PET SHOP ONLINE

PSO Team

FPT University

April 24, 2015

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TEAM MEMBER

Supervisor

Trần Đình Trí

Team Leader

Hoàng Đức Đạt

Technical Leader

Nguyễn Anh Huỳnh

Developer

Đỗ Minh Cương

Tester

Chu Thị Trang

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TABLE CONTENT

1. Project Background
2. Project Management Plan
3. Requirement Specification
4. Software Design
5. Testing
6. Lesson Learned
7. Demo and Q&A

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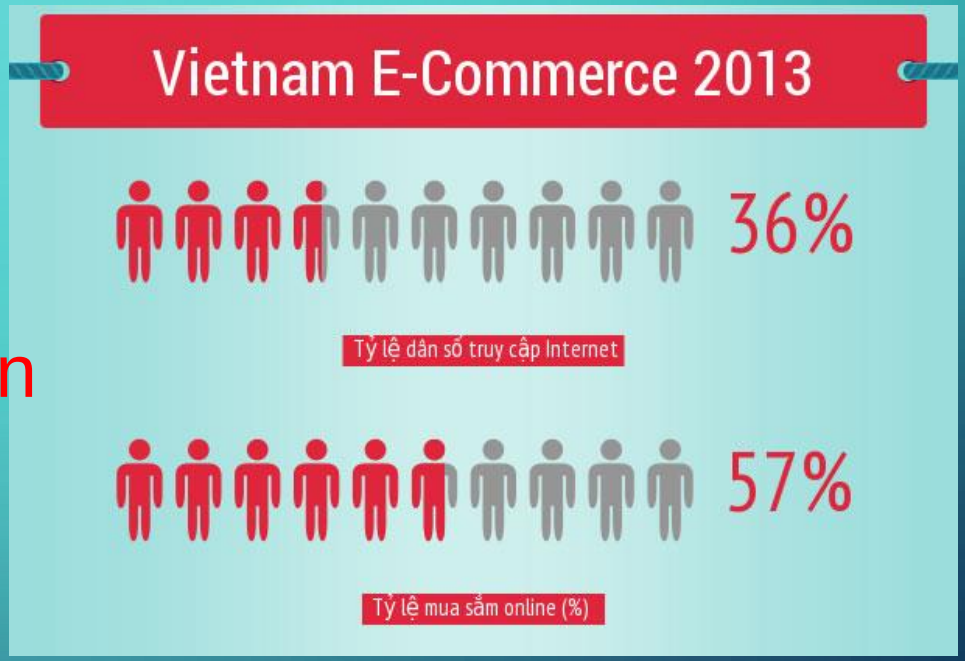
PROJECT BACKGROUND

E-commerce is growing rapidly
in Vietnam, especially in young man



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PROJECT BACKGROUND

Pet's owner – hot trend in teen Viet

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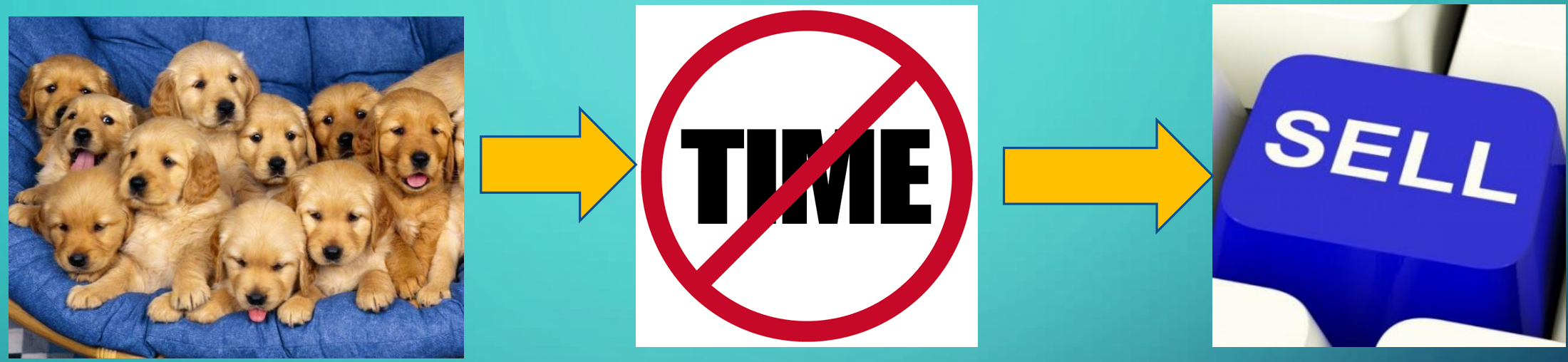
PROJECT BACKGROUND



Need somewhere to sell !!!

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PROJECT BACKGROUND

Project Idea !

Shortest way seller can find buyer

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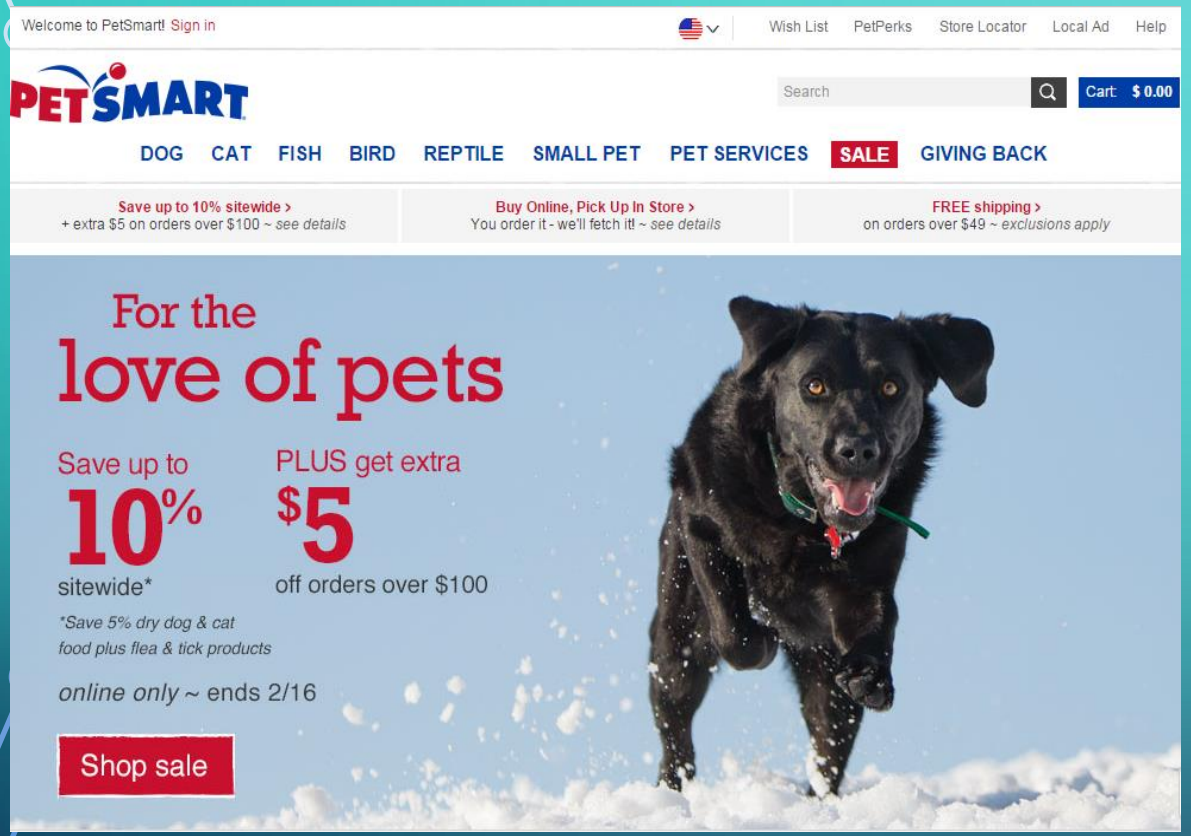
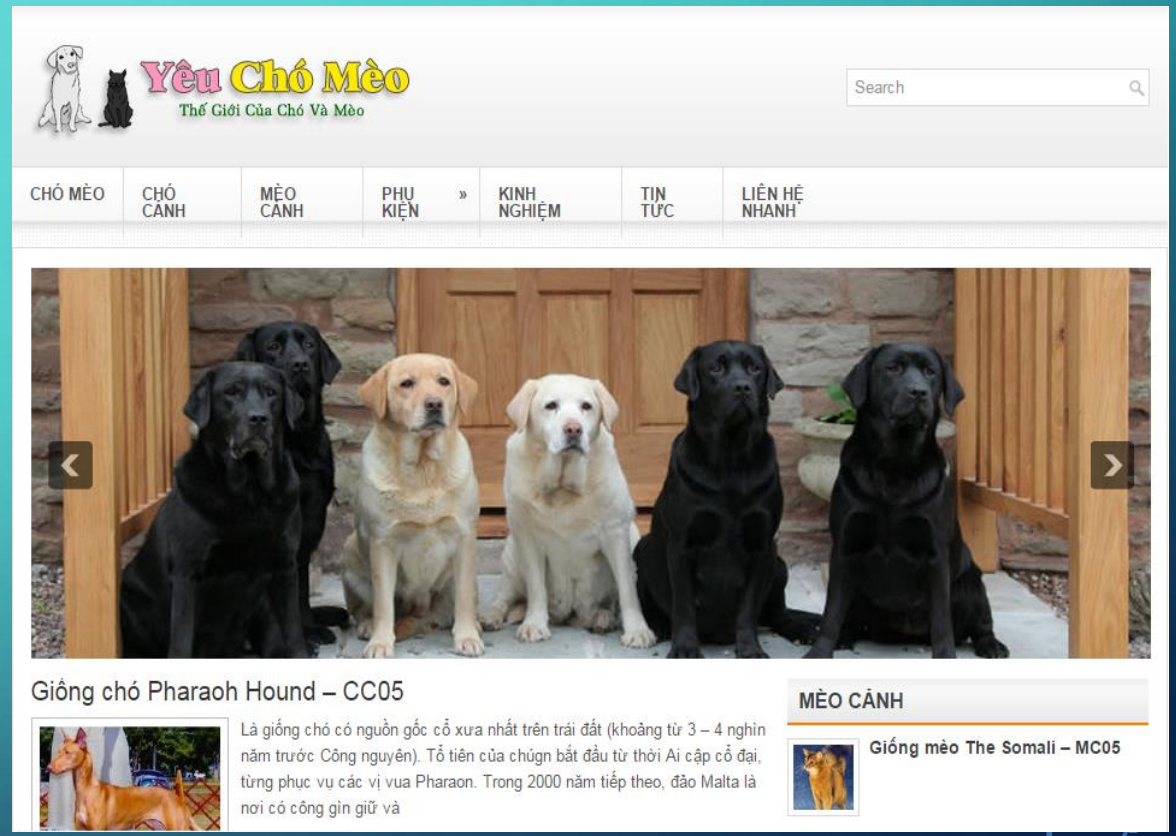
EXISTING SYSTEM

Petsmart.com



Yeuchomeo.com



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EXISTING SYSTEM

Features comparing

	Yeuchomeo.com	Petsmart.com
Purpose	Trading pets and other items for pets.	Trading pets and other items for pets; connecting people and pets: PetSmart Gives Back, Adopt a Pet…
Pros	- Fast, easily and conveniently (Users don't have to register). - It has applications on mobile.	- Easily and conveniently (Users don't have to register). - It provides a wide choice of services and products
Cons	-Security is not safe.	

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MAIN OBJECTIVES

- Create shop for selling pet.
- Create virtual pet markets.
- Share pet care experience.

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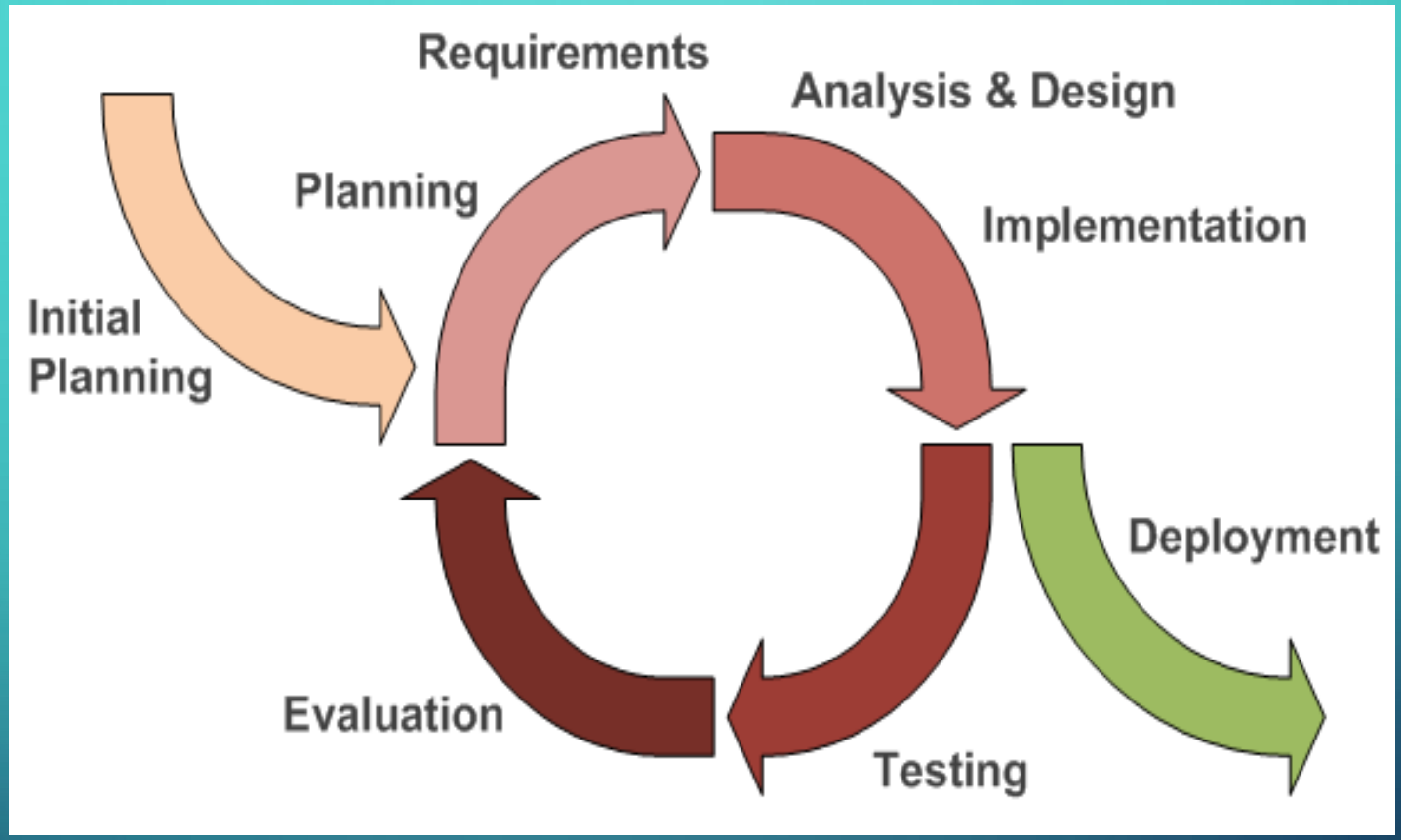
ITERATIVE PROCESS MODEL



