# <Company Name>

Computer Shop System

Software Architecture Document

Version 1.0

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# **Revision History**

Date	Version	Description	Author
25/12/2019	1.0	Final Draft.	Phung Minh Nguyet

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# **Software Architecture Document**

#### 1. Introduction

## 1.1 Purpose

This document provides a comprehensive architectural overview of the system, using a number of different architectural views to depict different aspects of the system. It is intended to capture and convey the significant architectural decisions which have been made on the system.

## 1.2 Scope

This document applies to the Computer Shop System which will be developed by CT Computer.

## 1.3 Definitions, Acronyms, and Abbreviations

Admin: the person who develop the system and manage all in the computer shop.

Staff: who work for the shop.

Customer: a user who is not logged in the system.

#### 1.4 References

None

#### 1.5 Overview

In the following section, architectural design of the Computer Shop Management System is provided in detail. First, the primary software architecture of the system will be defined. Then, there are further discussion about the goals and constraints that will be imposed upon the quality of the final product, which including but not limited to security, distribution and reuse. In the precedence sections, the key views of the system are demonstrated to depict different aspects of the system. Lastly, criteria concerning with size, performance and quality of the system will be proposed.

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## 2. Architectural Representation

This documents presents the architectural as a series of mandatory views: Use-Case View, Logical View, Deployment View and Data View. These views are presented as Visual Paradigm Community Edition Models, StarUML and use the Unified Modeling Language (UML).

#### **Use-Case View**

- Audience: all the stakeholders of the system, including the end-users.
- Area: describes the set of scenarios and/or use cases that represent significant, central functionality to the system.
- Related artifacts: Use-Case Model, Analysis Model, Use-Case-Realization documents.

#### **Logical View**

- Audience: designers, programmers.
- Area: functional requirements: describes the design's object model.
- Related artifacts: Design Model.

## **Deployment View**

- Audience: deployment managers, system administrators.
- Area: topology: describes the mapping of the software onto the hardware and shows the systems distributed aspects.
- Related artifacts: Deployment Model.

#### **Data View**

- Audience: data specialists, database administrators.
- Area: persistence: describes the architecturally significant persistent elements in the data model.
- Related artifacts: Data Model.

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#### 3. Architectural Goals and Constraints

There are some key requirements and system constraints that have a significant bearing on the architecture. They are:

- The Computer Shop Management System must be designed to fulfills all system requirements specified in requirements definition.
- The Computer Shop Management design must be structured to be robust, easy to change if and when functional requirements change.
- The Computer Shop Management System must be designed to allow the re-use of business logic across applications; therefore, the design separate the three components: model, view and controller.
- The separation of the three components: model, view and controller are also necessary to provide a convenient cooperation between different development teams.
- The Computer Shop Management System will run on a dedicated platform with access to a database.
- The Computer Shop Management website provides most of the content display. An interface to this system must be capable of handling large traffic volumes.

#### 4. Use-Case View

A description of the Use-Case View of the system architecture. The Use Case View is important input to the selection of the set of scenarios and/or use cases that are the focus of an iteration. It describes the set of scenarios and/or use cases that represent some significant, central functionality. It also describes the set of scenarios and/or use cases that have a substantial architectural coverage (that exercise many architectural elements) or that stress or illustrate a specific, delicate point of the architecture.

