s)
More Actions ... Total Lines Of Code: 1,635 Hours/PM: 152.0 Estimated Schedule COST Effort PROD INST Staff Optimistic 3.67 5.51 445.34 0.00 0.00 0.7 356.27 Most Likely 4.59 5.91 0.00 0.00 0.8 5.74 6.34 285.02 0.00 0.00 0.9

Figure 1: COINCOMO estimate

According to COINCOMO, our optimistic effort value is 3.67 and our optimistic staff value is 0.7.

LCP Version 2.0.doc 19 Version Date: 07/30/12