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TEAM WORK

• 6 hours per day	• Group meeting 2 times per week	• FPT University Library • Home's member
Working time	Meeting	Working space
• one time per week	• Facebook • Google Mail • Skype • Mobile Phone	• 1 times per month
Meeting with Supervisor	Communications Tool	Team Building

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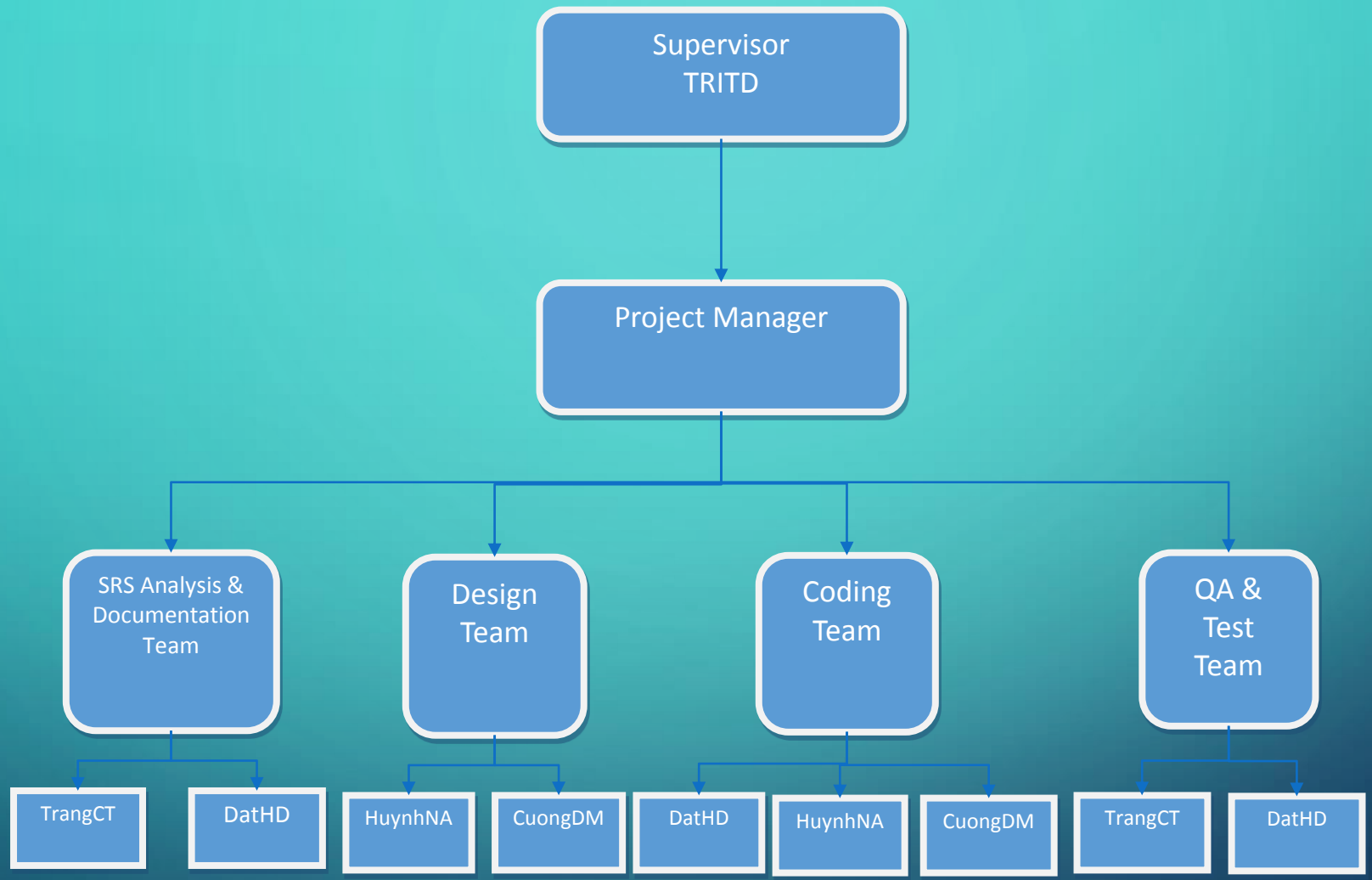
ROLES AND RESPONSIBILITIES



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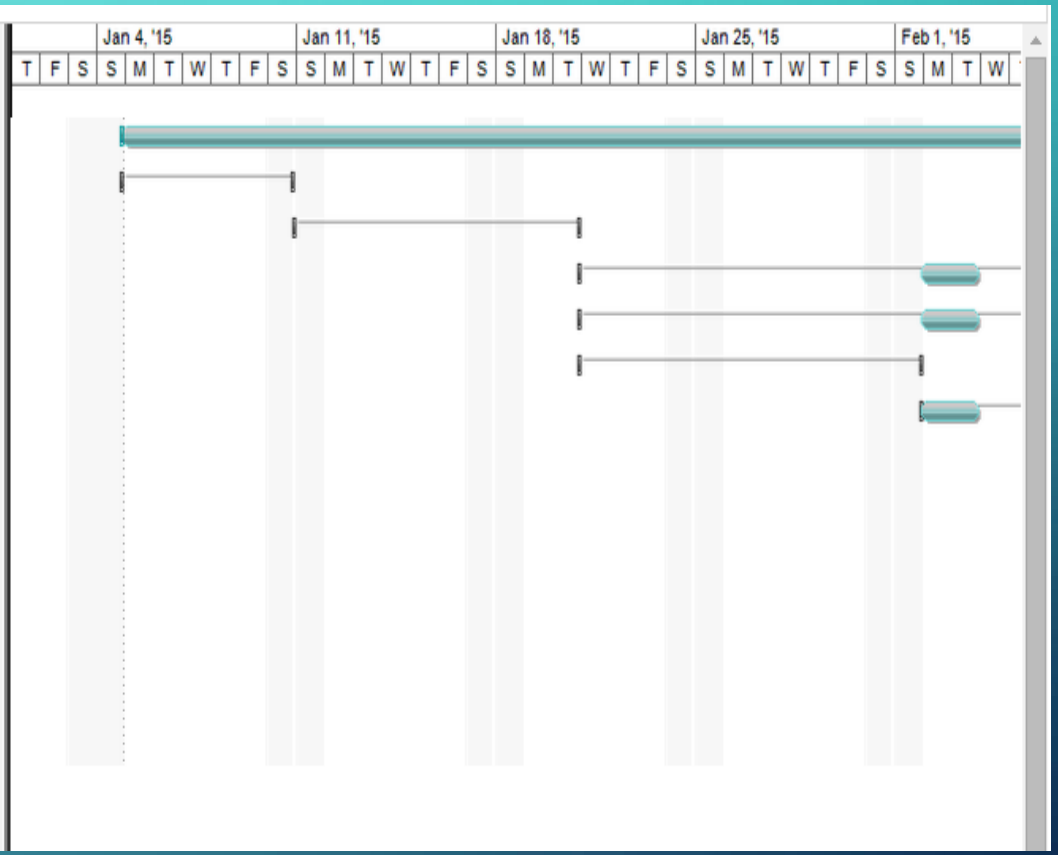
WBS AND GANTT CHART

	Task Mode	Task Name	Duration	Start	Finish	Pre
1	Manual	PSO	77 days	Mon 1/5/15	Mon 4/20/1	
2	Manual	Initiation	6 days	Mon 1/5/15	Sat 1/10/15	
9	Manual	Planning	8 days	Sun 1/11/15	Tue 1/20/15	
17	Manual	Executing	65 days	Wed 1/21/15	Mon 4/20/1	
18	Manual	Phase 1	48 days	Wed 1/21/15	Fri 3/27/15	
19	Manual	Requirement	9 days	Wed 1/21/15	Sun 2/1/15	
31	Manual	Design	14 days	Mon 2/2/15	Thu 2/19/15	
39	Manual	Coding and Testing	21 days	Sun 3/1/15	Fri 3/27/15	
54	Manual	Phase 2	15 days	Sat 3/28/15	Thu 4/16/15	
55	Manual	Requirement	1 day	Sat 3/28/15	Sat 3/28/15	
57	Manual	Design	1 day	Sun 3/29/15	Sun 3/29/15	
59	Manual	Coding and Unit test	6 days	Mon 3/30/15	Sun 4/5/15	
63	Manual	Testing	7 days	Mon 4/6/15	Tue 4/14/15	
69	Manual	Closing	9 days	Wed 4/15/15	Sat 4/25/15	



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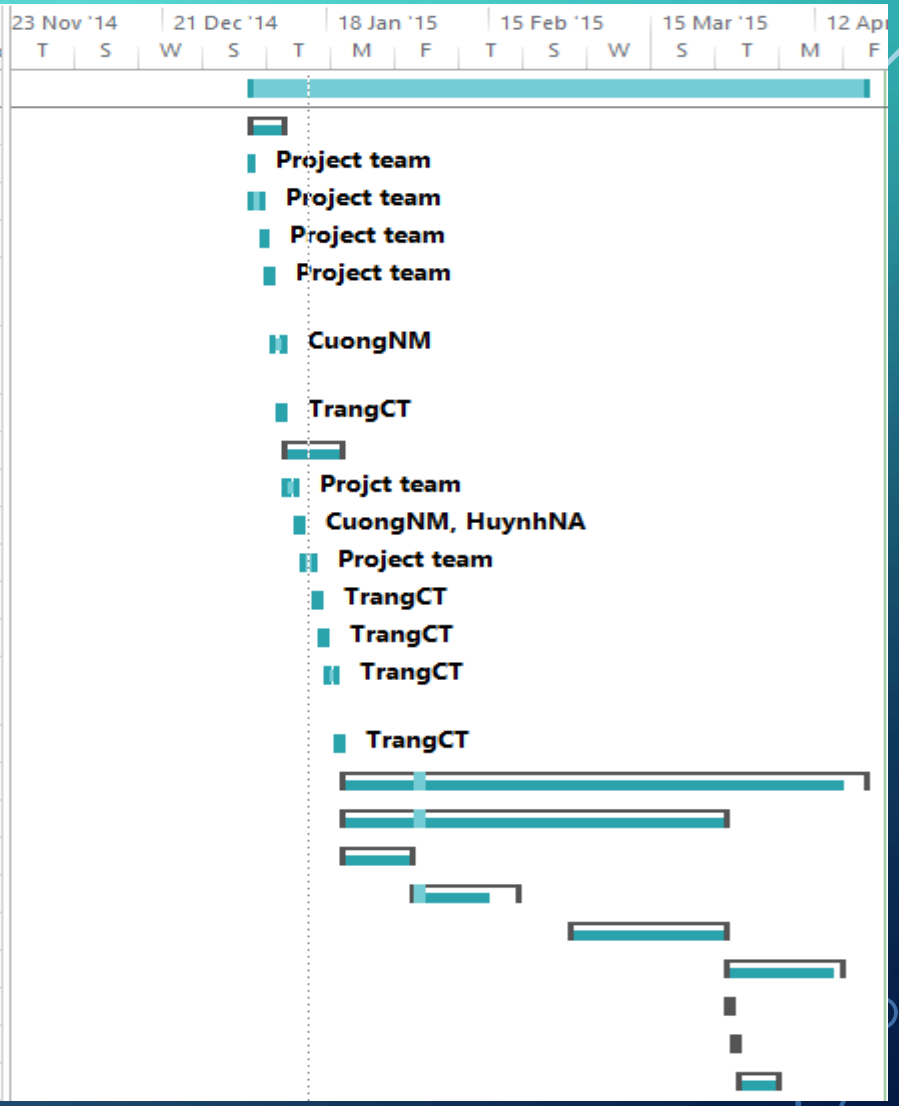
WBS AND GANTT CHART

	Task Mode	Task Name				Resource Names
1		**PSO**	77 days	Mon 05-01-15	Mon 20-04-	
2		**Initiation**	**6 days**	**Mon 05-01-15**	**Sat 10-01-1**	
3		Initial Meeting	0.25 days	Mon 05-01-15	Mon 05-01-	Project team
4		Project aims and objective	2 days	Mon 05-01-15	Tue 06-01-1	Project team
5		Define business rules	1 day	Wed 07-01-15	Wed 07-01-	Project team
6		Review and complete Project ideas	1 day	Thu 08-01-15	Thu 08-01-15	Project team
7		Create Report 1: Project Introduction	2 days	Fri 09-01-15	Sat 10-01-15	CuongNM
8		Update, finalize and summit Repor	1 day	Sat 10-01-15	Sat 10-01-1	TrangCT
9		**Planning**	**8 days**	**Sun 11-01-15**	**Tue 20-01-1**	
10		Outline and approach used	2 days	Sun 11-01-15	Mon 12-01-	Projct team
11		Define technologies and tools for p	1 day	Tue 13-01-15	Tue 13-01-1	CuongNM, Huyn
12		Install and Configuration tools	2 days	Wed 14-01-15	Thu 15-01-1	Project team
13		Develop project plan and work plar	1 day	Fri 16-01-15	Fri 16-01-15	TrangCT
14		Create Work breakdowns structure	1 day	Sat 17-01-15	Sat 17-01-1	TrangCT
15		Create Report 2: Project Management Plan	2 days	Sun 18-01-15	Mon 19-01-15	TrangCT
16		Update, Finalize and Summit Repor	1 day	Tue 20-01-15	Tue 20-01-1	TrangCT
17		**Executing**	**65 days**	**Wed 21-01-15**	**Mon 20-04-**	
18		**Phase 1**	**48 days**	**Wed 21-01-15**	**Fri 27-03-15**	
19		**Requirement**	**9 days**	**Wed 21-01-15**	**Sun 01-02-1**	
31		**Design**	**14 days**	**Mon 02-02-15**	**Thu 19-02-1**	
39		**Coding and Testing**	**21 days**	**Sun 01-03-15**	**Fri 27-03-15**	
54		**Phase 2**	**15 days**	**Sat 28-03-15**	**Thu 16-04-1**	
55		**Requirement**	**1 day**	**Sat 28-03-15**	**Sat 28-03-1**	
57		**Design**	**1 day**	**Sun 29-03-15**	**Sun 29-03-1**	
59		**Coding and Unit test**	**6 days**	**Mon 30-03-15**	**Sun 05-04-1**	



