



Capstone Project Document

Carrier Trading Center

Report #2 – Project Plan

Carrier Trading Center					
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Project code	CTC				

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SIGNATURE PAGE

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1 INTRODUCTION

1.1 Purpose

This part is the project management plan of Carrier Trading Center (CTC) Project – our Capstone Project in FPT University. It is included the project overview, project organization, tools and infrastructures, schedule, risk management, quality management and some coding convention of this project

1.2 Definitions and Acronyms

Acronym & Abbreviation	Definition	Note
CTC	Carrier Trading Center	
FU	FPT University	
ERD	Entity Relationship Diagram	
RUP	Rational Unified Process	
SRS	Software Requirement Specification	
SAD	Software Architecture Design	

Table 1-1: Definitions and Acronyms

2 PROJECT OVERVIEW

2.1 Project description

Project Code	СТС	Contract Type	None
Customer	FPT University	2nd Customer	None
Project Level	Group	Project Rank	None
Application Type	Website	Project Manager	Lê Văn Dương
Project Category	Development	Business Domain	E-commerce

Table 2-1: Project Description

2.2 Scope

UC No.	Group Of Functions	Function	Glossary			
		Guest				
UC001	Register	Register a new account				
UC002	Bill of lading list	Search bill of lading				
UC003		View bill of lading list				
UC004	Price list	View price				
UC005		Reference price				
	Admin					
UC006	Bill of lading list	View bill of lading detail				

UC007		Search bill of lading		
UC008	†	View bill of lading list		
UC009	†	View carrier auction success		
UC010	1	Summary all bill of lading		
UC011	1	View carrier list who are auctioning		
UC012	Manage user	Search user		
UC013	Wanage user	View user profile		
UC014	-	Edit user profile		
UC015	1	Add company		
UC016	-	Account recharge for user		
UC017	-	Active user		
UC018	-	Deactivate user		
UC019	-	Edit company information		
UC020	-	View user list		
UC020	Price list	View user list View price list		
UC021	1 TICE list	Add a new price		
UC022 UC023	-	1		
UC023	-	View price table history Edit price list		
	-	_		
UC025 UC026	-	Reference price		
UC026 UC027	/D 4: 1:4	Edit reference price Transaction History		
	Transaction history	-		
UC028	Login	Login		
UC029	Logout	Logout		
UC030	Manage report	Search report		
UC031	-	Response report		
UC032	M	View report list		
UC033	Manage profile	View profile		
UC034	4	Edit profile		
UC035	-	Forget password		
UC036		Change password		
		Goods owner		
UC037	Bill of lading list	View bill of lading list		
UC038	- Or invining inst	View bill of lading detail		
UC039	†	Search bill of lading		
UC040	†	View carrier auction success		
UC041	†	Confirm complete transaction		
UC042	†	Post a new bill of lading		
UC043	†	Cancel bill of lading		
UC044	Manage profile	Edit profile		
UC045		View profile		
UC046	-	Change password		
UC047	-	Forget password		
UC048	-	Add company		
UC049	Manage report	Send report		
UC050	1 Trainage Tepoti	Search report		
UC051	-	Cancel report		
UC052	-	View report list		
UC053	Price list	Reference price		
00000	1 fice list	Reference price		

UC054		View price list	
UC055	Account recharge	Account recharge	
UC056	Transaction history	Transaction history	
UC057	Login	Login	
UC058	Logout	Logout	
UC059	Connect to carrier	Connect to carrier	
		Carrier	
UC060	Bill of lading list	View bill of lading list	
UC061		Confirm complete transaction	
UC062		View bill of lading detail	
UC063		Auction bill of lading	
UC064		Search bill of lading	
UC065		Cancel bill of lading	
UC066	Manage profile	Edit profile	
UC067		View profile	
UC068		Change password	
UC069		Forget password	
UC070		Add company	
UC071	Manage report	View report list	
UC072		Search report	
UC073		Cancel report	
UC074		Send report	
UC075	Price list	Reference price	
UC076		View pricing list	
UC077	Transaction history	Transaction history	
UC078	Login	Login	
UC079	Logout	Logout	
UC080	Connect to goods owner	Connect to goods owner	
UC081	Account recharge	Account recharge	

