

Schedule component

# Life Cycle Plan (LCP)

**JEP Online Platform**

<Team 15>

Name	First role	Second role
<b>Wei Yan</b>	Developer	Tester
<b>Shreya Nigam</b>	Project Manager	Developer
<b>Wei-ting Cheng</b>	Life Cycle Planner	Developer
<b>Reem Alfayez</b>	Requirement Engineer	Developer
<b>Rebecca Lin</b>	Developer	Tester
<b>Nicholas Pecoraro</b>	IIV&V	Quality Focal Point

<date>

# Version History

Date	Author	Version	Changes made	Rationale
09/27/13	Wei-ting	1.0	• Original template	• For VC package
10/16/13	Wei-ting	2.0	• Original template	• For Fc package
10/17/13	Wei-ting	2.1	• Original template	• For Fc package
10/22/13	Wei-ting	2.2	<ul style="list-style-type: none"> <li>• Add new team member required skill</li> <li>• Update responsibility of team members</li> </ul>	• For Fc package
12/02/13	Wei-ting	3.0	• Update tools	• For DC package
12/04/13	Wei-ting	3.1	• Add 6.1.1-6.1.3	• For DC package
12/05/13	Wei-ting	3.2	• Edit project plan	• For DC package
12/06/13	Wei-ting	3.3	• Edit project plan	• For DC package
12/08/13	Wei-ting	3.4	• Edit project plan	• For DC package
02/08/14	Wei-ting	4.0	<ul style="list-style-type: none"> <li>• Modify LCP to 2<sup>nd</sup> semester</li> <li>• Modify iteration plan</li> </ul>	<ul style="list-style-type: none"> <li>• Team member leaving</li> <li>• Role change</li> <li>• JEP has confirmed their schedule</li> </ul>
02/09/14	Wei-ting	4.1	• Modify iteration plan	• For future testing plan
02/09/14	Wei-ting	4.2	• Modify iteration plan	• To fit the time span of the 2 <sup>nd</sup> iteration
02/10/14	Wei-ting	4.3	• Modify iteration plan	• Add making manual
03/26/14	Wei-ting	5.0	• Adding section 6.2	• For CCD
03/30/14	Wei-ting	5.1	• Adding section 6.3	• For IOC1
04/15/14	Wei-ting	5.2	• Adding feedback	• Get the feedback form JEP
04/30/14	Wei-ting	5.3	• Modify testing result	• For As built package

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# **1. Introduction**

## **1.1 Purpose of the LCP**

LCP is a backbone document which involves clients and team members. It also contain many critical information like team member's skill, responsibility in order to make a detail plan in the future, those information will indicate the basic discipline of the whole project. What should people do? When will they work? Who is responsible for what? How will we implement the product. How much can we do.

## **1.2 Status of the LCP**

The status of the LCP is currently at the VC package version number 1.0. For this very first LCP document, it identifies every stake holder's responsibility and their skill for future planning.

## **1.3 Assumptions**

- The project duration is 24 weeks. 12 weeks for 2013 fall and 12 weeks for 2014 spring
- All SCS know their responsibility clearly.

## **2. Milestones and Products**

### **Exploration phase:**

- ◆ Duration: 2013/Sep/30 – 2013/Oct/5
- ◆ Concept: Identify project operational concept, explore and assess NDI.
- ◆ Deliverables: VC Package
- ◆ Milestone: Valuation Commitment Review
- ◆ Strategy: Incremental Commitment Cycle

### **Valuation phase**

- ◆ Duration: 2013/Oct/6 – 2013/Oct/16
- ◆ Concept: assess the win condition and negotiate with critical stakeholder in order to identify constrain and priority.
- ◆ Deliverables: Valuation Commitment Package
- ◆ Milestone: Valuation Commitment Review
- ◆ Strategy :Incremental Commitment Cycle

### **Foundation phase**

- ◆ Duration: 2013/Oct/16 – 2013/Feb/10
- ◆ Concept: In this phase, JEP team will follow the foundation plan to complete prototype which satisfy high priority requirement and finish basic construction of component.
- ◆ Deliverables: Draft Development Commitment Package
- ◆ Development Commitment Review
- ◆ Strategy: Concurrent work on prototype and weekly meeting with team and clients. Use Architecture agile method for this project.