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PROJECT TOOL: SOFTWARE

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TECHNOLOGIES

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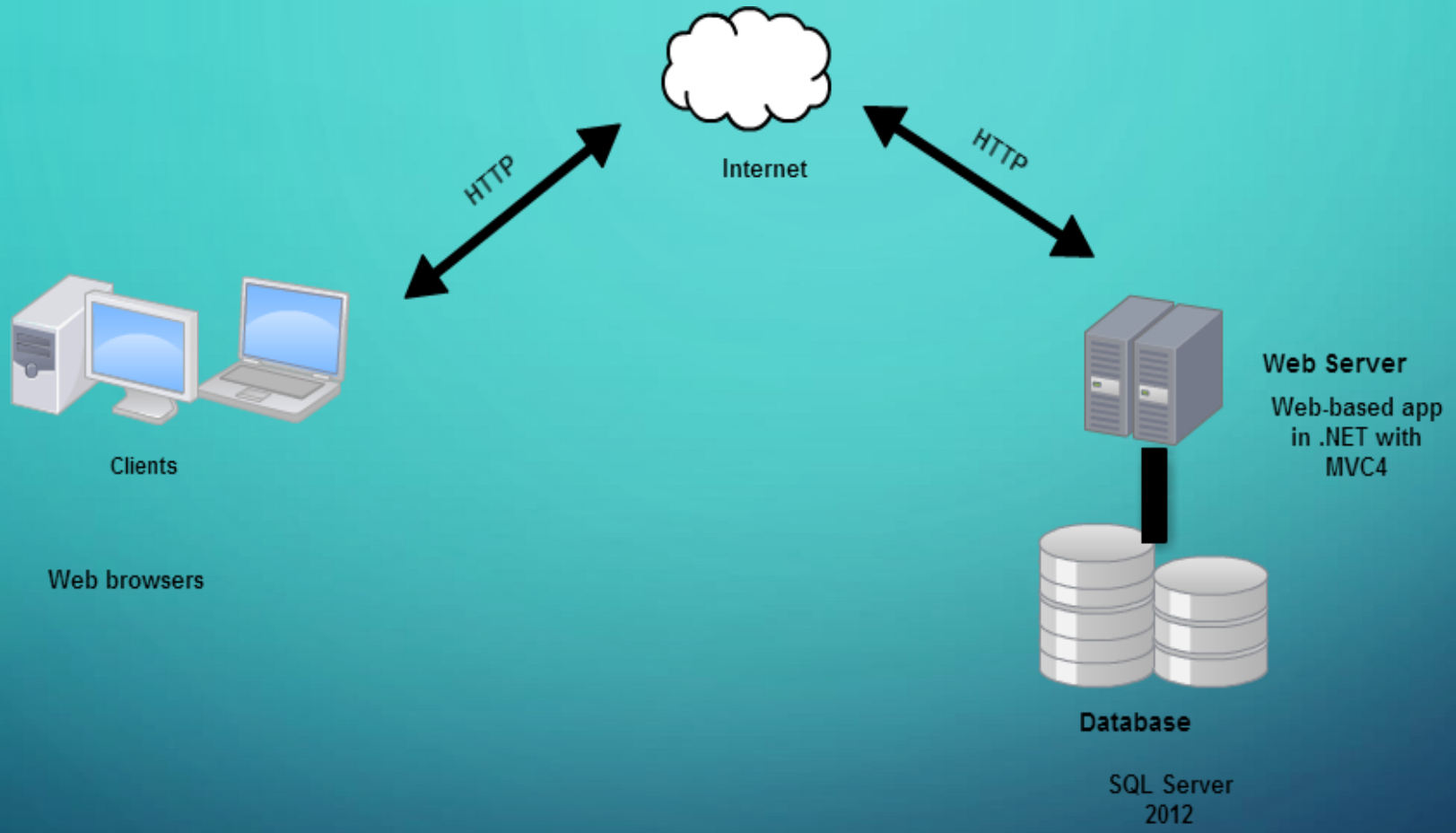
SYSTEM OVERVIEW



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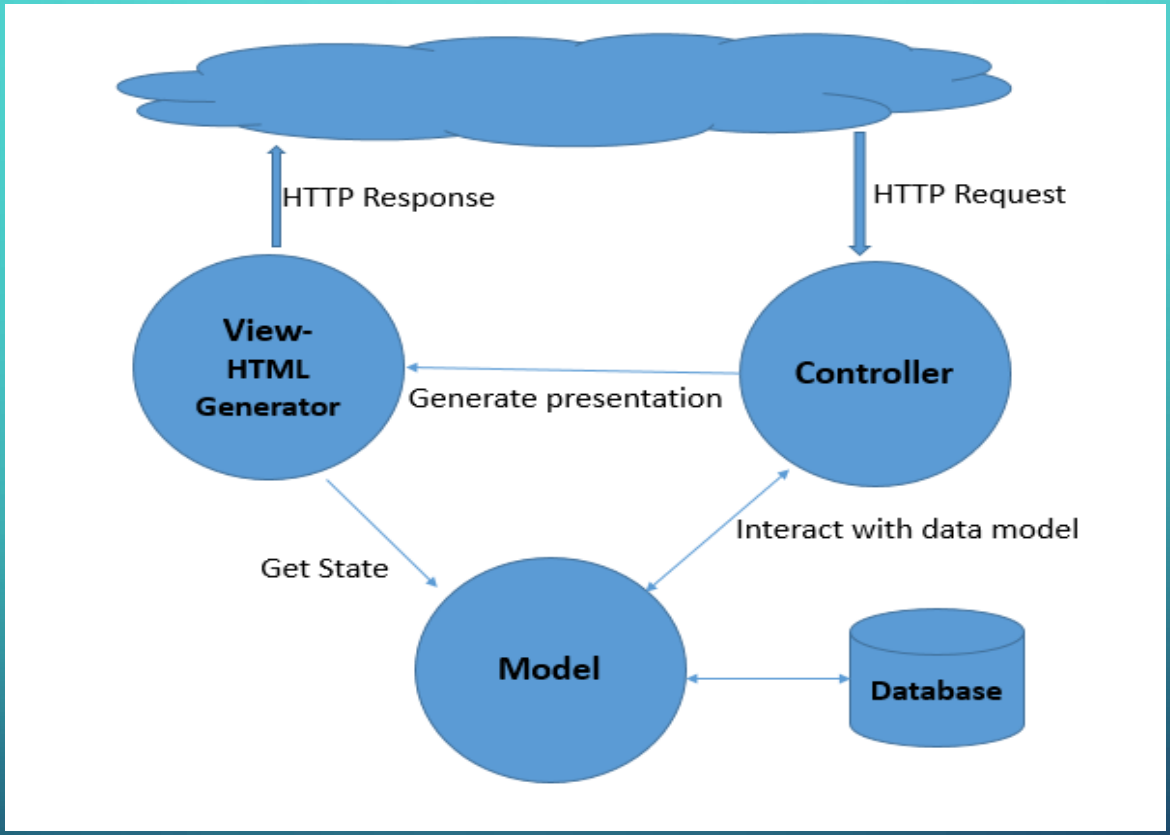
ARCHITECTURE DESIGN



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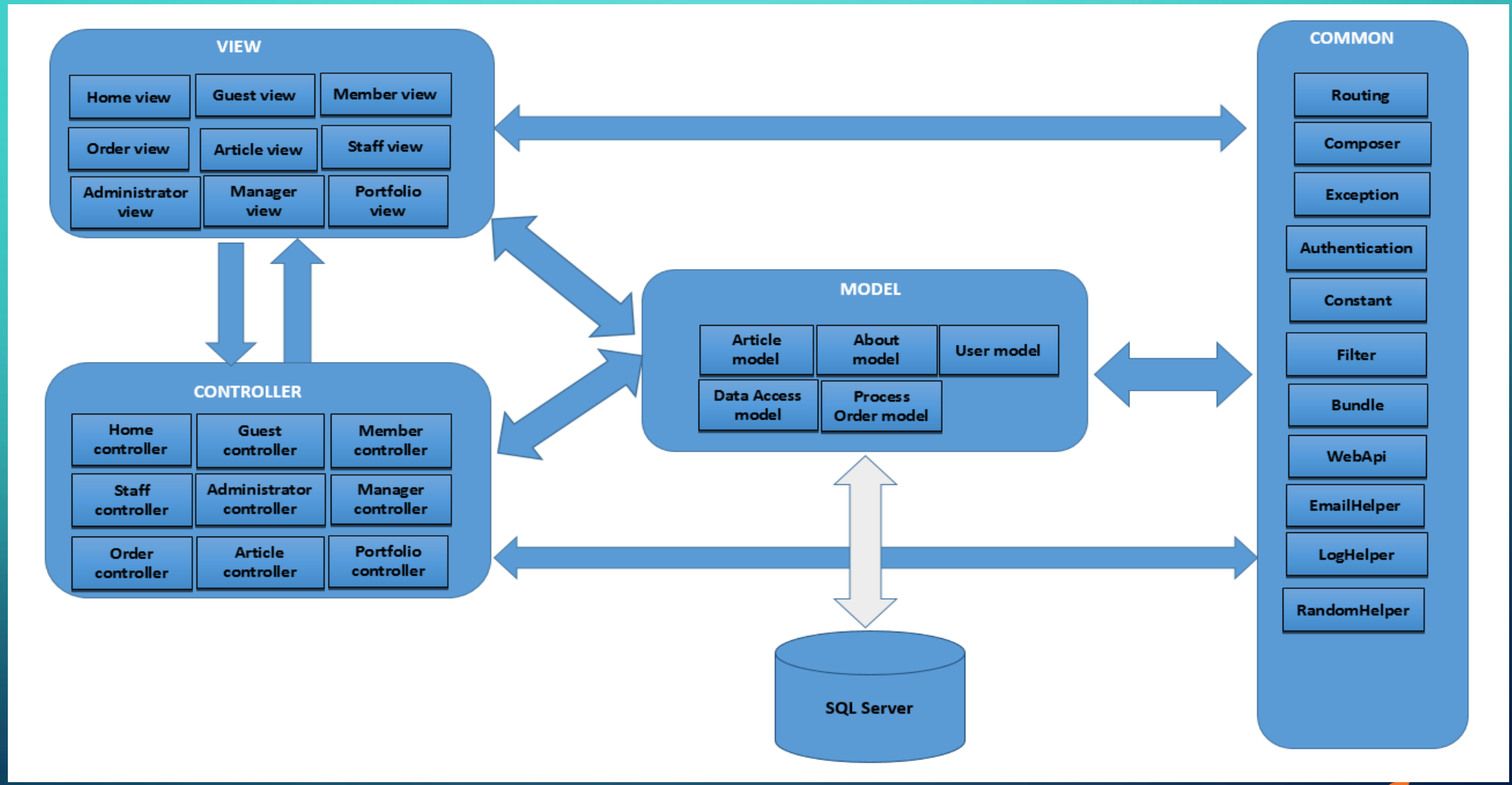
COMPONENT DIAGRAM



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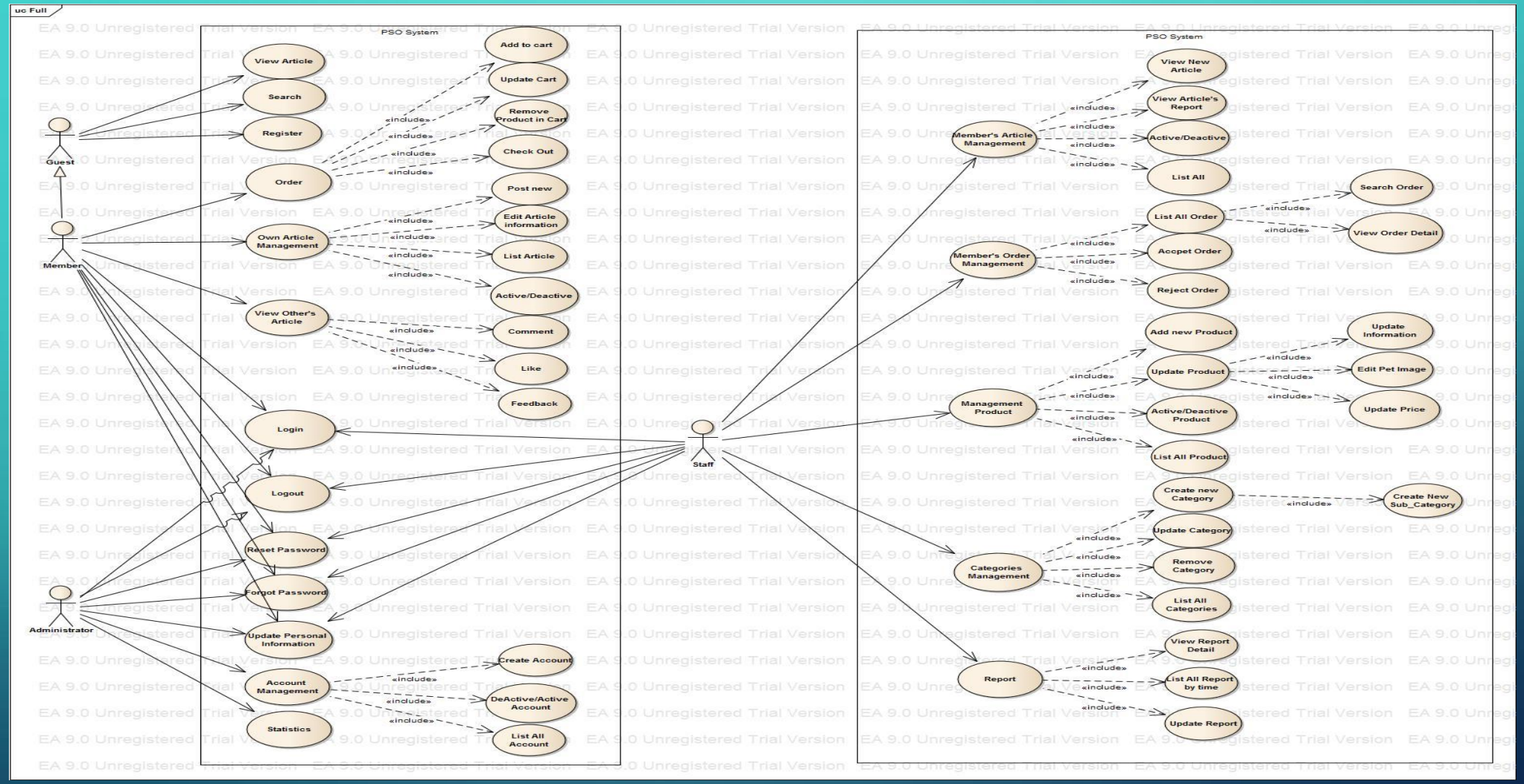
PROJECT RISK MANAGEMENT