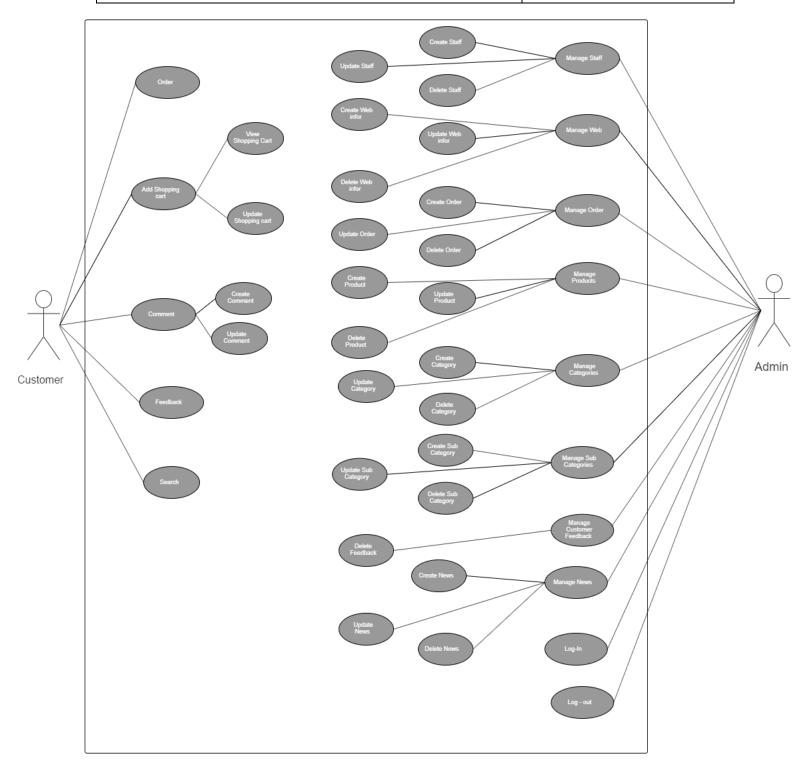
The significant use cases in this system are listed below:

- Log-in
- Log-out
- Search
- Feedback
- Create comment
- Delete comment
- View shopping cart
- Create Staff
- Update Staff
- Delete Staff

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- Manage web
- Create order
- Delete order
- Create product
- Update product
- Delete product
- Create Category
- Update Category
- Delete Category
- Create news
- Update News
- Delete News
- Create Sub Category
- Update Sub Category
- Delete Sub Category
- Create customer feedback
- Delete customer feedback

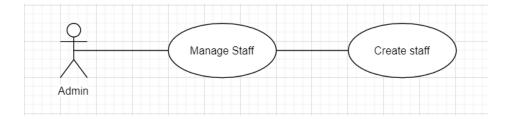
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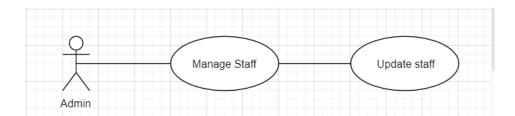
#### 4.1 Use-Case Realizations

#### 1. Create Staff:



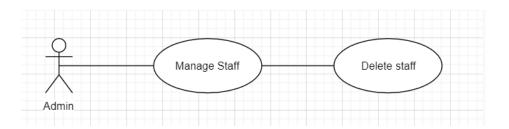
- Brief Description: Admin create staff's information.
- Specification: See Use-Case-Realization Specification: Create Staff

# 2. Update Staff:



- Brief Description: Admin update staff's information.
- Specification: See Use-Case-Realization Specification: Update Staff

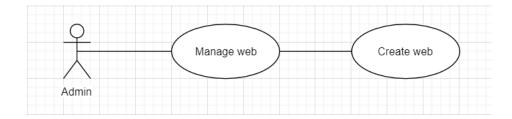
## 3. Delete Staff:



- Brief Description: Admin delete staff's information.
- Specification: See Use-Case-Realization Specification: Delete Staff

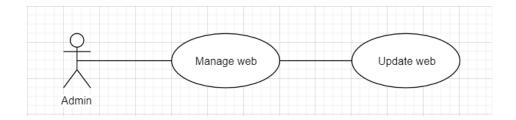
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## 4. Create Web:



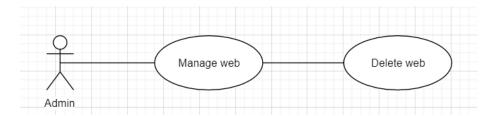
- Brief Description: Admin create web's information.
- Specification: See Use-Case-Realization Specification: Create Web

# 5. Update Web:



- Brief Description: Admin update web's information.
- Specification: See Use-Case-Realization Specification: Update Web

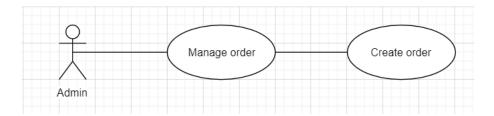
## 6. Delete Web:



- Brief Description: Admin delete web's information.
- Specification: See Use-Case-Realization Specification: Delete Web

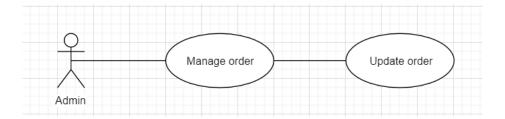
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#### 7. Create order:



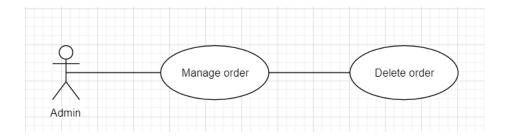
- Brief Description: Admin create order.
- Specification: See Use-Case-Realization Specification: Create order

# 8. Update order:



- Brief Description: Admin update order.
- Specification: See Use-Case-Realization Specification: Update order

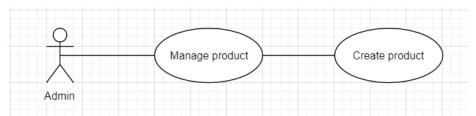
## 9. Delete order:



- Brief Description: Admin delete order.
- Specification: See Use-Case-Realization Specification: Delete order.

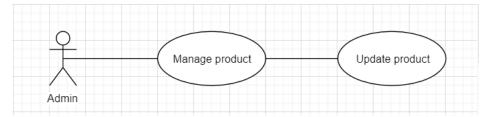
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# 10. Create product:



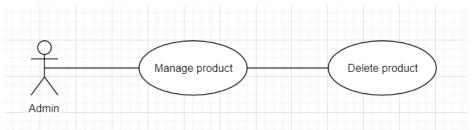
- Brief Description: Admin create product.
- Specification: See Use-Case-Realization Specification: Create product.

# 11. Update product:



- Brief Description: Admin update product.
- Specification: See Use-Case-Realization Specification: Update product.

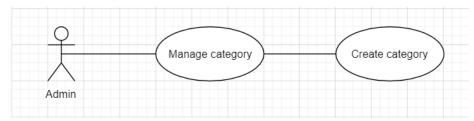
# 12. Delete product:



- Brief Description: Admin delete product.
- Specification: See Use-Case-Realization Specification: Delete product.

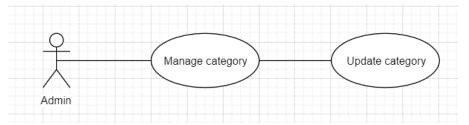
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## 13. Create category:



- Brief Description: Admin create category.
- Specification: See Use-Case-Realization Specification: Create category.

## 14. Update category:



- Brief Description: Admin update category.
- Specification: See Use-Case-Realization Specification: Update category.

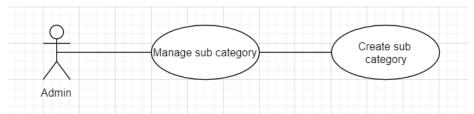
## 15. Delete category:



- Brief Description: Admin delete category.
- Specification: See Use-Case-Realization Specification: Delete category.

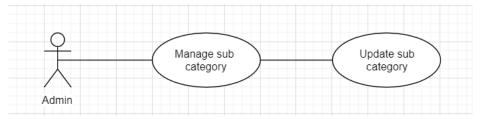
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# 16. Create sub category:



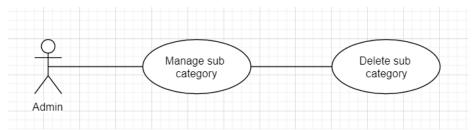
- Brief Description: Admin create sub category.
- Specification: See Use-Case-Realization Specification: Create sub category.

# 17. Update sub category:



- Brief Description: Admin update sub category.
- Specification: See Use-Case-Realization Specification: Update sub category.

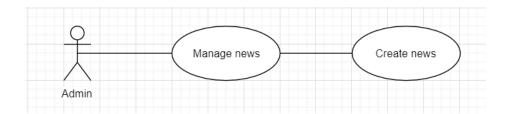
## 18. Delete sub category:



- Brief Description: Admin delete sub category.
- Specification: See Use-Case-Realization Specification: Delete sub category.

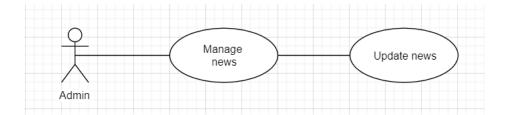
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## 19. Create news:



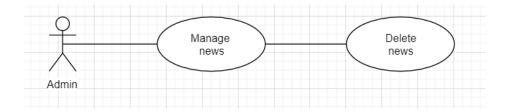
- Brief Description: Admin create news.
- Specification: See Use-Case-Realization Specification: Create news.