### **Foundation Rebaseline phase**

- ◆ Duration: 2014/Jan/13 – 2014/Jan/24
- ◆ Concept: In this phase, JEP team verifies the schedule of testing, development, and transition plan with JEP.
- ◆ Deliverables: Development Commitment Package
- ◆ Development Commitment Review
- ◆ Strategy: Use Architecture agile method for this project. Release testing version to JEP before the end of two iterations.

## 3. Responsibilities

### 3.1 Responsibilities by Phase

Table 1: Stakeholder's responsibilities

<b>Name:</b> Wei yan	
<b>Role:</b> Developer	
<b>Exploration</b>	Team support
<b>Valuation</b>	Identify proper architecture and pattern, Analyze NDI and NCS
<b>Foundations</b>	Assess project architecture, UML model,
<b>Development-Construction Iteration</b>	Developer, Testing
<b>Development-Transition Iteration</b>	Making manual, Support training course

<b>Name:</b> Sherya Nigam	
<b>Role:</b> Project Manager,Developer	
<b>Exploration</b>	Identify project management approach, record project progress, project planning and management
<b>Valuation</b>	record project progress, project planning and management
<b>Foundations</b>	record project progress, Foundation planning and management, prototyper
<b>Development-Construction Iteration</b>	record project progress, Construction planning and management Developer,
<b>Development-Transition Iteration</b>	record project progress, plan the transition plan, Making manual, Support training course

<b>Name:</b> Wei-ting Cheng	
<b>Role:</b> Life Cycle Planner,Developer	
<b>Exploration</b>	Identify stakeholder's responsibility and skills
<b>Valuation</b>	Estimate effort and schedule, identify life cycle plan approach.
<b>Foundations</b>	Planning Detailed life cycle plan, prototyper
<b>Development-Construction Iteration</b>	Planning Detailed life cycle plan, Developer,Testing
<b>Development-Transition Iteration</b>	plan the transition plan, Making manual, Training



<b>Name:</b> Reem Alfayez	
<b>Role:</b> Requirement Engineer,Developer	
<b>Exploration</b>	Capture and Evaluate win conditions, win-win negotiation
<b>Valuation</b>	Analyze feasibility of win conditions
<b>Foundations</b>	Team support, prototyper
<b>Development- Construction Iteration</b>	Team support, Developer, assess iteration product
<b>Development- Transition Iteration</b>	Support training course., Making manual.

<b>Name:</b> Rebbecca Lin	
<b>Role:</b> Feasibility Analyst,Developer	
<b>Exploration</b>	Analyze Business Case, Analyze NDI and NCS
<b>Valuation</b>	Assess requirements, Assess NDI and NCI
<b>Foundations</b>	Assess Feasibility, prototype, Assess prototyper
<b>Development- Construction Iteration</b>	Assess Feasibility, Developer, Testing, Assess iteration product
<b>Development- Transition Iteration</b>	Support training course, Making manual.

<b>Name:</b> Ricardo Solano(leave)	
<b>Role:</b> Operation Concept Engineer	
<b>Exploration</b>	Analyze Current System, Assess Operational Concept, Explore Alternatives,
<b>Valuation</b>	Identify Objectives Constraints and Priorities, Identify Organization and Operation
<b>Foundations</b>	Prototype, Assess operation concept
<b>Development- Construction Iteration</b>	
<b>Development- Transition Iteration</b>	

<b>Name:</b> Nicholas Pecoraro	
<b>Role:</b> IIV&V	
<b>Exploration</b>	Team support
<b>Valuation</b>	Verify and validate work produc, manage work quality.
<b>Foundations</b>	Verify and validate work product
<b>Development- Construction</b>	Verify and validate work product

Iteration	
<b>Development-Transition Iteration</b>	Verify and validate work product

<b>Name:</b> JEP staff	
<b>Role:</b> Client	
<b>Exploration</b>	Analysis current System, Analysis business workflow, Provide win conditions, Provide necessary resource
<b>Valuation</b>	Assess prototype and components
<b>Foundations</b>	Access prototype and documents.
<b>Development-Construction Iteration</b>	Access testing version of product, provide and organize volunteer for testing.
<b>Development-Transition Iteration</b>	Client evaluation.