Figure 2-1: Scope of CTC

2.3 Standard objectives

Metrics	Unit	Committed	Re-committed	Note
Start Date		03/01/2017		
End Date		19/04/2017		
Duration	Day	105		
Team Size	Person	5		
Billable Effort	Person-day	520		
Calendar	Person-day	520		

effort			
Effort Usage	%	100	

Figure 2-2: Standard objectives

2.4 Milestones and deliverables

No	Stage	Deliverable/	Delivery Date	Inspect	Final	Delivery
		Milestone				Location
1	Initiation	Deliver Report	09/01/2017			Supervisor
		No.1				
3	Initiation	Deliver Report	16/01/2017			Supervisor
		No.2				
4	Solution	Software	10/02/2017			Supervisor
		Requirement				
		Specification				
5	Solution	System	24/02/2017			Supervisor
		Architectural				
		Design				
6	Construction	Complete	18/03/2017			Supervisor
		Coding				
7	Construction	Deliver Report	24/03/2017			Supervisor
		No.5				
8	Construction	Deliver Report	17/04/2017			Supervisor
		No.6				
9	Termination	The last	19/04/2017			FU
		Document and				
		CD source code				
10	Termination	Project	26/04/2017			FU
		completed				

Figure 2-3: Milestones and deliverables

3 PPROJECT ORGANIZATION

3.1 Software Process Model

3.1.1 FPT Software Process Model

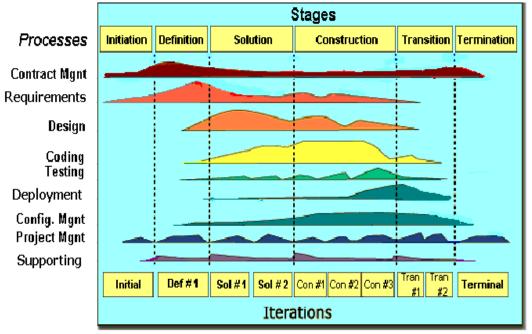


Figure 3-1: FPT Software process model

The software lifecycle is broken into *cycles*, each cycle working on a new generation of the product. The FPT Software process divides one development cycle in six consecutive *phases*:

- 1. Initiation phase
- 2. Definition phase
- 3. Solution phase
- 4. Construction phase
- 5. Transition
- 6. Termination

3.1.2 Project Life Cycle

Basing on FPT Software process and real-world project, we decided to divide the project into 4 phases: Initiation, Solution, Construction, and Termination:

- ❖ Initiation Phase: This is the explanatory phase of the project. Project objective and description is described at this stage. The purpose of this phase is to collect and understand business requirements, detail the project plan and agree upon a high level statement of work. Our primary objectives are complete project identification and project plan. After these are completed, the project is checked against the following criteria:
 - Identify business functions of the system
 - Determining the scope, conditions and limitations of the project
 - List the main functions of the system
 - List one or more suitable architecture for the system
 - Identify project risks
 - Complete Report #1, and Report #2
- ❖ Solution Phase: In this phase, the architecture of the system is designed. The goal is to translate requirements and specification into a technical solution to produce Technical Design.
 - Our primary objectives are complete Requirement Specification, Architecture Design and Database Design.
 - Finally, the plan must be provided (including estimates of cost and time) for the construction phase. The plan must ensure proper and accurate based on experience.
 - Complete Report #3 and Report #4
- **Construction Phase**: This is the longest phase of a project life cycle.
 - In this phase, all functions of the system will be installed. The installation will be divided into small stages, each stage of the installation a few functions. The results of each phase will be the release of the module function can be executed.
 - Construction and improvement of products until the final product is ready to deliver to the user. During this phase, all the components and other features of the application is developed and integrated into the product.
 - This phase emphasizes the resource management and control operations to optimize cost, time and quality.
 - Complete software packages and Report #5 and report #6
- **Termination Phase**: This is the final phase in the life cycle of a project.
 - Their products will be deployed to the client. The feedback received during the transfer process will be recorded and put on the new functional requirements or functionality enhancements in the next version of the product.
 - Phase transfer switch also includes the training system and the new system for the user.
 - Complete capstone project