# 20. Update news:



- Brief Description: Admin update news.
- Specification: See Use-Case-Realization Specification: Update news.

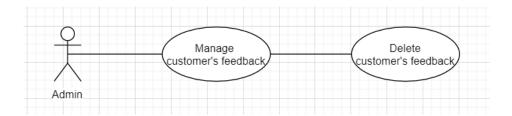
## 21. Delete news:



- Brief Description: Admin delete news.
- Specification: See Use-Case-Realization Specification: Delete news.

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## 22. Delete customer's feedback:



- Brief Description: Admin delete customer's feedback.
- Specification: See Use-Case-Realization Specification: Delete customer's feedback.

# 23. Log-in:



- Brief Description: Staff logging in to the system.
- Specification: See Use-Case-Realization Specification: Log-in

## 24. Log-out:



- Brief Description: Staff logging out to the system.
- Specification: See Use-Case-Realization Specification: Log-out.

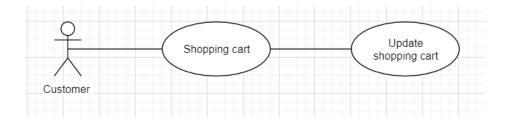
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## 25. Create order:



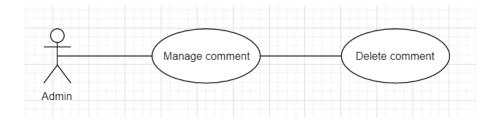
- Brief Description: Customer create the order.
- Specification: See Use-Case-Realization Specification: Create news.

# 26. Update shopping cart:



- Brief Description: Customer update shopping cart.
- Specification: See Use-Case-Realization Specification: Update shopping cart.

## 27. Delete comment:



- Brief Description: Admin delete comment.
- Specification: See Use-Case-Realization Specification: Delete comment.

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#### 28. Create comment:



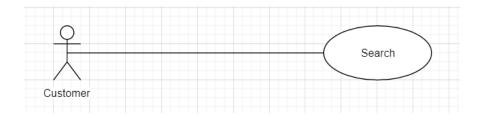
- Brief Description: Customer create comment.
- Specification: See Use-Case-Realization Specification: Create comment

## 29. Feedback:



- Brief Description: Customer create the feedback to the shop.
- Specification: See Use-Case-Realization Specification: Feedback

## 30. Search:



- Brief Description: Customer search the product.
- Specification: See Use-Case-Realization Specification: Search.

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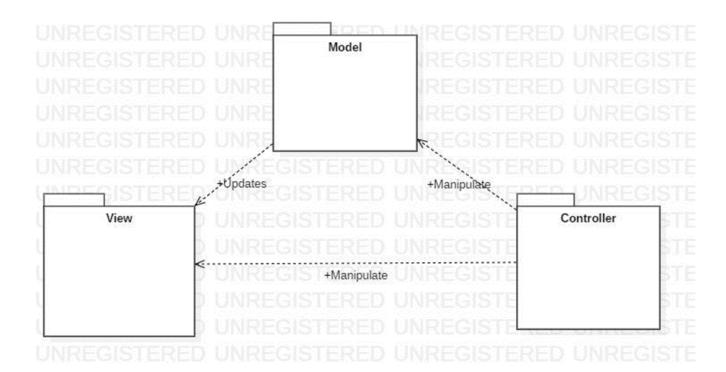
## 5. Logical View

#### 5.1 Overview

A description of the logical view of the architecture. Describes the overall decomposition of the design model in terms of package hierarchy and layers.

The logical view of the Computer Shop System is comprised of 3 significant packages:

- Model: contains classes that directly manages the data, logic and rules of the Computer Shop System and displayed in the view.
- View: contains classes that generates output representation of information to the user based on changes in the model.
- Controller: contains classes that can send commands to the model to update the model's state (e.g., add a new computer); it can also send commands to its associated view to change the view's presentation of the model (e.g., scrolling through contract's reviews).