## 3.2 Skills

Team members	Role	Skills
Wei Yan	System Architect/ Developer	Current skill: My SQL, MS SQL Server, Microsoft terminal services client (MSTSC) Java, C++, C, Racket, Python, SQL HTML, MXML, XML, Flex, Javascript, Actionscript, XSLT Architecture analysis for several projects, database Required skill: Knowledge of architecture and pattern, UML model
Sherya Nigam	Project Manager/ Developer	Current skill: C, C++, Java, Socket programming, SQL HTML, XML wireless remote monitoring of devices Required skill: Project management skill Team member coordination

		Client interaction
Wei-ting Cheng	Life Cycle Planner/ Developer	Current skill: C, C++, Java HTML,php css,SQL Image processing android application development Required skill: Human resource planning skill Life cycle planning skill
Reem Alfayez	Requirement Engineer/ Developer	Current skill: Java,C#HTML,CSS, PHP,ASP.NET, ,JavaScript,jQuery AJAX,VB.NET,JSF,JS. Required skill: Client negotiation Requirement assessment
Rebecca Lin	Feasibility Analyst/ Developer	Current skill: C, C++, Java HTML, JSP Android app development  Required skill: Requirement assessment Risk analyzation
Ricardo Solano(leave)	Operational Concept Engineer	Current skill: Java, C++ HTML, Javascript Automotive Control System Design PCB Design Required skill: Operational concept analyzation Business workflow
Nicholas Pecoraro	IIV&V	Current skill: Java Enterprise framework HTML, Perl, PHP, Javascript, CSS. XML, KML, SQL, MySQL, SQLITE Spring, Android SDK, Python(a little) , C++, Maven, SVN, shell scripting, web services.

		Required skill: Production validation
Future team member	Operational Concept Engineer	Required skill: PHP, HTML5, Javascript SQL Having experience of connecting website to a secured database.

## 4. Approach

### 4.1 Monitoring and Control

Use Progress Report to monitor everyone's work progress and monitor the whole project and the risk. Buglizza focus on the current working progress project manager and IIV&V control the progress by assign team members works and monitor if the work is done.

#### 4.1.1 Closed Loop Feedback Control

Use what's app to send urgent information by instant message or some discussion which don't need much time so that everyone can have latest information. For some reasons, those instant message are easily ignored, we send important message through mail to every teammates, sometime include client, to make sure everyone is updated. Weekly meeting is hold in order to discussing the problem we are facing and to plan next move.

#### 4.1.2 Reviews

Use peer review by sending document through email to everyone before upload to team website. Outside the team, use winbook to let client review our decisions.

After this phase, it start to dealing with code more, we will use SVN to share our code and that every know where has been modified.

### 4.2 Methods, Tools and Facilities

Tools	Usage	Provider
Balsamiq	Provide tools to draw prototype outlook	Open source
COINMOII	Estimate the effort of the project	USC
Google API	Provide library of google map and google calendar	Open source
Winbook	Help to negotiate requirements with clients	USC
Visual paradigm	UML modeling	USC
SVN	Code sharing and review	Nick

## 5. Resources

- Estimated CSCI577a Effort : 7 team members at 12 hrs/week for 12 weeks
- Estimated CSCI577b Effort : 7 team members at 12 hrs/week for 12 weeks
- Total estimated effort : 13.26PM
- Budget information: 0
- Project duration : 24 weeks
- Component modules in your development project:
  - Check\_in
  - Authentication
  - Student management
  - Document management
  - Site information
  - Schedule component
- Programming language used: PHP,css,HTML5,SQL

**Table 2: COCOMOII Scale Driver**

No.	Module Name	Brief Description	SLOC
1	Check_in	Allow students to check in.	1000
2	Authentication	User will get their permission to access the JEP online platform. This also include session handling, different user will see different view.	400
3	Student management	JEP staff can search all student's information and program assistance can only see their students' information.	600
4	Document management	Program assistance can upload the document and students can view the document.	400
5	Site information	Students can see the site information and site direction which is related to them.	800
6	Schedule component	Student can view their schedule.	800

**Table 3: COCOMOII Cost Driver**

Scale Driver	Value	Rationale
PREC	Low	We are not familiar with website for mobile phone and has no experience in develop check_in function and log_in.
FLEX	High	The project is much flexible, clients accept every suggestion

		which can meet their primary goal.
RESL	Nominal	we have access the feasibility of requirement but don't have back up plane
TEAM	High	Every teammates are very cooperate. However, sometimes someone can't come to meeting and may have to delay the progress due to their other work.
PMAT	Low	Since we are still students learning knowledge of software engineering, we don't have a mature process.