No	Description	Root Cause	Avoidance plan	Contingency plan	Status
1	**Team members can miss some important information.**	- Don't use common tool to communicate. - Members are too busy to check notifications or messages.	- Come to agreement of which is the main communication tool all members use. - Use phone call in case of important situations. - Use reminder web service to assign task and tracking work schedule.	- Review all information and tasks in the end of the wrap-up meeting.	Close
2	**The project is not on time.**	- Underestimate time of project. - The scope of project is too big for team. - Spend too much time to research and study but don't start coding.	- Keep track with capstone's deadline. - Ask supervisor for advice to define suitable scope. - Put high priority on main functions. - Start coding as early as possible.	- Work together for tracking schedule.	Close
3	**Poor experience of evaluation make miss scope.**	- This project to need some new technique to meet scope. - Some team members do not work in web development function. - Team member do not have experience about this domain knowledge.	- List tasks and check continuously. - Evaluate quality and progress weekly.	- Training some new technique like: C# .NET and how to use, MVC4, web remind… - Assign one member to research about domain knowledge and create business annalistic.	Close
4	**Conflict between team members**	- Opinion disagreements - Some team members don't get along with others.	- Organize some team buildings to bond members together.	- Talk with each member to find the solution.	Close
5	**Productivity is low**	- Some members spend too little time to do project. - New technique required a lot of time to research and study.	- Set rule with money penalty for who doesn't finish job on time. - Set minimum working time for every team members.	- Tell team members to rearrange their working time. - Work overtime to study new technique.	Close
6	**Data lost**	- Lost data because do not backup the data. - Someone merge code make lost another one code.	- Define a schedule to back up project's data	- Restore project's data. - Using Dropbox to back- up data.	Close

USE CASE DIAGRAM



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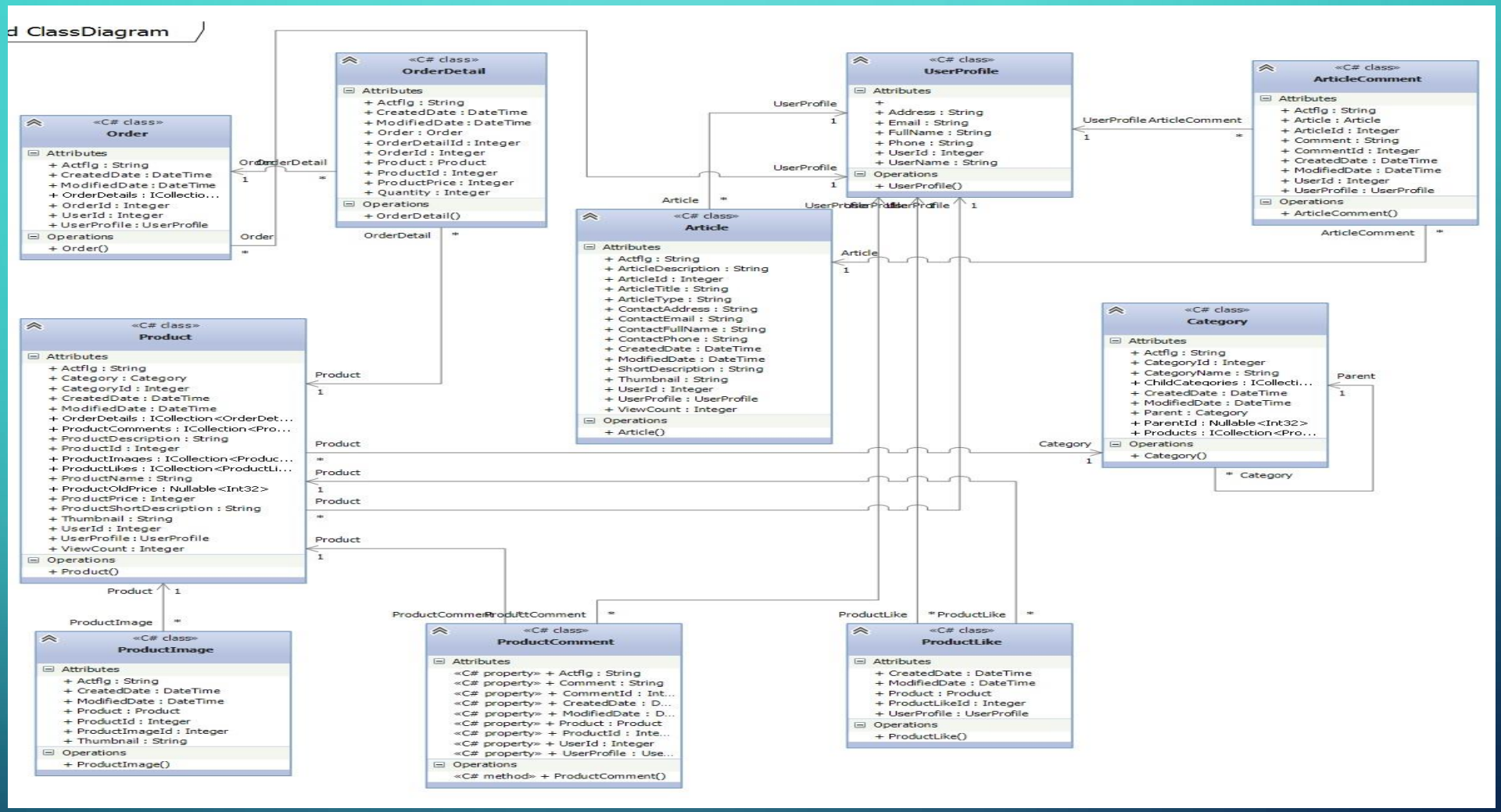
CLASS DIAGRAM



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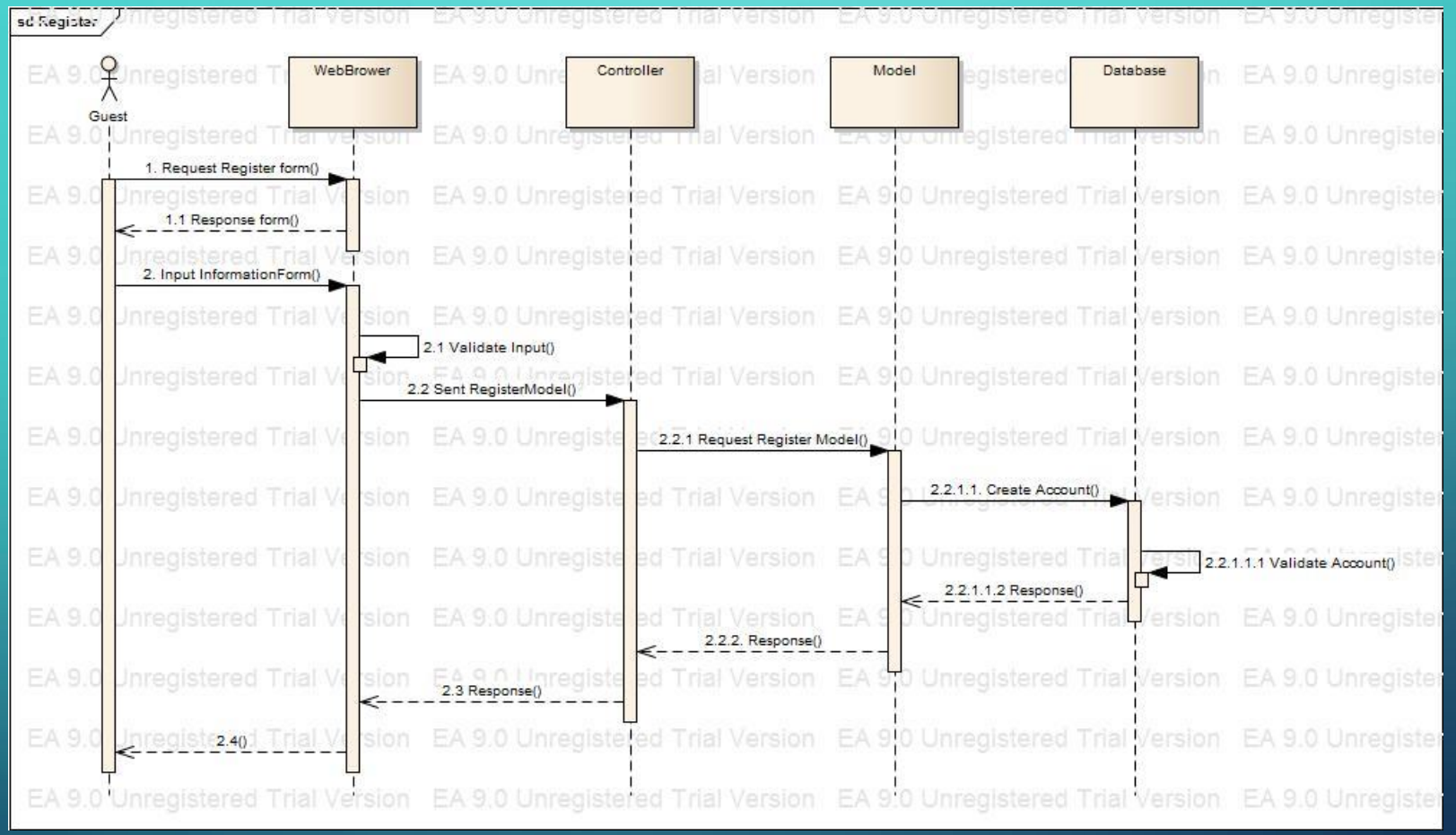
SEQUENCE DIAGRAM



Register

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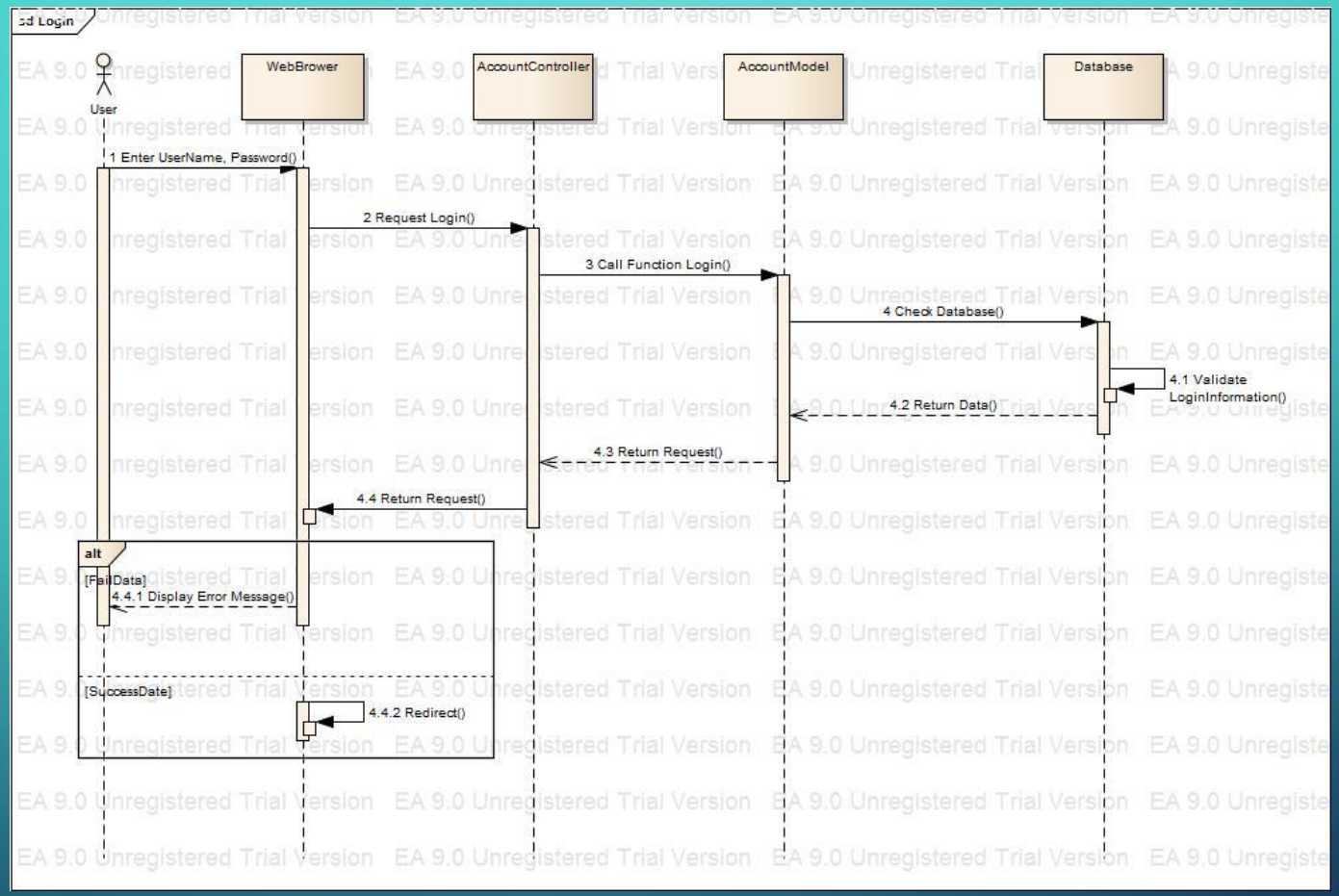
SEQUENCE DIAGRAM