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## 5.2 Architecturally Significant Design Packages

#### 5.2.1 Package Model

#### SubCategory

- -id: int
- -price:int
- -color:String
- -size:String
- -description: String
- -detail: String
- +createSubCategory(): boolean
- +updateSubCategory(): boolean
- +deleteSubCategory():boolean
- +save(): boolean
- +search(): void

# Category

- -id: int
- -price:int
- -color:String
- -size:String
- -description: String
- -detail: String
- +createSubCategory(): boolean
- +updateSubCategory(): boolean
- +deleteSubCategory():boolean
- +save(): boolean
- +search(): void

#### Feedback

- -id: int
- -date: datetime
- -content:String
- -author:String
- -mail:String
- -mobile:int
- +createFeedback(): boolean
- +updateFeedback(): boolean
- +deleteFeedback():boolean
- +save(): boolean

#### Product

- -id: int
- -price:int
- -color:String
- -size:String
- -description: String
- -detail: String
- +createProduct(): boolean
- +updateProduct(): boolean
- +deleteProduct():boolean
- +save(): boolean
- +search(): void

#### Advertise

- -id: int
- -name:String
- -Image:String
- -description:String
- +createAdvertise(): boolean
- +updateAdvertise(): boolean
- +deleteAdvertise():boolean
- +save(): boolean
- +IsActive(): boolean

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Comment
-id: int -date: datetime -content:String -author:String
+createNews(): boolean +updateNews(): boolean +deleteNews():boolean +save(): boolean

Order
-id: int -date: datetime -content:String -author:String -mail:String -mobile:int
+createOrder(): boolean +updateOrder(): boolean +deleteOrder():boolean +save(): boolean

Name	model					
<b>Brief Description</b> Contains classes that directly manages the data, logic and rules of						
	the Computer Shop Management System and displayed in the view.					
	Computer, Rating, Order, OrderLine, Payment.					
Classes						

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## > Class Categories:

Name	User								
<b>Brief Description</b>	Data model for user table in database.								
Attributes									
Name	Type	Access		Mutal	ble (	Optional	Length	Min	Max
id	int	Private		False	I	False	11	1	N/A
name	String	Private		True	I	False	250	N/A	N/A
position	int	Private		True	I	False	4	N/A	N/A
Operations									
Header	Return	Access	Scope	•	Spe	cification	1		
	Type								
Create()	Boolean	Public	Instan	ice	Create new Category				
					Return true if success.				
Update()	Boolean	Public	Instan	ice	Update Category. Return true if suc			e if success	
Delete()	Boolean	Public	Instan	ice	Dele	ete Catego	ory		
Display()	Boolean	Public	Instan	ice	Display Categories				
<b>2</b> • "					list/information				
					true if				
					succ	cess.			
Save()	Boolean	Public	Instance		Save Category in				
					database				
Search()	void	Private	Instan	ice	Sear	rch Categ	ory		

# > Class Sub Categories:

Name	User								
<b>Brief Description</b>	Data model for user table in database.								
Attributes									
Name	Type	Access		Mutable	Optional	Length	Min	Max	
id	int	Private		False	False	11	1	N/A	
category_id	int	Private		False	False	11	1	N/A	
name	String	Private		True	False	250	N/A	N/A	
position	int	Private		True	False	4	N/A	N/A	
Operations									
Header	Return	Access	Scope	Spe	cification				
	Type								
Create()	boolean	Public	Instan	ce Cre	ate Sub Ca	tegory			
				Ret	urn true if	success.			
Update()	boolean	Public	Instan	ce Upo	date Sub Ca	ategory. F	Return	true if	
				suce	cess	_			

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Delete()	boolean	Public	Instance	Delete Sub Category
Display()	boolean	Public	Instance	Display Sub Category
				list/information
				true if success.
Save()	boolean	Public	Instance	Save Sub Category in
				database
Search()	void	Private	Instance	Search Sub Category
, ,				]

> Class product:

	product:									
Name	User									
<b>Brief Description</b>	Data mode	el for user t	able in	databas	e.					
Attributes										
Name	Type	Access		Mutabl	le Optional	Length	Min	Max		
id	int	Private		False	False	11	1	N/A		
name	String	Private		True	False	550	N/A	N/A		
CategoryId	int	Private		False	False	11	1	N/A		
SubCategoryId	int	Private		False	False	11	1	N/A		
typeId	int	Private		False	False	11	1	N/A		
Price	int	Private		False	False	11	1	N/A		
Color	String	Private		True	False	250	N/A	N/A		
Material	String	Private		True	False	250	N/A	N/A		
Size	String	Private		True	False	20	N/A	N/A		
Operations	Operations									
Header	Return	Access	Scope		Specification	1				
	Type									
Create()	boolean	Public	Instan		Create new product					
				F	Return true if success.					
Update()	boolean	Public	Instan	ce T	Update product. Return true if success					
Delete()	boolean	Public	Instan	ce I	Delete product					
Display()	boolean	Public	Instan	ce I	Display product					
-				1	ist/informati	on				
				t	rue if					
				S	success.					
Save()	boolean	Public	Instan		Save product	in				
				c	latabase					
Search()	void	Private	Instan	ice S	Search produ	ct				