The following is the result from COCOMOII estimation based on Scale Drivers and Cost Drivers discussed above.

**Table 4: COCOMOII Cost Drivers of Module – check\_in**

Cost Driver	Value	Rationale
RELY	Nominal	It is the main function of the project. However, it would not have financial loss and professor can use other way to note down the attendance.
DATA	Low	The student's check may only send and capture a very little data.
DOCU	Nominal	Because the development process follows ICSM, the document for life-cycle needs is normal.
CPLX	High	It need geo location chek_in, and is much complex.
RUSE	Low	It is not intended to be reused for the future project.
TIME	Nominal	It don't have much time constrain.
STOR	Nominal	It don't have much storage constraint.
PVOL	Low	The major change will be longer than 1 year
ACAP	Nominal	Our analysis and design ability is not like profession one.
PCAP	Nominal	Much of us don't have working experience but we still have solid ability to programming.
PCON	Nominal	Only 2 team members will leave this team after 577a
APEX	Low	None of us have experience developing such system
LTEX	Nominal	More than half of us have those programming language experience.
PLEX	Nominal	We have experience on website and all of us have SQL experience.
TOOL	Low	We don't have any experience on cold fusion but it highly mature platform.
SITE	High	Most of us are highly collocated.
SCED	Nominal	The schedule is fixed for 12 weeks in Fall semester and 12 weeks in Spring semester.

**Table 5: COCOMOII Cost Drivers of Module - Authentication**

Cost Driver	Value	Rationale
RELY	High	If the JEP staff cannot access the system they can not do their job

		and if the authentication is wrong, other student may see what they were not able to see.
DATA	Low	The data it captured is not large since it only capture the information of the log_in account.
DOCU	Nominal	Because the development process follows ICSM, the document for life-cycle needs is normal.
CPLX	Nominal	The website have only to handle the authentication
RUSE	Low	It is not intended to be reused for the future project.
TIME	Nominal	It don't have much time constrain.
STOR	Nominal	It don't have much storage constraint.
PVOL	Low	The major change will be longer than 1 year
ACAP	Nominal	Our analysis and design ability is not like profession one.
PCAP	Nominal	Much of us don't have working experience but we still have solid ability to programming.
PCON	Nominal	Only 2 team members will leave this team after 577a
APEX	Low	None of us have experience developing such system
LTEX	Nominal	More than half of us have those programming language experience.
PLEX	Nominal	We have experience on website and all of us have SQL experience.
TOOL	Low	We don't have any experience on cold fusion but it highly mature platform.
SITE	High	Most of us are highly collocated.
SCED	Nominal	The schedule is fixed for 12 weeks in Fall semester and 12 weeks in Spring semester.

Table 6: COCOMOII Cost Drivers of Module – Student Management

Cost Driver	Value	Rationale
RELY	Nominal	It is the basic function for JEP staff and PA. if this function is down, then they have to retrieve the information form the old system.
DATA	High	The JEP can see all the student's information.
DOCU	Nominal	Because the development process follows ICSM, the document for life-cycle needs is normal.
CPLX	High	What we have to implement is to show the student's information base on the users authentication
RUSE	Low	It is not intended to be reused for the future project.
TIME	Nominal	There are not much time constrain.
STOR	Nominal	There are not much storage constraint.
PVOL	Low	The major change will be longer than 1 year
ACAP	Nominal	Our analysis and design ability is not like profession one.
PCAP	Nominal	Much of us don't have working experience but we still have solid ability to programming.
PCON	Nominal	Only 2 team members will leave this team after 577a
APEX	Low	None of us have experience developing such system



LTEX	Nominal	More than half of us have those programming language experience.
PLEX	Nominal	We have experience on website and all of us have SQL experience.
TOOL	Low	We don't have any experience on cold fusion but it highly mature platform.
SITE	High	Most of us are highly collocated.
SCED	Nominal	The schedule is fixed for 12 weeks in Fall semester and 12 weeks in Spring semester.