Login

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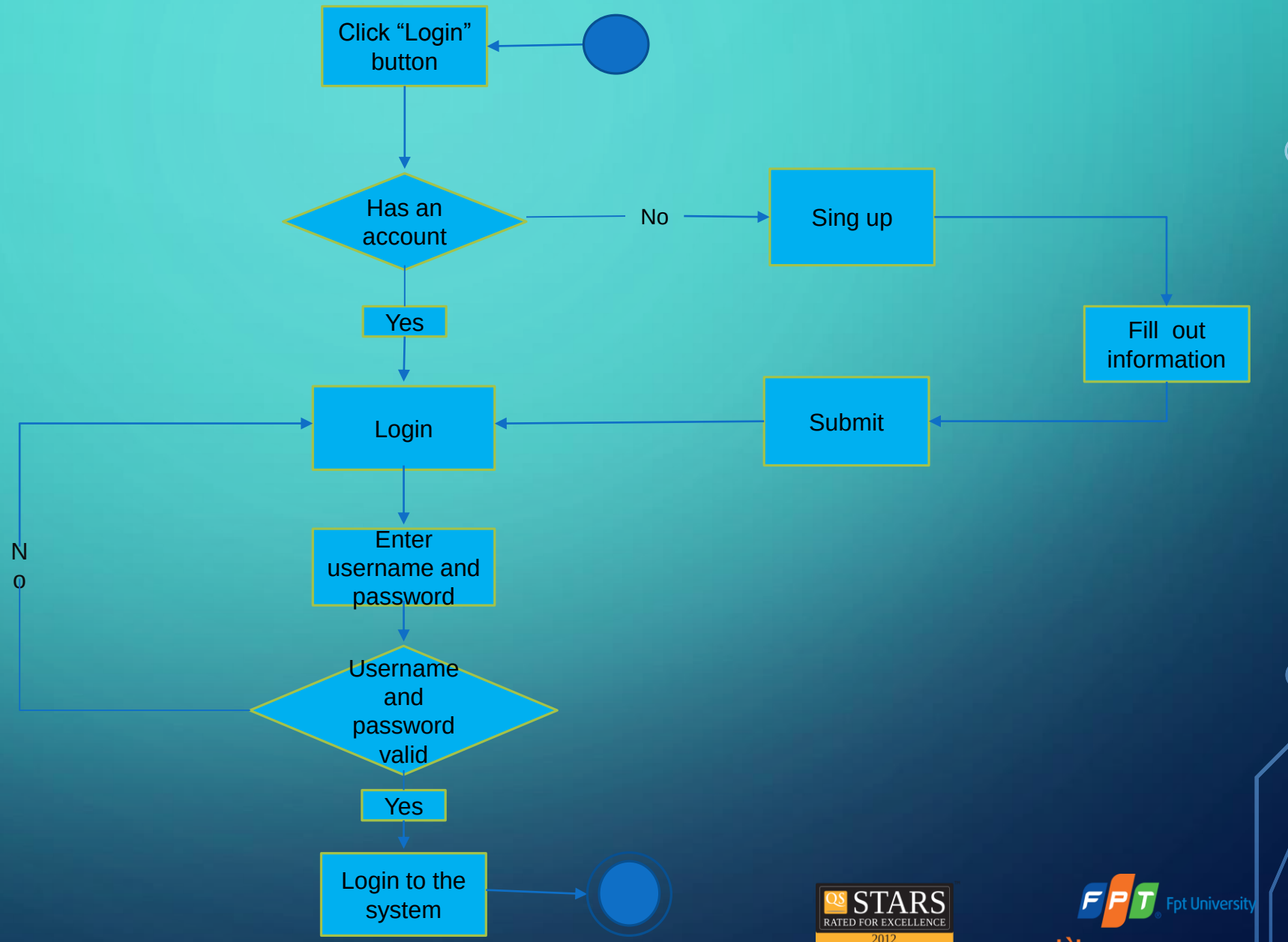
FLOW CHART



Login

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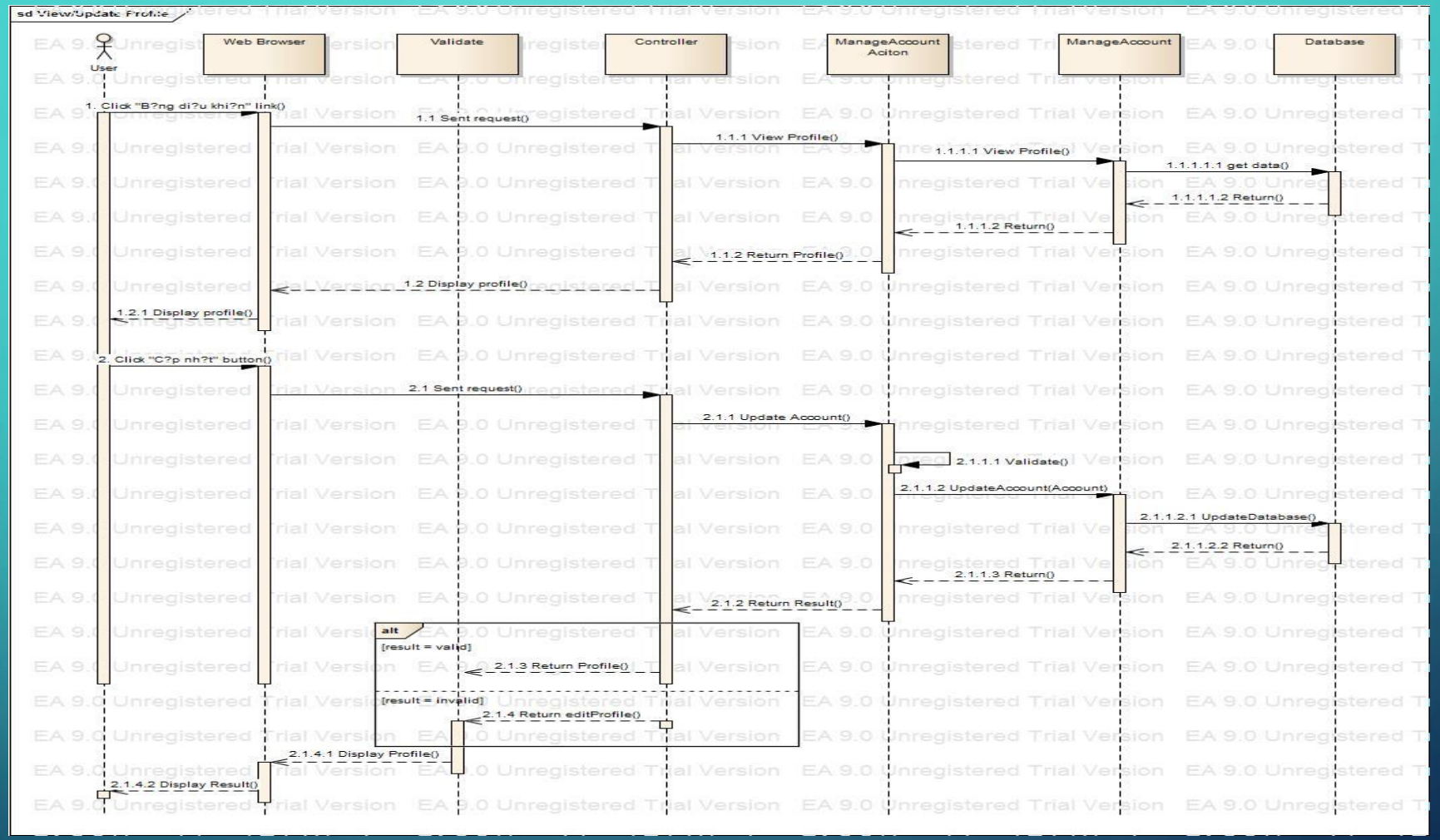
SEQUENCE DIAGRAM



UpdateProfile

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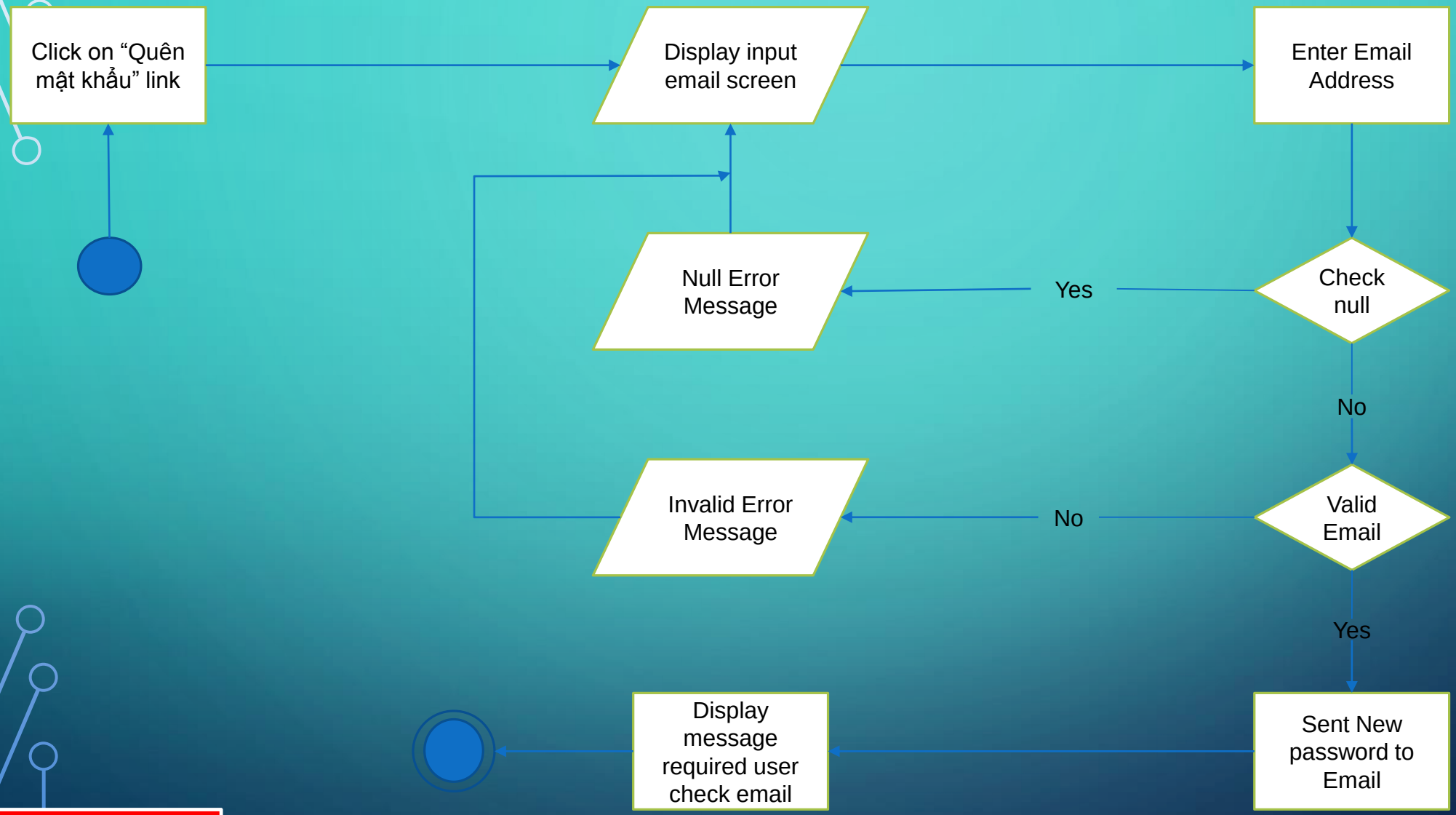
FLOW CHART



Reset Password

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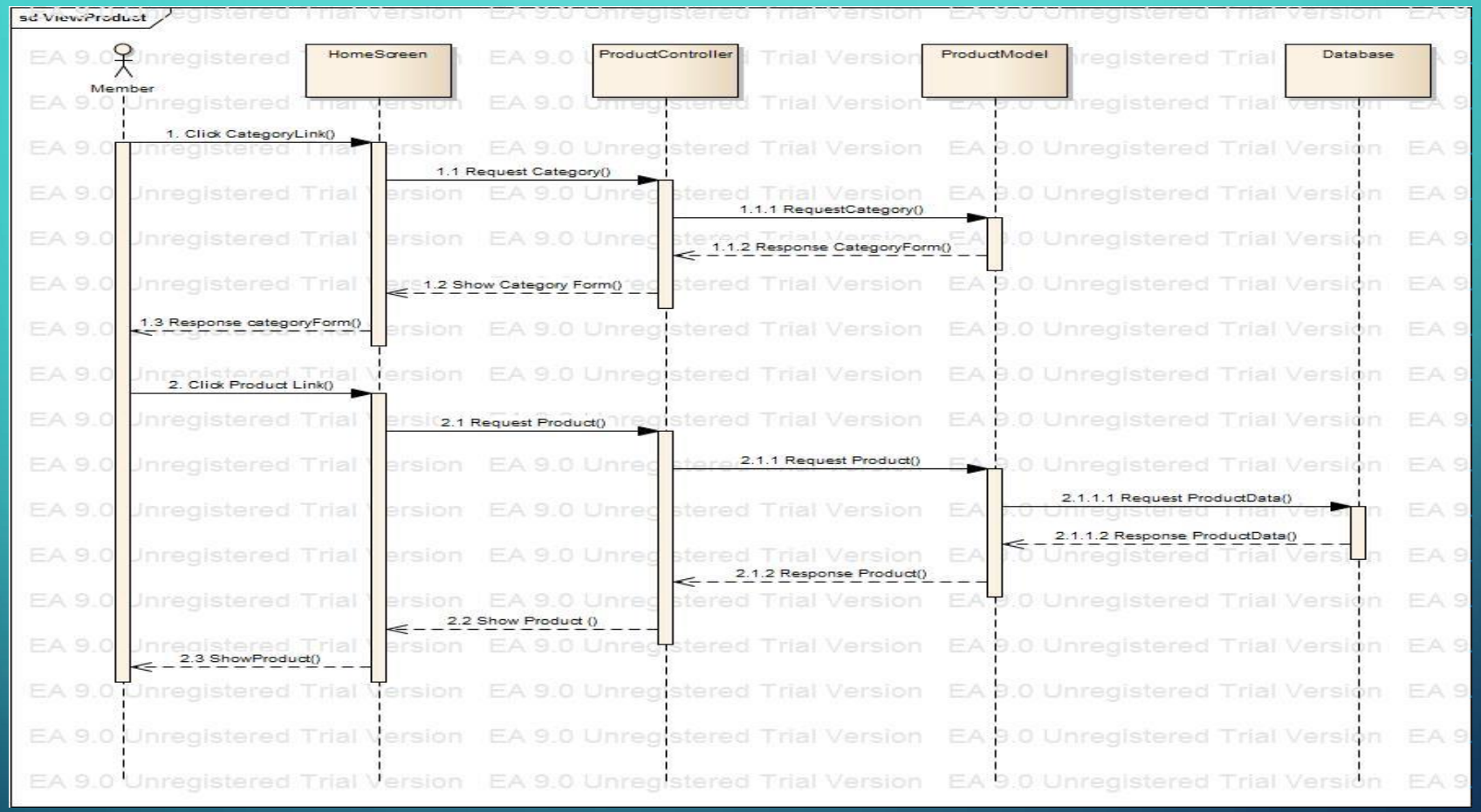