3.2 Roles and Responsibilities

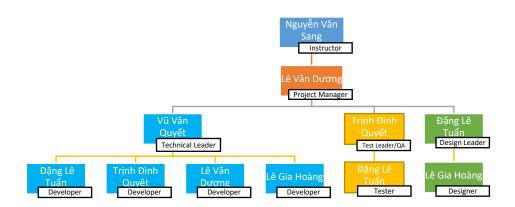


Figure 3-2: Roles and responsibilities

3.3 Organization Structure

Role	Responsibility
Project Manager	Planning, developing schedules, coordinating communication, generally responsible for keeping the team's focus on the main goal.
Technical Leader	Responsible for choosing and deciding what technologies should be used, as well as for overseeing the work being done by other developers.
Quality Assurance Manager	Ensuring the product meets the certain standards of quality from requirements.
Test Leader	Responsible for test execution, including test set-up and test run, evaluation of test run and error recovery, defect logging and test results recording.
Developer	Involve coding the product and reviewing code of other developers.
Designer	Involve designing product's user interface.
Tester	Involve testing the product.

Table 3-1: Project Structure

3.4 Project Team Member

Team Member	Role
DuongLV	Project Manager, Developer

QuyetVV	Technical Leader, Developer	
QuyetTD	Tester Leader / QA, Developer	
HoangLG	Developer, Designer	
TuanDL	Designer, Tester, Developer	

Table 3-2: Project Team Member

4 TOOLS AND INFRASTRUCTURES

4.1 Tool and Techniques

Programming languages	JavaScript, Java, Html
Framework	Java Server Face, Hibernate
Software architecture	Java Server Face
Version control	SVN
IDEs/Editors	Eclipse
UML tools	Astah Professional 7.0
Web server	Apache Tomcat 7
DBMS	MySQL
Deployment server	Apache Tomcat 7
Project management tool	Microsoft Project 2010
Development process	Rational Unified Process

Table 4-1: Project Team Member

4.2 Hardware requirement

- Personal computers for developing with the recommended configuration: 4GB of Ram DDR3, 100GB of hard disk SSD, Processor: 2.4GHz Intel Core i5
- A sever computers for testing with the Recommended configuration: 4GB of Ram DDR3, 100GB of hard disk SSD, Processor: 2.4GHz Intel Core i5

4.3 Software requirements

Operating system: Window 8.1, 10Web server: Apache Tomcat

- IDE: Eclipse- DBMS: MySQL

Soured control: Microsoft Project PlanDesign Graphic: Adobe Photoshop 6

- Contact tool: Skype

- Architecture design: Astah

5 SCHEDULE

5.1 Detailed schedule

Refers to "CTC_Project_Schedule_v1.0_EN" file.

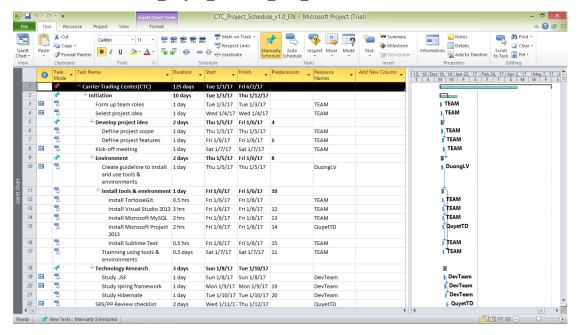


Figure 5-1: CTC Project Management file

5.2 Meeting Minutes

All meeting minutes will be written following this template:

Meeting/Project	CTC				
Name:					
Date of Meeting:		Time: (Type) hours (Face-to-face)			
Meeting Called by:	QuyetVV	Location:	FPT Uni	FPT University's Library	
Note Taker:	QuyetTD	Time Keeper:	DuongL	DuongLV	
1. Meeting Objective		1			
- Choose names, ideas for project					
 Choose names. 	. ideas for project	t			
- Choose names,	, ideas for projec	t			
	, ideas for projec	t			
- Choose names, 2. Attendance	, ideas for projec	t			
	Roles	t E-mail		Phone	
2. Attendance		E-mail	Of fact adv va		
2. Attendance Name	Roles		@fpt.edu.vn	Phone 0166-977-5349	
2. Attendance Name	Roles Project	E-mail			
2. Attendance Name Lê Văn Dương	Roles Project Manager	E-mail DuongLVSE03190	@fpt.edu.vn	0166-977-5349	

3. Content

Trịnh Đình Quyết

Test

Leader/QA

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4. Note

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Table 5-1: Meeting Minutes Template

QuyetTDSE03159@fpt.edu.vn

0964-657-385

5.3 Communication Plan

Weekly meeting schedule: We use Iterative and Incremental Process Model, then we divide the system into two sub-systems (CTC services and CTC Front-end), each sub-system is divided into a bunch of small tasks. Each task is recorded to Trello then estimated depending on difficulty and the amount of work by the whole team, after that the Team Leader will assign the task to team members and depending on difficulty, the Technical Leader will assign deadlines for each task. We will have a meeting every Monday to inform to all team about what each member finished last week, the status (fast, on time or slow), the

issues met and how to solve them. If any member raises any issue, the whole team will help to find out a solution together. After that, the team will define detailed stories for next week tasks and estimate how long it takes to finish them.

Daily discussing schedule: Each sub-system has one development team with different schedule. Whenstarting work-day, each team will have a stand-up meeting to inform to others: "What did I do yesterday?", "What will I do today?" and "Are there any impediments in my ways?". By focusing on what each person accomplished yesterday and will accomplish today, the team gains an excellent understanding of what work has been done and what work remains.

Unscheduled meeting: If someone has an important problem that he wants to solve immediately, we will have a meeting for discussion, usually via some online channel: Facebook, Skype, or Phone.

6 RISK MANAGEMENT PLAN

No	Description	Avoidance plan	Contigency plan	Status
R1	Illness or absence of team members	Member has to notice to the team about absence period and the plan of how to keep up with the work process.	Ensure that the absence of a member will not affect others and always have plans to deal with this problem.	Closed
R2	Business problem	Any ideas are welcome but members have to discuss with others and always focus on the reality and possibility.	Make sure the business logic of any ideas is carefully analyzed.	Closed
R3	Change management overload	A large number of change requests dramatically raises the complexity of the project and distracts key resources.	If there is a "must be changed" requirement, all team members must join the meeting to decide whether it should be implemented or not.	Closed
R4	Project team misunderstan d requirements	When the project team a gap misinterprets requirements develops between expectations, requirements and work packages.	Make sure any miscommunication has to be resolved.	Closed
R5	New technology	Choosing technology based on member's qualification. There are some issues canot resolve	When someone chooses a new technology, he/she has to explain to all team members about the decision.	Closed

Table 6-1: Risk Management

Communication channel: Our main communication channels are sky. On the other hand, we used face-to-face meeting, Email, Messenger. However, we sometimes make a phone call or instant message if someone has a problem.

7 EFFORT ESTIMATION

Task name	Worst case (days)	Best case (days)	Most likely (days)	Expected case (days)
Initiation	100	95	97	98
Solution	100	95	97	98
Construction	200	190	195	195
Termination	125	120	120	120
Total	525	500	509	511

Table 7-1: Effort Estimation

8 CODING CONVENTION

Reference to CTC_Coding_Convention_Oracle_EN