**Table 7: COCOMOII Cost Drivers of Module –Document Management**

Cost Driver	Value	Rationale
RELY	Low	If this function is down PA can still send the document to the site or to the student.
DATA	Low	It capture very less data.
DOCU	Nominal	Because the development process follows ICSM, the document for life-cycle needs is normal.
CPLX	Low	it only upload the profile and the browser can support the download and view.
RUSE	Low	It is not intended to be reused for the future project.
TIME	Nominal	It don't have much time constrain.
STOR	Nominal	It don't have much storage constraint.
PVOL	Low	The major change will be longer than 1 year
ACAP	Nominal	Our analysis and design ability is not like profession one.
PCAP	Nominal	Much of us don't have working experience but we still have solid ability to programming.
PCON	Nominal	Only 2 team members will leave this team after 577a
APEX	Low	None of us have experience developing such system
LTEX	Nominal	More than half of us have those programming language experience.
PLEX	Nominal	We have experience on website and all of us have SQL experience.
TOOL	Low	We don't have any experience on cold fusion but it highly mature platform.
SITE	High	Most of us are highly collocated.
SCED	Nominal	The schedule is fixed for 12 weeks in Fall semester and 12 weeks in Spring semester.

**Table 8: COCOMOII Cost Drivers of Module – site information**

Cost Driver	Value	Rationale
RELY	Low	If it is dysfunction, JEP staff can still use old system and student can use online map application.

DATA	Low	It retrieve the site address.
DOCU	Nominal	Because the development process follows ICSM, the document for life-cycle needs is normal.
CPLX	Low	It only retrieves the site address and we can use google API to implement the direction.
RUSE	Low	It is not intended to be reused for the future project.
TIME	Nominal	It don't have much time constrain.
STOR	Nominal	It don't have much storage constraint.
PVOL	Low	The major change will be longer than 1 year
ACAP	Nominal	Our analysis and design ability is not like profession one.
PCAP	Nominal	Much of us don't have working experience but we still have solid ability to programming.
PCON	Nominal	Only 2 team members will leave this team after 577a
APEX	Low	None of us have experience developing such system
LTEX	Nominal	More than half of us have those programming language experience.
PLEX	Nominal	We have experience on website and all of us have SQL experience.
TOOL	Low	We don't have any experience on cold fusion but it highly mature platform.
SITE	High	Most of us are highly collocated.
SCED	Nominal	The schedule is fixed for 12 weeks in Fall semester and 12 weeks in Spring semester.

**Table 9: COCOMOII Cost Drivers of Module – Schedule**

Cost Driver	Value	Rationale
RELY	Nominal	Although the students may not see their schedule to plan their schedule, it is easy recoverable.
DATA	Nominal	It capture every site information of student have choose.
DOCU	Nominal	Because the development process follows ICSM, the document for life-cycle needs is normal.
CPLX	Low	We will just show all the event of the site order by date.
RUSE	Low	It is not intended to be reused for the future project.
TIME	Nominal	It don't have much time constrain.
STOR	Nominal	It don't have much storage constraint.
PVOL	Low	The major change will be longer than 1 year
ACAP	Nominal	Our analysis and design ability is not like profession one.
PCAP	Nominal	Much of us don't have working experience but we still have solid ability to programming.
PCON	Nominal	Only 2 team members will leave this team after 577a
APEX	Low	None of us have experience developing such system
LTEX	Nominal	More than half of us have those programming language experience.

PLEX	Nominal	We have experience on website and all of us have SQL experience.
TOOL	Low	We don't have any experience on cold fusion but it highly mature platform.
SITE	High	Most of us are highly collocated.
SCED	Nominal	The schedule is fixed for 12 weeks in Fall semester and 12 weeks in Spring semester.

The following is the result from COCOMOII estimation based on Scale Drivers and Cost Drivers discussed above.