ViewProduct

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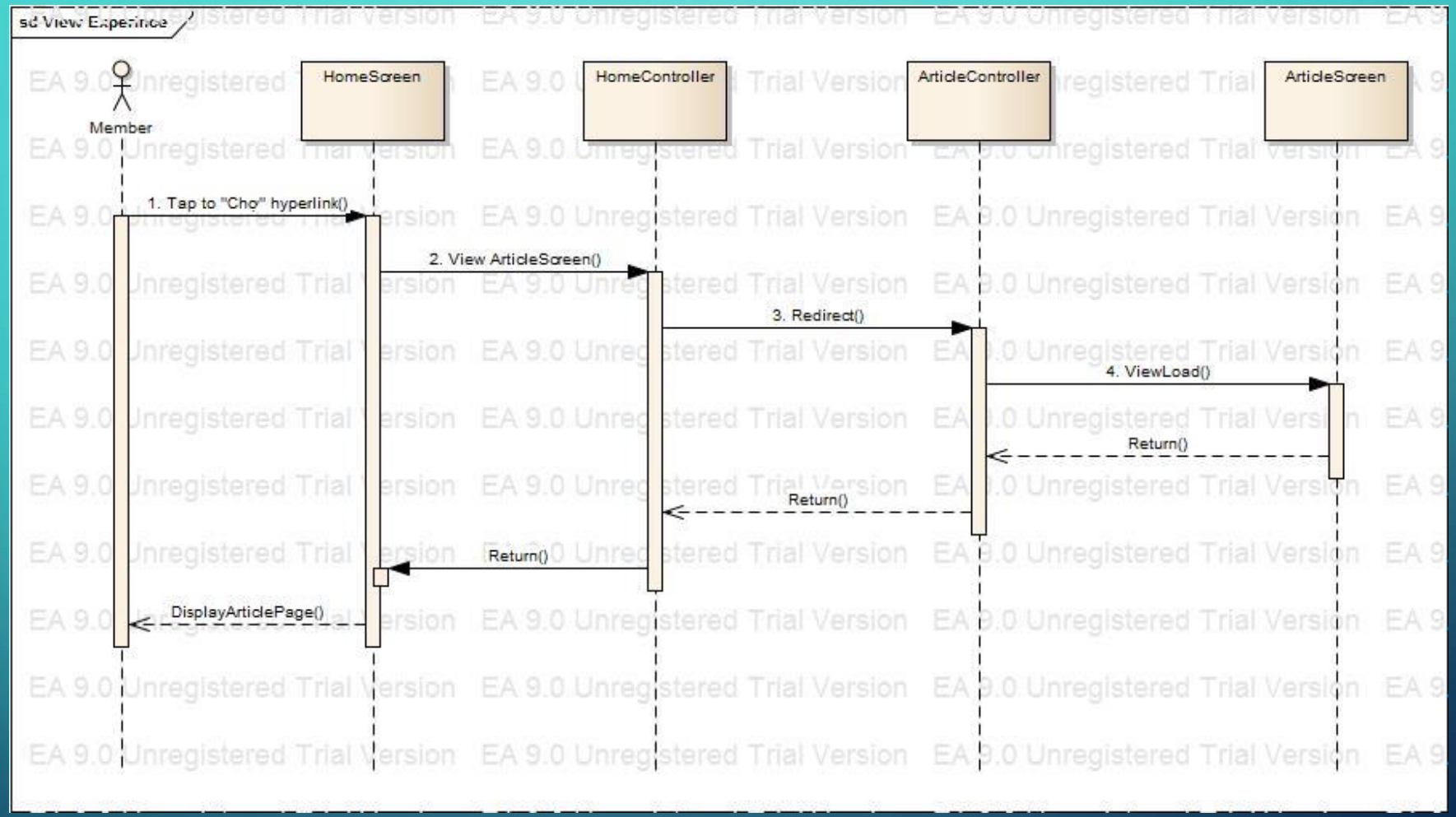
SEQUENCE DIAGRAM



ViewArticle

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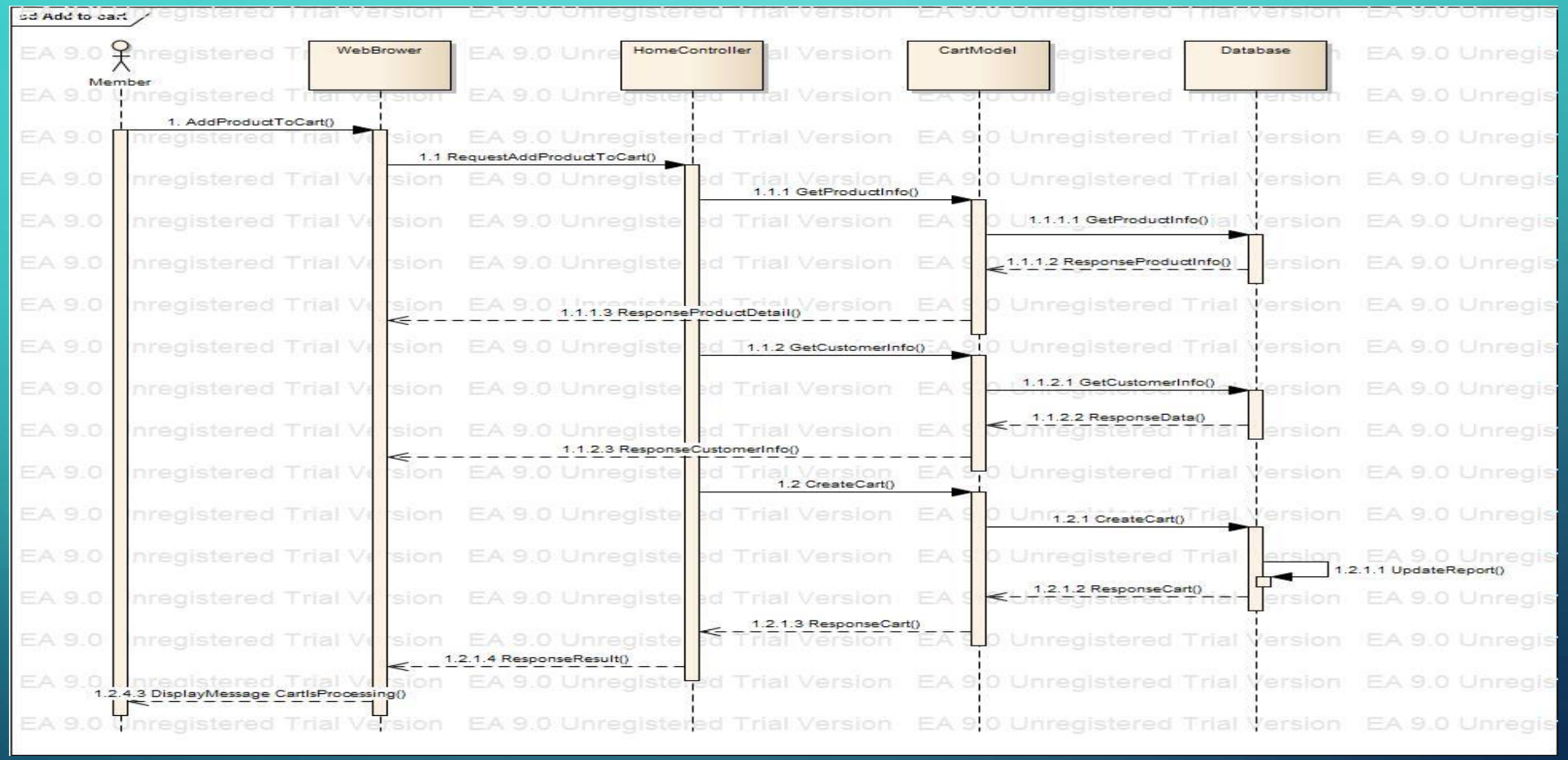

AddtoCart

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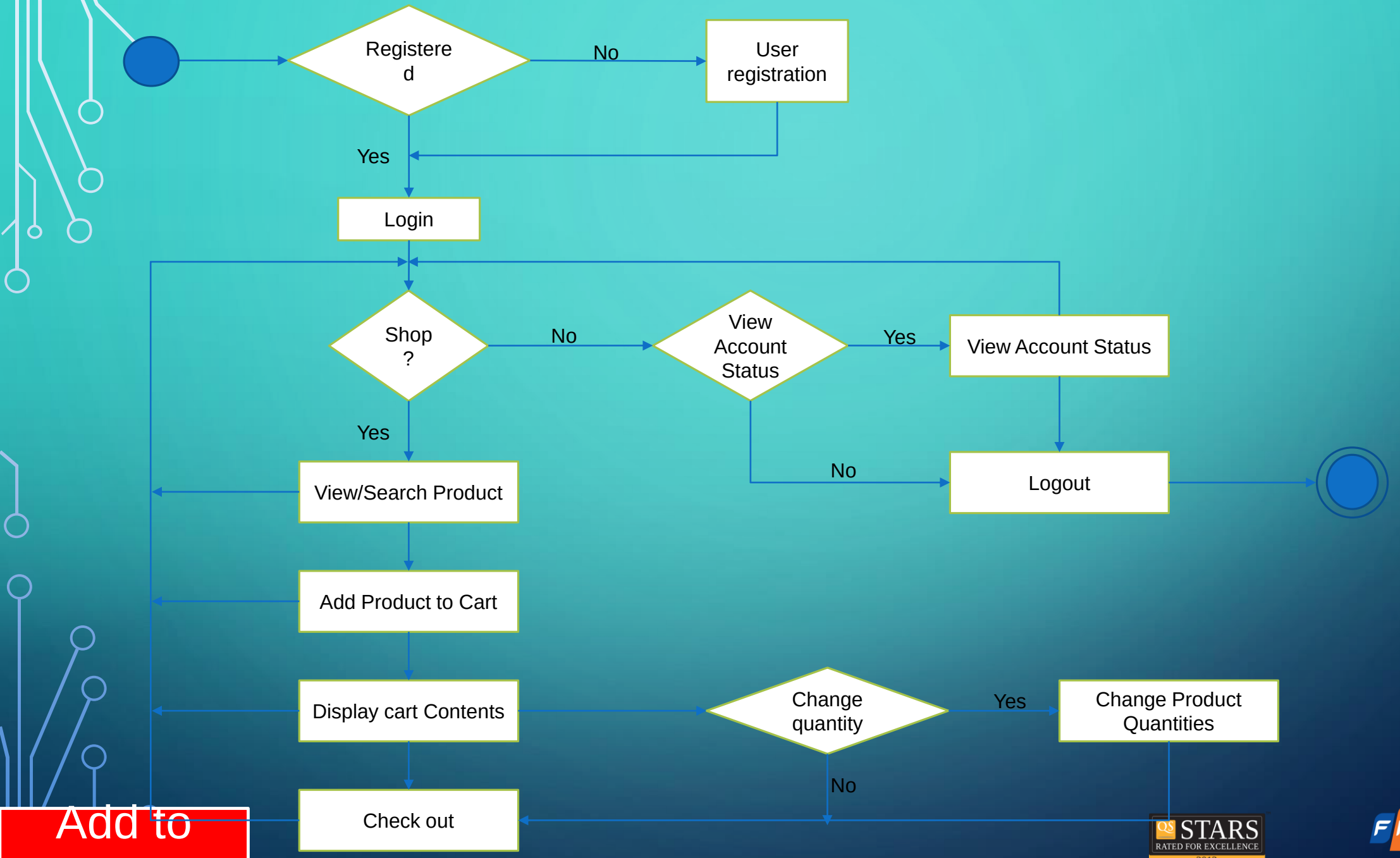

Add to cart

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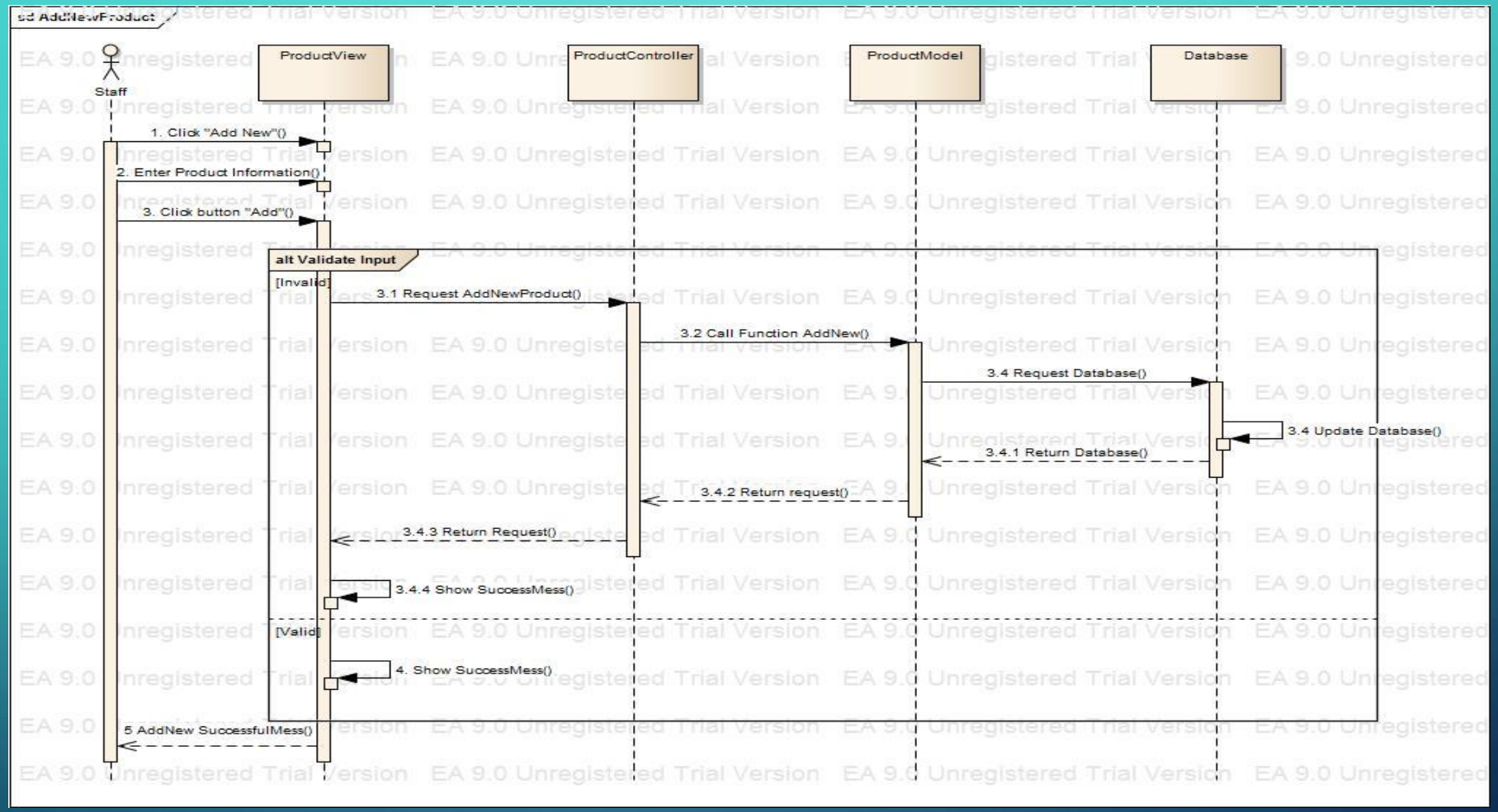
SEQUENCE DIAGRAM