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# > Class feedback:

Name	User	User								
<b>Brief Description</b>	Description Data model for user table in database.									
Attributes										
Name	Type	Access		Mutab	le Optional	Length	Min	Max		
id	int	Private		False	False	11	1	N/A		
name	String	Private	Private		False	50	N/A	N/A		
mail	String	Private	Private '		False	50	N/A	N/A		
mobile	String	Private		True	False	20	N/A	N/A		
Operations										
Header	Return	Access	Scope		Specification	1				
	Type									
Create()	boolean	Public	Instan	ice	Create new feedback					
				]	Return true if success.					
Update()	boolean	Public	Instan	ice 1	Update feedback .Return true if succe			e if success		
Delete()	boolean	Public	Instan	ice ]	Delete feedback					
Display()	boolean	Public	Instan		Display feedback					
				]	list/informati	on				
				Į	true if					
					success.					
Save()	boolean	Public	Instan		Save feedbac	k in				
				ļ.	database					
					•					

# > Class advertise:

Name	User									
<b>Brief Description</b>	Data mode	Data model for user table in database.								
Attributes										
Name	Type	Access		Mutable	e <b>Optional</b>	Length	Min	Max		
id	int	Private			False	11	1	N/A		
name	String	Private	Private		False	150	N/A	N/A		
description	String	Private		True	False	250	N/A	N/A		
Operations										
Header	Return	Access	Scope	S	pecification	1				
	Туре									
Create()	boolean	Public	Instan	ice C	reate new a	dvertise				
				R	eturn true if	success.				
Update()	boolean	Public	Instance		Update advertise. Return true if success					
Delete()	boolean	Public	Instan	ice D	Delete advertise					
Display()	boolean	Public	Instan	ice D	isplay adve	rtise				
				li	st/informati	on				

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			true if
			success.
Save()	boolean	Public	Save advertise in database

## Class Comment:

Name	Hear								
	User								
<b>Brief Description</b>	Data model f	or user ta	ble in	databas	se.				
Attributes									
Name	Type	Access		Mutab	ole	Optional	Length	Min	Max
id	int	Private		False		False	11	1	N/A
name	String	Private		True		False	250	N/A	N/A
position	int	Private		True		False	4	N/A	N/A
Operations									
Header	Return	Access	Scope		Spe	ecification	1		
	Туре								
Create()	boolean	Public	Instance Create no		ate new C	w Comment			
			R		Return true if success.				
Update()	boolean	Public	Instance Update Comment. Return true		e if success				
Delete()	boolean	Public	Instan	ce	Del	lete Comm	ent		
Display()	boolean	Public	Instan	ce	Display Comment				
			1 -		/informatio	on			
					true	e if			
					suc	cess.			
Save()	boolean	Public	Instance		Sav	e Comme	nt in		
					data	abase			

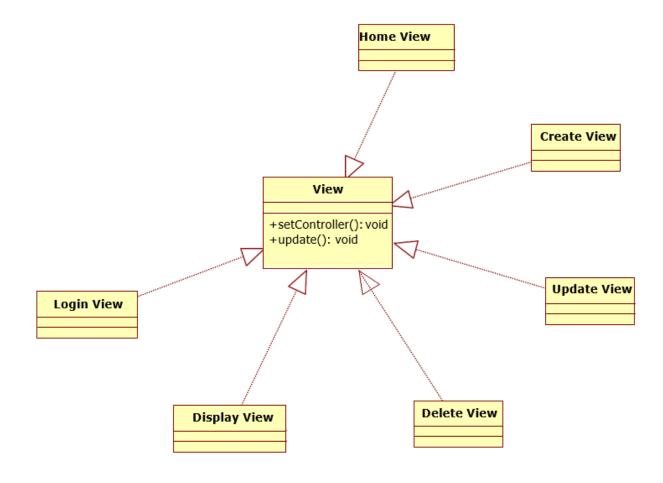
# > Class order:

Name	User	User						
<b>Brief Description</b>	Data mod	Data model for user table in database.						
Attributes								
Name	Type	Access	Mutable	<b>Optional</b>	Length	Min	Max	
id	int	Private	False	False	11	1	N/A	
name	String	Private	True	False	50	N/A	N/A	
address	String	Private	True	False	200	N/A	N/A	
phone	String	Private	True	False	20	N/A	N/A	
email	String	Private	True	False	50	N/A	N/A	
Operations								

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Header	Return Type	Access	Scope	Specification
Create()	boolean	Public	Instance	Create new order Return true if success.
Update()	boolean	Public	Instance	Update order. Return true if success
Delete()	boolean	Public	Instance	Delete order
Display()	boolean	Public	Instance	Display order list/information true if success.
Save()	boolean	Public	Instance	Save order in database

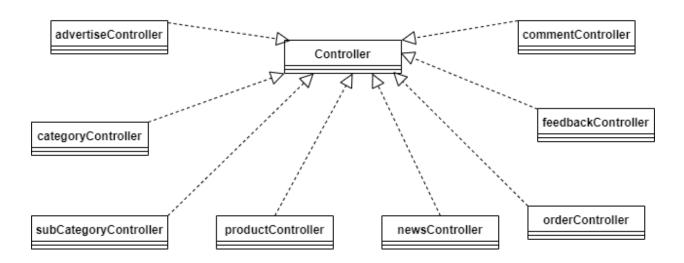
## 5.2.2 Package View



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Name	view
Brief Description	Contains classes that generates output representation of Information to the user based on changes in the model.
Interfaces	View.
Classes	HomeView, LoginView, DisplayView CreateView, UpdateView, DeleteView,

# **5.2.3** Package Controller



Name	Controller
Brief Description	Controls the data flow into model object and updates the view whenever data changes
Classes	Controller, advertiseController, categoryController, OrderController, subCategoryController, productController, newsController,feedbackController,commentController

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## Class advertiseController

Name	advertise	advertiseController						
Brief Description	Class for	Class for handling operations related to advertise						
Attributes								
Name	Type	Access	s Mutable Optional Length Min Max					
Operations	I		_ I				L	
Header	Return Type							
add	DBS	Public	Add adver	Add advertise				
update	DBS	Public	Update adv	Update advertise				
delete	DBS	Public	remove ad	vertise				

## Class orderController

Name	orderCor	orderController						
Brief Description	Class for	Class for handling operations related to order						
Attributes	Attributes							
Name	Type	Access	Mutable Optional Length Min Max					
Operations								
Header	Return Access Specification Type							
add	DBS	Public	Add order					
update	DBS	Public	Update order					
delete	DBS	Public	remove ord	remove order				

# Class productController

Name	productC	productController						
Brief Description	Class for handling operations related to product							
Attributes	ributes							
Name	Type	Access	ess Mutable Optional Length Min Max					
Operations	Operations							
Header	Return Type	Access	Specification					
add	DBS	Public	Add product					
update	DBS	Public	Update pro	Update product				

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delete DBS Public remove product	
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# ➤ Class categoryController

Name	categoryController								
Brief Description	Class for handling operations related to category								
Attributes	attributes								
Name	Type	Type Access Mutable Optional Length Min Max							
Operations	Operations								
Header	Return Access Specification Type								
add	DBS	Public	Add category						
update	DBS	Public	Update category						
delete	DBS	Public	remove cat	remove category					

# ➤ Class subCategoryController

Name	subCateg	subCategoryController								
Brief Description	Class for	Class for handling operations related to subCategory								
Attributes	Attributes									
Name	Type	Type Access Mutable Optional Length Min Max								
Operations	Operations									
Header	Return Access Specification Type									
add	DBS	Public	Public Add subCategory							
update	DBS	Public	Update subCategory							
delete	DBS	Public	remove sub	Category						

## Class newsController

Name	newsCor	newsController							
Brief Description	Class for	Class for handling operations related to news							
Attributes									
Name	Type	Access	Mutable	Optional	Length	Min	Max		
Operations			•			•	•		
Header	Return Type	Access	Specification						