**Figure 1: COCOMO Estimation Result**

X	Name	Size	Labor Rate (\$/Month)	EAF	Language	NOM Effort DEV	EST Effort DEV	PROD	COST	INST COST	Staff	Risk
<input type="checkbox"/>	check in	1,000	0.0	0.97	Non-spe...	3.37	3.27	305.76	0.00	0.00	0.4	0.0
<input type="checkbox"/>	authentic...	400	0.0	0.91	Non-spe...	1.35	1.23	325.22	0.00	0.00	0.2	0.4
<input type="checkbox"/>	student ...	500	0.0	1.23	Non-spe...	1.69	2.07	241.39	0.00	0.00	0.3	0.0
<input type="checkbox"/>	docume...	400	0.0	0.66	Non-spe...	1.35	0.89	446.95	0.00	0.00	0.1	0.0
<input type="checkbox"/>	site infor...	700	0.0	0.66	Non-spe...	2.36	1.57	446.95	0.00	0.00	0.2	0.0
<input type="checkbox"/>	schedule...	600	0.0	0.80	Non-spe...	2.02	1.62	370.07	0.00	0.00	0.2	0.0

  

Estimation							
Total Lines Of Code: 3,600				Hours/PM: 152.0			
Estimated	Effort	Schedule	PROD	COST	INST	Staff	Risk
Optimistic	8.52	7.27	422.36	0.00	0.00	1.2	
Most Likely	10.65	7.81	337.89	0.00	0.00	1.4	0.4
Pessimistic	13.32	8.39	270.31	0.00	0.00	1.6	

The average engineer work per month is 152 which is set by the COINCOMO. We work 12 hours per weeks and have 24 weeks so we will have  $152/(12*24)=0.527$ , we have 7 developers so  $10.65*0.527 = 5.61$   $13.32*0.527=7.01$ . It is more than the most likely case but less than pessimistic case.

## **6. Iteration Plan**

### **6.1 Plan**

**Figure 2: Iteration Plan**

Development Phase-construction iteration	62 days	Fri 1/24/14	Fri 4/18/14		
Iteration 1 -Core capability	45 days	Fri 1/24/14	Wed 3/26/14		
Implementing and testing	45 days	Fri 1/24/14	Wed 3/26/14		
Authentication	30 days?	Fri 1/24/14	Thu 3/6/14		Reem Alfayez
programming	30 days?	Fri 1/24/14	Thu 3/6/14		
unit testing	30 days?	Fri 1/24/14	Thu 3/6/14		
Check in	30 days?	Fri 1/24/14	Thu 3/6/14		Shreya Nigam, Wei Yan
programming	30 days?	Fri 1/24/14	Thu 3/6/14		
unit testing	30 days?	Fri 1/24/14	Thu 3/6/14		
Student management	30 days?	Fri 1/24/14	Thu 3/6/14		Rebecca Lin, Weiting Ch
programming	30 days?	Fri 1/24/14	Thu 3/6/14		
unit testing	30 days	Fri 1/24/14	Thu 3/6/14		
Site information	30 days?	Fri 1/24/14	Thu 3/6/14		Rebecca Lin, Weiting Ch
programming	30 days?	Fri 1/24/14	Thu 3/6/14		
unit testing	30 days?	Fri 1/24/14	Thu 3/6/14		
integration testing	44 days?	Fri 1/24/14	Tue 3/25/14		Project Team
system testing	44 days?	Fri 1/24/14	Tue 3/25/14		Project Team
quality assurance	5 days?	Fri 1/24/14	Thu 1/30/14		Nickolas Pecoraro, Rebe
client test	5 days?	Mon 3/10/14	Fri 3/14/14		Client
Core Capability Drivethrough	1 day?	Wed 3/26/14	Wed 3/26/14		
Iteration 2 -Full capability	13 days	Thu 3/27/14	Sun 4/13/14		
Implementing and testing	13 days	Thu 3/27/14	Sun 4/13/14		
Document	10 days	Thu 3/27/14	Wed 4/9/14		Rebecca Lin, Reem Alfay
programming	10 days	Wed 3/26/14	Tue 4/8/14		
unit testing	10 days	Wed 3/26/14	Tue 4/8/14		
Schedule component	10 days	Thu 3/27/14	Wed 4/9/14		Weiting Cheng
programming	10 days	Wed 3/26/14	Tue 4/8/14		
unit testing	10 days	Wed 3/26/14	Tue 4/8/14		
integration testing	10 days	Thu 3/27/14	Wed 4/9/14		Project Team
alpha test	10 days?	Thu 3/27/14	Wed 4/9/14		
system testing	10 days	Thu 3/27/14	Wed 4/9/14		Project Team
quality assurance	2 days	Thu 4/10/14	Sun 4/13/14		
Making manual	10 days?	Thu 3/27/14	Wed 4/9/14		Shreya Nigam, Wei Yan
Project transition ARB	5 days	Mon 4/14/14	Fri 4/18/14		
Installation and Transition	7 days	Mon 4/21/14	Tue 4/29/14		
Transition project and training	6 days	Mon 4/21/14	Sun 4/27/14		
Installation the System	1 day?	Mon 4/21/14	Mon 4/21/14		
Acceptance test	3 days	Wed 4/23/14	Sun 4/27/14		
Training	3 days	Wed 4/23/14	Fri 4/25/14		
Product Archiving	1 day?	Fri 4/25/14	Fri 4/25/14		
Project Release	1 day?	Fri 4/25/14	Fri 4/25/14		
Operational Commitment Review for Ir	1 day	Mon 4/28/14	Mon 4/28/14		
Client evaluation	1 day?	Mon 5/5/14	Mon 5/5/14		