AddNewProduct

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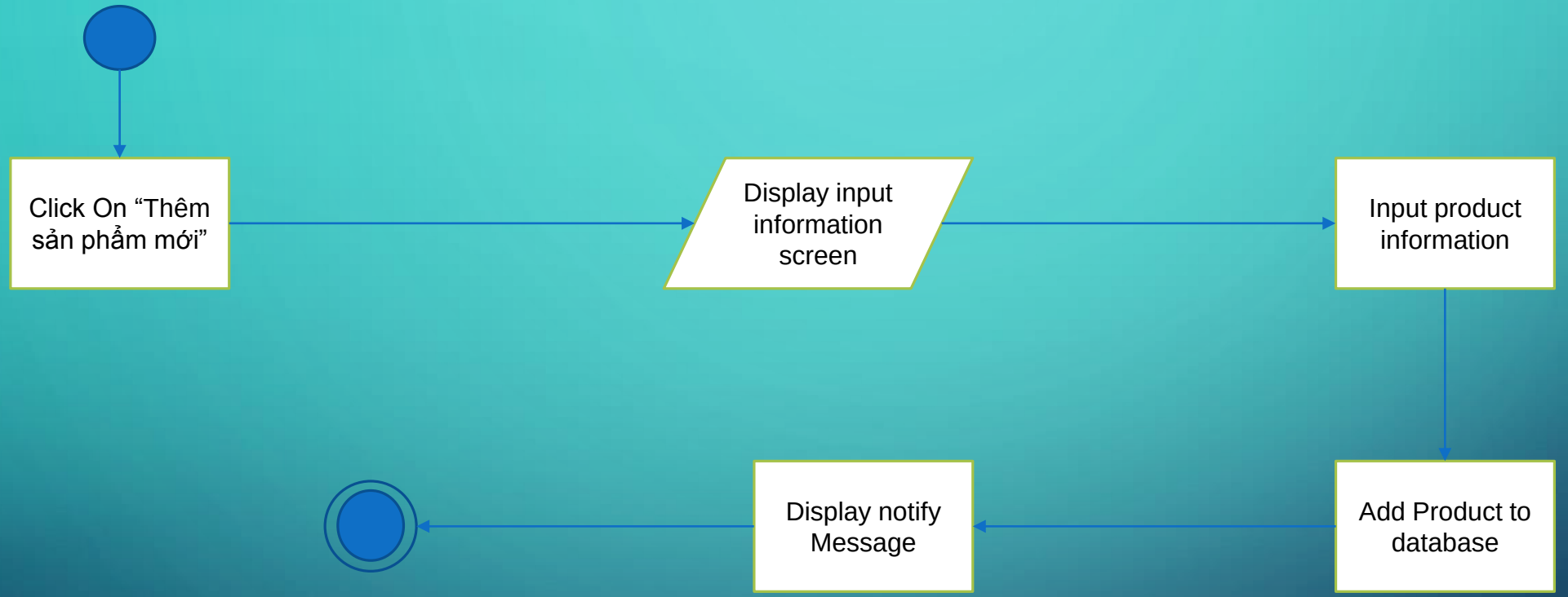

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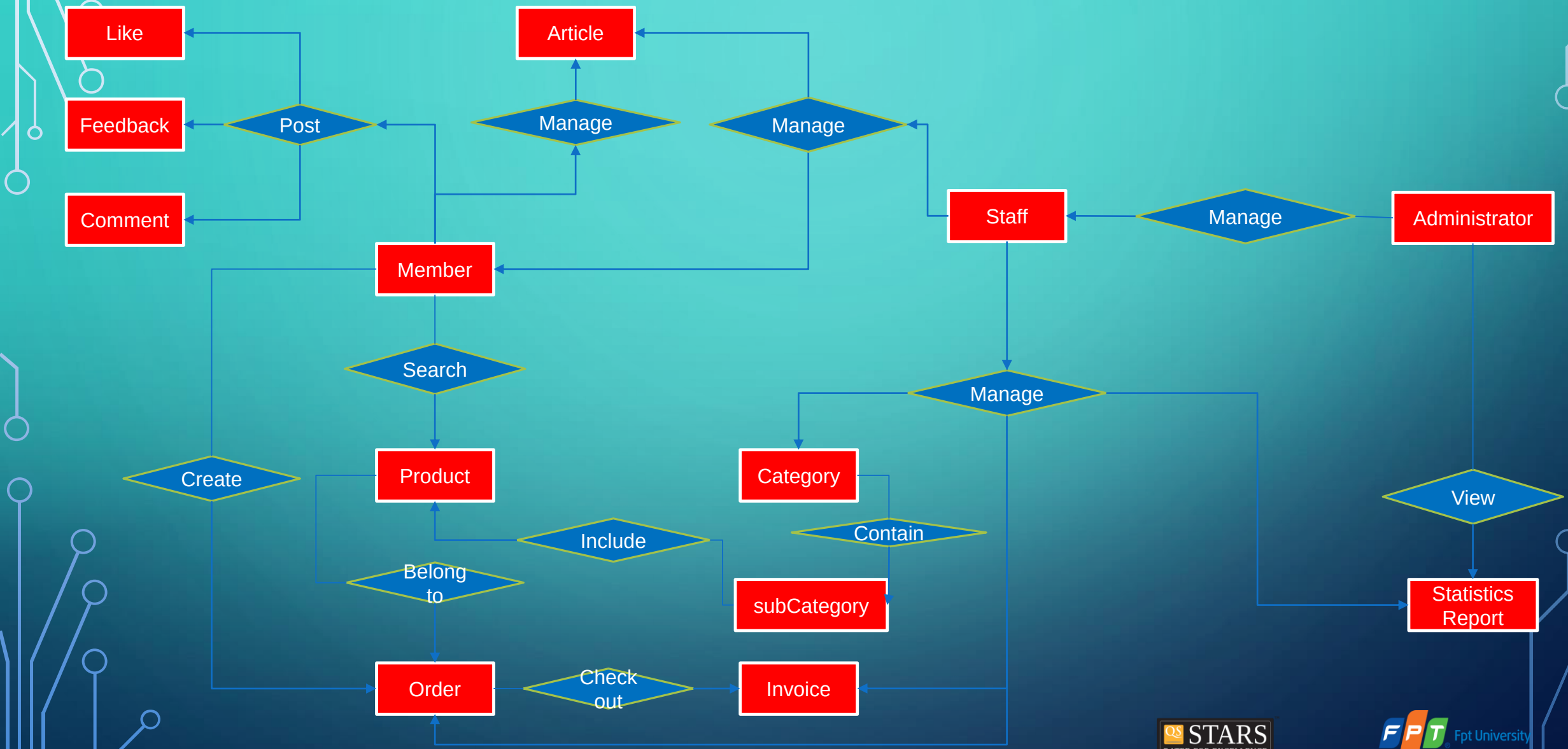
ENTITY RELATIONSHIP DIAGRAM



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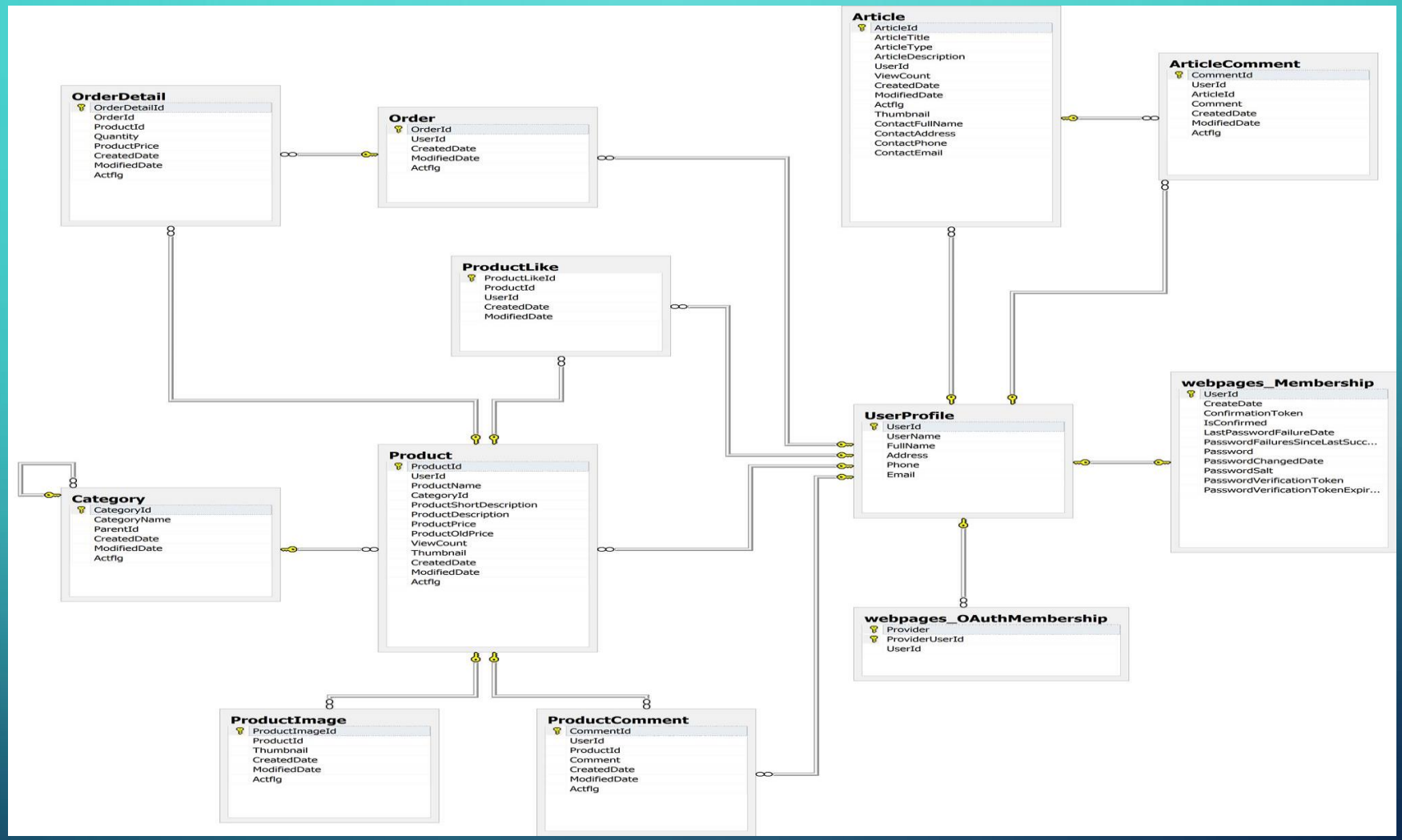
DATABASE DESIGN



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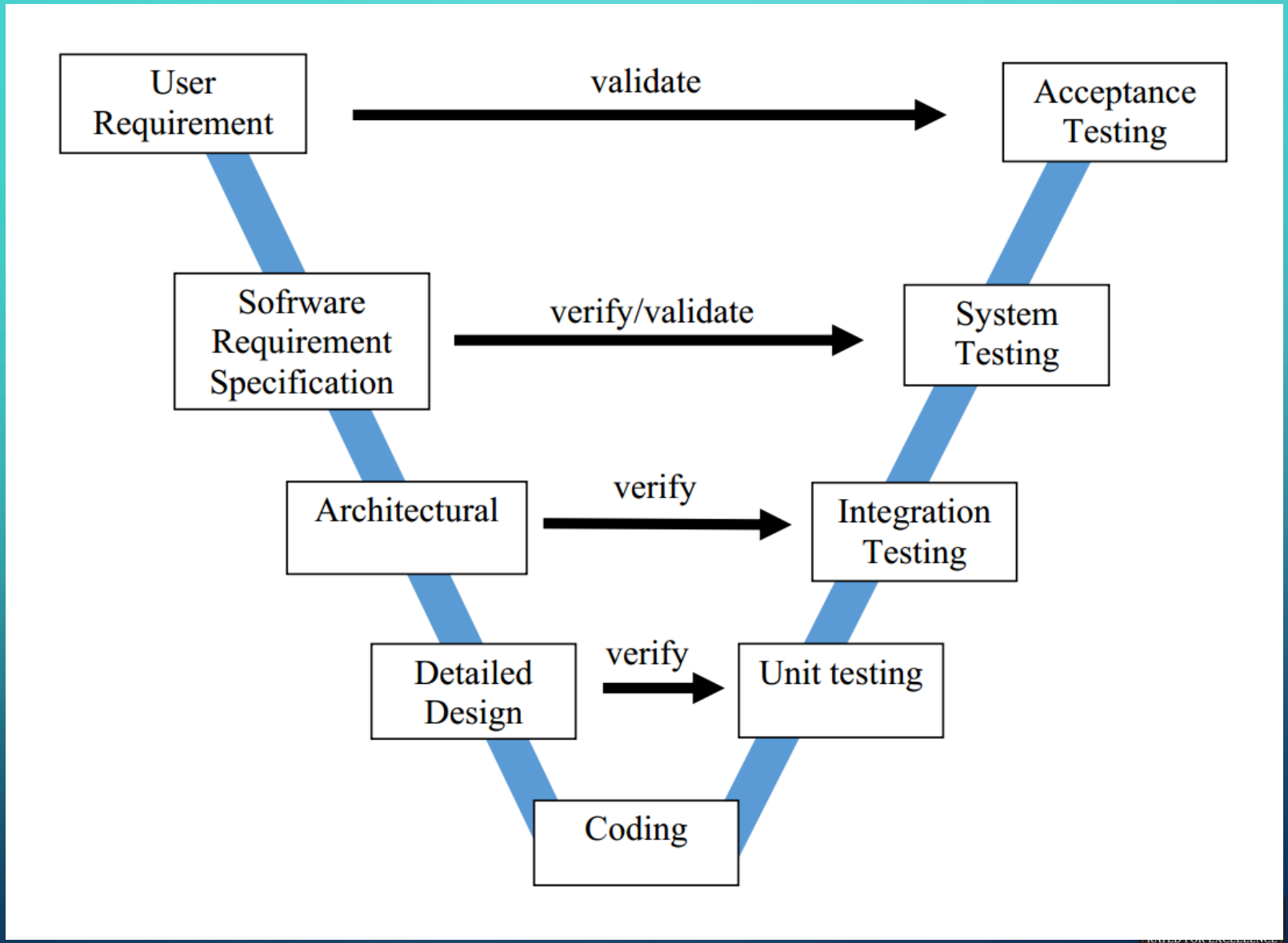
TESTING PHASE