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add	DBS	Public	Add news
update	DBS	Public	Update news
delete	DBS	Public	remove news

## Class feedbackController

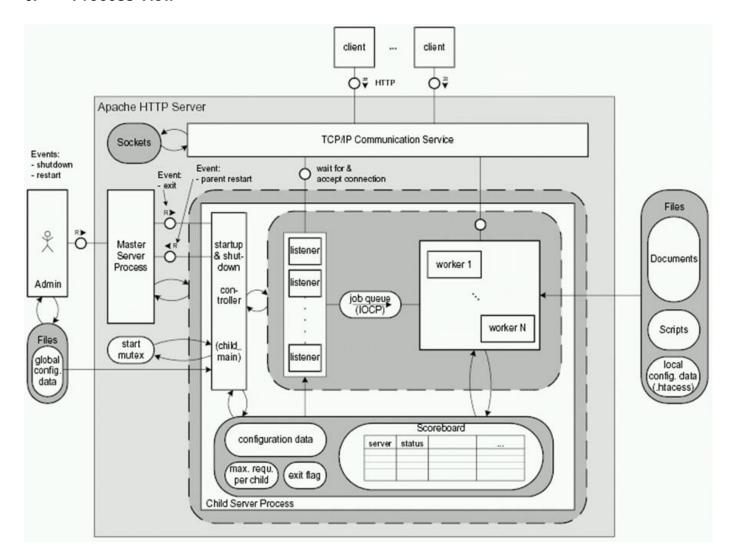
Name	feedback	feedbackController								
Brief Description	Class for	Class for handling operations related to feedback								
Attributes										
Name	Type	Type Access Mutable Optional Length Min Max								
Operations										
Header	Return Type Specification									
add	DBS	Public	Add feedback							
update	DBS	Public	Update feedback							
delete	DBS	Public	remove fee	remove feedback						

## Class commentController

Name	comment	commentController							
Brief Description	Class for	Class for handling operations related to comment							
Attributes	butes								
Name	Type	Access	s Mutable Optional Length Min Max						
Operations	Operations								
Header	Return Type Specification								
add	DBS	Public	Add comment						
delete	DBS	Public	remove comment						

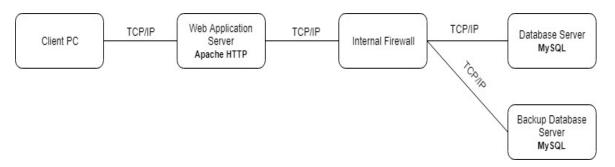
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## 6. Process View



# 7. Deployment View

This section describes one or more physical network (hardware) configurations on which the warehouse management system is deployed and run. The system is comprised of these mandatory physical nodes: one firewall (internal), a web server, a database server and a backup database server. The diagram below is the simplicity version of the Warehouse Management System deployment view.



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## 8. Implementation View

#### 8.1 Overview

- The Implementation view depicts the physical composition of the implementation in terms of Implementation Subsystems, and Implementation Elements (directories and files, including source code, data, and executable files). Usually, the layers of the Implementation view do fit the layering defined in the Logical view

#### 8.2 Layers

#### 8.2.1 Presentation Layer

- The Presentation layer contains all the components needed to allow interactions with an end-user. It encompasses the user interface

## 8.2.2 Control Layer

The Control layer contains all the components used to access the domain layer or directly the resource layer when this is appropriate

#### 8.2.3 Resource Layer

- The Resource layer contains the components needed to enable communication between the business tier and the enterprise information systems (Database, external services, ERP, etc...)

#### 8.2.4 Domain layer

- The Domain layer contains all the components related to the business logic. It gathers all the subsystems that meet the needs of a particular business domain. It also contains the business object model.

#### 8.2.5 Common Element Layer

- The Common Element layer contains the components re-used within several layers.

# 9. Data View(Optional)

#### 10. Size and Performance

The major dimensioning characteristics of the software that impact the architecture and performance constraints:

- The system shall support up to 200 orders at the time.
- The system must perform all functions with minimal time delays.
- The system must also accurately save all information transactions.

#### 11. Quality

The system architecture supports the quality requirements:

- In order to maintain the highest degree of system integrity, the system is capable of ensuring that all information transitions are saved.
- Databases will be backed up on a daily basis in concern with safety implications.