## 6.1.1 Capabilities to be implemented

**Table 9: Construction iteration capabilities to be implemented**

ID	Capability	Description	Priority	Iteration
1	Check_in	Allow students to check in.	1	1
2	Authentication	User will get their permission to access the JEP online platform. This also include session handling, different user will see different view.	2	1
3	Student management	JEP staff can search all student's information and program assistance can only see their students' information.	3	1
4	Document management	Program assistance can upload the document and students can view the document.	4	2
5	Site information	Students can see the site information and site direction which is related to them.	5	2
6	Schedule component	Student can view their schedule.	6	2

## 6.1.2 Capabilities to be tested

**Table 10: Construction iteration capabilities to be tested**

ID	Capability	Description	Priority	Iteration
TC-01	Check_in	As a JEP volunteer, I can check-in my geo location on through the website either from my phone or pc, to confirm my attendance at a school or volunteer site.	1	1
TC-09	Check_in	As a JEP staff(PA,Admin), I can set the message that students will get when they checked_in by setting the message start date, end date, and content.	4	1
TC-10	Check_in	As a JEP staff(PA,Admin), I can edit the message that students will get when they checked_in by setting the message start date, end date, and content.	4	1
TC-01	Check_in	As a JEP volunteer, I get a message when I check in	4	1
TC-11	Authentication	As a user, I can view the proper website view based on my role after I logged in	2	1

TC-12	Authentication	As a user, I can log out.	2	1
TC-11	Authentication	As a user I can log in.	2	1
TC-14	Authentication	As an admin, I can add users(admins, and PA) to the system by adding their USC ID, and selecting their role(Admin, PA)	2	1
TC-15	Authentication	As an admin, I can edit users'(admins, and PA) roles in the system.	2	1
TC-16	Authentication	As an admin, I can delete users'(admins, and PA) roles in the system.	2	1
TC-13	Student management	As JEP Admin, I can search student view and their information	3	1
TC-07	Student management	As JEP PA, I can browse my student information	3	1
TC-06	Student management	As a program assistant, I can export my students successful check-ins information which includes(date,time,and site)	3	1
TC-08	Document management	As a program assistant , I can upload JEP important pdf documents	4	2
TC-04	Document management	As a JEP volunteer, I can view a list of all JEP documents.	4	2
	Student management	As a JEP staff(PA,Admin), I can set the message that students will get when they checked_in by setting the message start date, end date, and content.	3	1
TC-10	Student management	As a JEP staff(PA,Admin), I can edit the message that students will get when they checked_in by setting the message start date, end date, and content.	4	1
TC-01	Check_in	As a JEP volunteer, I get a message when I check in	4	1
TC-18	Site information	As an admin, I can edit site information Name,Dress Code,No School,Early Dismissal,Image,Office Location,Office Location,Address,Principal Name,Coordinator's info(First Name,Last Name ,e-mail,Office Location)	5	1
TC-17	Site information	As an admin, I can add site information including Name,Dress Code,No School,Early	5	1