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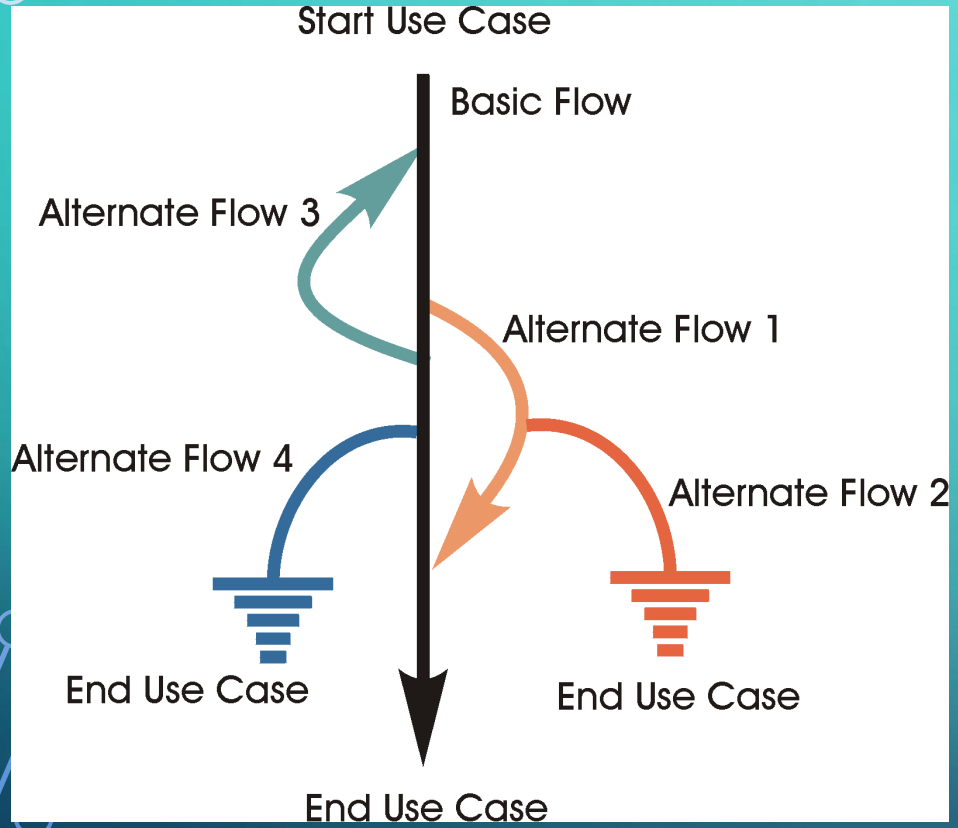
TESTING TOOL & ENVIRONMENT

Purpose	Tool	Vendor/In-house	Version
Test Management			
Test Plan, Test Report	MS Word MS Project	Microsoft	2013
Test Case, Check List	MS Excel	Microsoft	2013
Test Environment	Web Browser		
Defect Tracking	MS Word	Microsoft	2013
Testing			

TEST GUIDELINE



- **No data**: Run your test cases on blank or default data. See if proper error messages are generated.
- **Valid data set**: Create it to check if application is functioning as per requirements and valid input data is properly saved in database or files.
- **Invalid data set**: Prepare invalid data set to check application behavior for negative values, alphanumeric string inputs.
- **Illegal data format**: Make one data set of illegal data format. System should not accept data in invalid or illegal format. Also check proper error messages are generated.
- **Boundary Condition data set**: Data set containing out of range data. Identify application boundary cases and prepare data set that will cover lower as well as upper boundary conditions.
- **Data set for performance, load and stress testing**: This data set should be large in volume.

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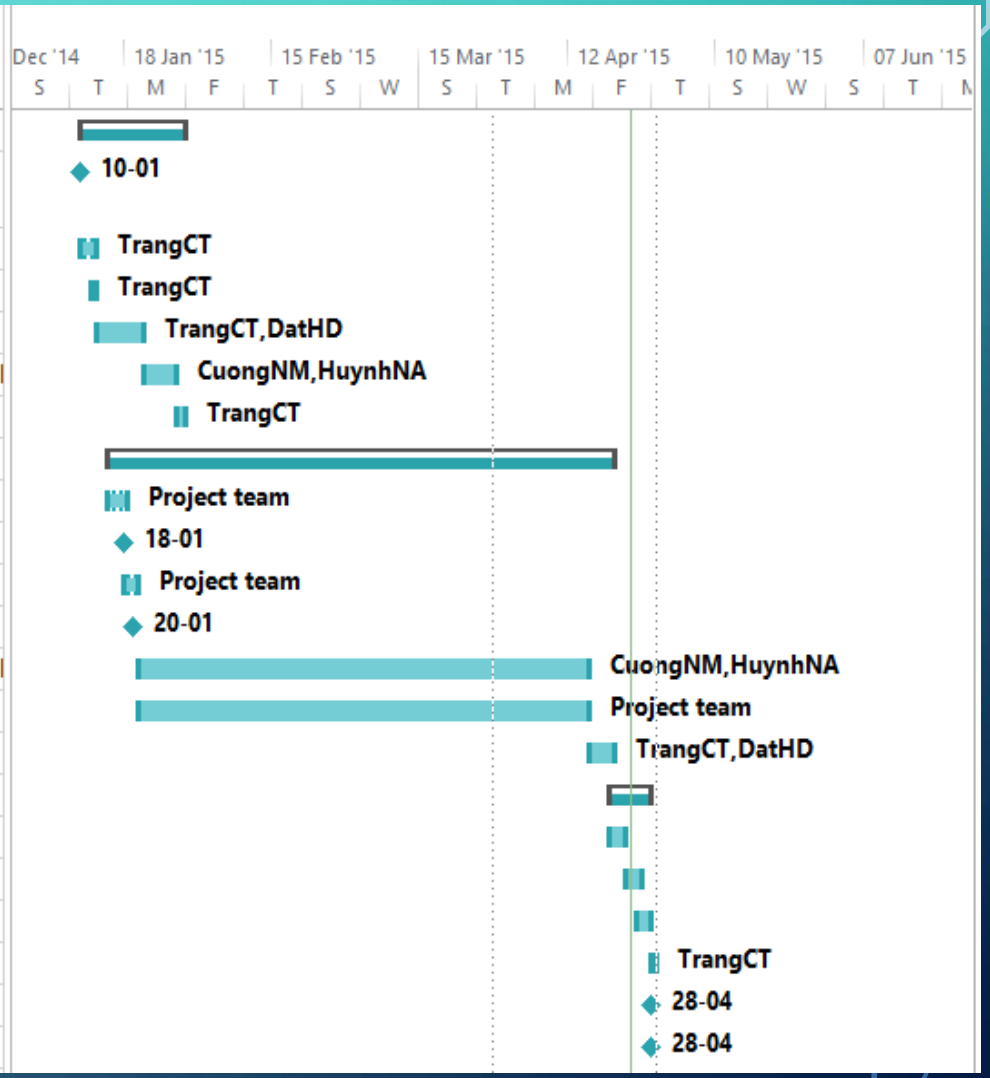
TEST PLAN

	Task Name	Duration	Start	Finish	Resource Names
1	**Manage Test Planning**	**15 days**	**Sat 10-01-15**	**Thu 29-01-15**	
2	Guide system implementation & test document	0 days	Sat 10-01-15	Sat 10-01-15	TrangCT
3	Create test plan	2 days	Sat 10-01-15	Mon 12-01-15	TrangCT
4	Test plan approved	1 day	Mon 12-01-15	Mon 12-01-15	TrangCT
5	Create test cases	7 days	Tue 13-01-15	Wed 21-01-15	TrangCT,DatHD
6	Define error message	4 days	Thu 22-01-15	Tue 27-01-15	CuongNM,Huynl
7	Complete test cases	2 days	Wed 28-01-15	Thu 29-01-15	TrangCT
8	**Develop tests**	**68 days**	**Thu 15-01-15**	**Mon 20-04-15**	
9	Create build	3 days	Thu 15-01-15	Sun 18-01-15	Project team
10	Build approved for testing	0 days	Sun 18-01-15	Sun 18-01-15	Project team
11	Develop environment test	3 days	Sun 18-01-15	Tue 20-01-15	Project team
12	QA environment approved for testing	0 days	Tue 20-01-15	Tue 20-01-15	Project team
13	Develop unit test	61 days	Wed 21-01-15	**Wed 15-04-15**	CuongNM,Huynl
14	Develop integration test	61 days	Wed 21-01-15	**Wed 15-04-15**	Project team
15	Develop system test	3 days	Thu 16-04-15	**Mon 20-04-15**	TrangCT,DatHD
16	**Execute tests**	**6 days**	**Mon 20-04-15**	**Mon 27-04-15**	
17	Execute manual test	3 days	Mon 20-04-15	Wed 22-04-15	
18	Execute beta test	3 days	Thu 23-04-15	Sat 25-04-15	
19	Execute user acceptance test	2 days	Sat 25-04-15	Mon 27-04-15	
20	Analyze test results	1 day	Tue 28-04-15	Tue 28-04-15	TrangCT
21	Compile test statistics	0 days	Tue 28-04-15	Tue 28-04-15	TrangCT
22	Version finalized	0 days	Tue 28-04-15	Tue 28-04-15	TrangCT



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TEST UNIT

Function Code	Login	Function Name	Login
Created By	CuongDM	Executed By	CuongDM
Test requirement			

Passed	Failed	Untested	N/A/B			Total Test Cases
5	0	0	1	4	0	5

			UTCID01	UTCID02	UTCID03	UTCID04	UTCID05	UTCID06	UTCID07	UTCID08	UTCID09	UTCID10	UTCID11	UTCID12	UTCID13	UTCID14	UTCID15	UTCID16	UTCID17	UTCID18	UTCID19	UTCID20
Condition	Precondition																					
	user with id = 1																					
	Role = "Deactive"																					
	user with id = 2																					
	Role = "Active"																					
	pass = "123456"																					
	username = "member01"																					
	input																					
	model.username	member01	O	O			O															
		member			O	O																
	model.password	"123456"	O	O	O																	
		"abcdef"				O	O															
	model.id	1	O		O																	
		2		O		O	O															
Confirm	Return																					
	Show error message "Tài khoản đã bị xóa"		O																			
	Redirect to index home page			O																		
	Show error message "Đăng nhập không thành công. Vui lòng thử lại"				O	O	O															
	Exception																					
	Log message																					
Result	Type(N : Normal, A : Abnormal, B : Boundary)		A	N	A	A	A															
	Passed/Failed		P	P	P	P	P															
	Executed Date		4/24/2015	4/24/2015	4/24/2015	4/24/2015	4/24/2015															
	Defect ID																					

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TEST LIST

No	Function Name	Sheet Name	Description	Pre-Condition
1	Create new Account	Create Account	Create new Account	
2	Forgot Password	Forgot password	Forgot password by Email	
3	Login	Login	Login	
4	Logout	Logout	Logout	
5	View Article	View Article	View Article	
6	Search	Search	Search	
7	Add new article	Add new article	Staff add new article on website	
8	Update article	Update article	Staff update article's information	
9	List article	List article	Staff list all article	
10	Active article	Active article	Staff active article	
11	Deactive article	Deactive article	Staff deactive article	
12	Add new category	Add new category	Staff add category	
13	Update category	Update category	Staff update category	
14	Active category	Active category	Staff active category	
15	Deactive category	Deactive category	Staff deactive category	
16	List category	List category	Staff list all category	
17	View member article	View member article	Staff view member article	
18	Active member article	Active member article	Staff active member article	
18	Deactive member article	Deactive member article	Staff deactive member article	
19	List member article	List member article	Staff list all member article	
20	Create staff account	Create staff account	Admin create all account	
21	Active staff account	Active staff account	Admin active all account	
22	Deactive staff account	Deactive staff account	Admin deactive all account	
23	List staff account	List staff account	Admin list all account	
24	Profile management	Profile management	User manages their profile	
25	(Member) Create new article	(Member) Create new article	member create new article	
26	(Member) Update article	(Member) Update article	Member update article	
27	(Member) List article	(Member) List article	Member list article	

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TEST CASE

Back to TestReport		Pass: 7	Untested:		
Module Code	View Article	Fail: 0	N/A:		
Tester	**Chu Thi Trang**	Percent Complete:	Number of cases: 7		
ID	**Test Case Description**	**Pre -Condition**	**Test Case Procedure**	**Expected Output**	**Result**
[Login - 1]	GUI checking	User visits PSO homepage and click on "Đăng nhập" button	1. View overall screen	1. The user is redirected to the login page. 2. All items as design requirement are display.	Pass
[Login - 2]	Verify when user doesn't fill data in all fields.	User visits PSO homepage and click on "Đăng nhập" button	1. User doesn't fill data in all fields. 2. User clicks on "Đăng nhập" button	Error message: "Tên đăng nhập không được để trống" "Mật khẩu không được để trống"	Pass
[Login - 3]	Verify when user fills data in fields.	User visits PSO homepage and click on "Đăng nhập" button	1. User fills data in all fields with valid data. 2. User clicks on "Đăng nhập" button	Login successful, redirect to Home page	Pass
[Login - 4]	Verify when user fills data in fields.	User visits PSO homepage and click on "Đăng nhập" button	1. User doesn't fill data in "Tên đăng nhập" field. 2. User fills valid data in "Mật khẩu" field. 3. User clicks on "Đăng nhập" button	Error message: "Tên đăng nhập không được để trống"	Pass
[Login - 5]	Verify when user fills data in fields.	User visits PSO homepage and click on "Đăng nhập" button	1. User fills data in "Tên đăng nhập" field which doesn't registered. 2. User fills valid data in "Mật khẩu" field. 3. User clicks on "Đăng nhập" button	Error message: "Đăng nhập không thành công. Vui lòng thử lại"	Pass
		User visits PSO homepage and click on "Đăng nhập" button	1. User doesn't fill data in "Mật khẩu" field.		

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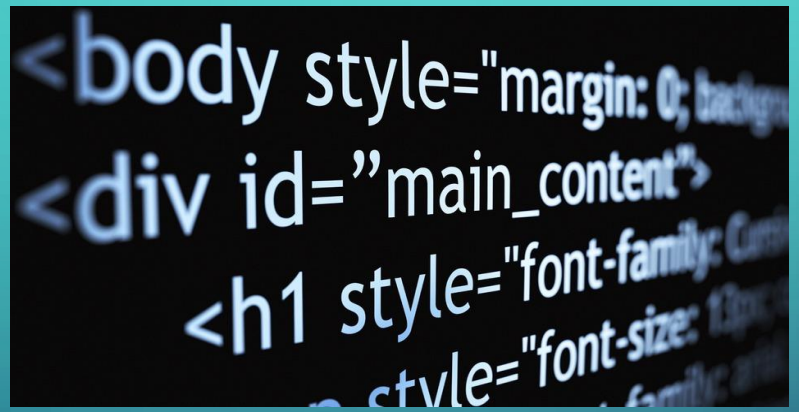
LESSONS LEARNED



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➢ PROJECT DEMO

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➢ QUESTIONS AND ANSWERS

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- THANK YOU FOR YOUR LISTENING !!!

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