		Dismissal,Image,Office Location,Office Location,Address,Principal Name,Coordinator's info(First Name,Last Name ,e-mail,Office Location)		
TC-19	Site information	As an admin, I can delete a site.	5	1
TC-02	Site information	As a JEP volunteer, I can log in and find my site information including location, description, and site times that I am supposed to go there.	5	1
TC-03	Site information	As a JEP volunteer, I can see maps to and from community sites and USC.	5	1
TC-01	Check_in	As a JEP volunteer, I can check-in my geo location on through the website either from my phone or pc, to confirm my attendance at a school or volunteer site.	1	2
TC-05	Schedule component	As a JEP volunteer, I can log in and find my site information including location, description, and site times that I am supposed to go there.	6	2

### 6.1.3 Capabilities not to be tested

Table 11: Capabilities not to be tested in iteration 1

## 6.2 Iteration Assessment

### 6.2.1 Capabilities Implemented, Tested, and Results

Here list the core capabilities implemented in the first iteration and their test result. The rest component will be implemented in the second iteration and then have fully test.

Table 12: Capabilities implemented, tested, and results

ID	Capability	Test Case	PC version	Mobile version	Rational
1	Receive Announcement Upon Checkin	TC-01	Yes	Yes	
2	View Volunteer's Assigned Site Info	TC-02	Yes	Yes	
3	Get Directions to Site	TC-03	Yes	Yes	



4	<b>View JEP Documents</b>	TC-04	Yes	yes	
5	<b>View Schedule Information</b>	TC-05	Yes	Yes	
6	<b>Export Checkin Information</b>	TC-06	Yes	NA	Mobile version don't have this function.
7	<b>Browse Volunteer Information</b>	TC-07	yes	NA	Mobile version don't have this function.
8	<b>Manage JEP Documents</b>	TC-08	Yes	NA	Mobile version don't have this function.
9	<b>Set Announcement for Volunteers</b>	TC-09	Yes	Yes	
10	<b>Edit Announcement for Volunteers</b>	TC-10	yes	Yes	
11	<b>Login</b>	TC-11	Yes	Yes	
12	<b>Logout</b>	TC-12	Yes	Yes	
13	<b>Search Volunteer Information</b>	TC-13	Yes	Yes	
14	<b>Add User</b>	TC-14	Yes	NA	Mobile version don't have this function.
15	<b>Edit User</b>	TC-15	Yes	NA	Mobile version don't have this function.
16	<b>Delete User</b>	TC-16	Yes	NA	Mobile version don't have this function.
17	<b>Add Site</b>	TC-17	Yes	NA	Mobile version don't have this function.
18	<b>Edit Site</b>	TC-18	Yes	NA	Mobile version don't have

					this function.
19	Delete Site	TC-19	Yes	NA	Mobile version don't have this function.

## 6.2.2 Core Capabilities Drive-Through Results

- Basically JEP have very positive feedback on the check in function. It has more function than they think. For example, it can change the transportation method the route. Also, it has detail information on the map.
- However, some of them think the user manual is helpful but some don't. it might happened according to the role of the client. People who are satisfied by the manual is closer to technical staff.
- Most of the change JEP required is the text of the system to make them more understand the information or the function of the bottom. For example, JEP ask to change the add permission to add user. Also they want to change time format to more readable format.
- Another change is the export function which only work in certain environment.

## 6.3 Adherence to Plan

Basically, the first iteration have a few day delay to its original due day. However, it benefit team15 to have more time in the second iteration because we move one component to first iteration. Also, the delayed component is not actually core capability.

It is in the budget since the whole project actually doesn't purchase anything.

There are some part we fail to this project in the first iteration.

First, the underestimation of effort of the UI and mobile website. It takes too much time and disturb the original plan. In the future, we should have more detail design decision in the planning phase to avoid this situation

Second, we didn't have a well-organized version control system so that we waste approximate 2 days per person to make the project updated to the latest version. This happened especially when multiple people working in the same component in the same time. Sometimes one will overwrite another's code and make a confusion of each other. Setting a rule that one have to inform every team mates that one have made some change of the component and allow another one to update the code immediately. Also, every team mates have responsibility to let their code updated to the latest version.

Third, we didn't receive the feedback form JEP after the week they test the website. In the CCD, JEP has asked for some change of the requirement. However, team 15 should receive the feed a week before CCD because JEP have a week to test the JEP online platform.

