

GENERIC STORE

GENERIC STORE

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An

Industry Development Project

Submitted in Partial Fulfillment of the Requirements for the
Integrated Master of Science in Computer Application & Information Technology
Semester V



Integrated Master of Science in Computer Application & Information Technology
Indus Institute of Information and Communication Technology
(Indus University)

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We are highly indebted to our project guide for their guidance and constant supervision as well as for providing necessary information regarding the project & also for their support in completing the project.



INDUS INSTITUTE OF INFORMATION AND COMMUNICATION
TECHNOLOGY

CERTIFICATE

*This is to certify that Dharati Patel and Bianca Shah of
Integrated Master of Science in Computer Application &
Information Technology, Semester – V (Year 2018) having
Roll No: IU1683830027 , IU1683830003 and Enrollment
No: _____ has satisfactorily completed his/her
Industry Development Project work titled Generic Store
towards fulfillment of IMSc.IT (CA & IT) Semester - V.*

Date: _____

Internal Guide: _____

Head of Dept.: _____

INTRODUCTION

Generic Stores is a rather broad definition that can include online system, supplier aids and interactive displays. In our case, we're talking about the software that runs on both the front counter and back office operations of a Stores.

A Generic Stores is a standalone application that executes a collection of protocols to coordinate the actions of multiple processes on a network, such that all components cooperate together to perform a single or small set of related tasks.

This system is good when one has an established Shop and wants his/her Stores to be maintained properly.

One of its advantages is the ability to place and delivery orders on customer's door step.

The system can easily be altered to accommodate changes in the number of users, resources and computing way, and can also be larger and more powerful

EXISTING SYSTEM

Current inventory management systems are for a single domain only.

Current system does not allow owner to change his/her business domain.

Inventory software programs now on the market lets you track usage and monitor changes in unit Costs.

Current system does not provide a consolidated sales report at the end of every specified time period.

NEED FOR NEW SYSTEM

If a stores owner wants to change his/her business domain one cannot because current inventory systems only support a particular single business domain.

In current system records are not updated with every sale, leaving inventory record not up-to-date for some time.

Owner does not have any clue of product sales.

Difficult to update.

PROPOSED SYSTEM

Using Generic Stores one can even control inventory right at the cash register .Generic Stores software records each sale when it happens, so your inventory records are always up-to-date.

Using Generic Stores we can generate bills for all business domains.

Objectives to be fulfilled

1. Software that updates records with every sale.
2. Generate bill for any given business domain.
3. Power to change business domain.
4. Door-step delivery of any order placed and confirmed by customer.
5. Easy to update system.
6. Saves time.

System features

Inputs

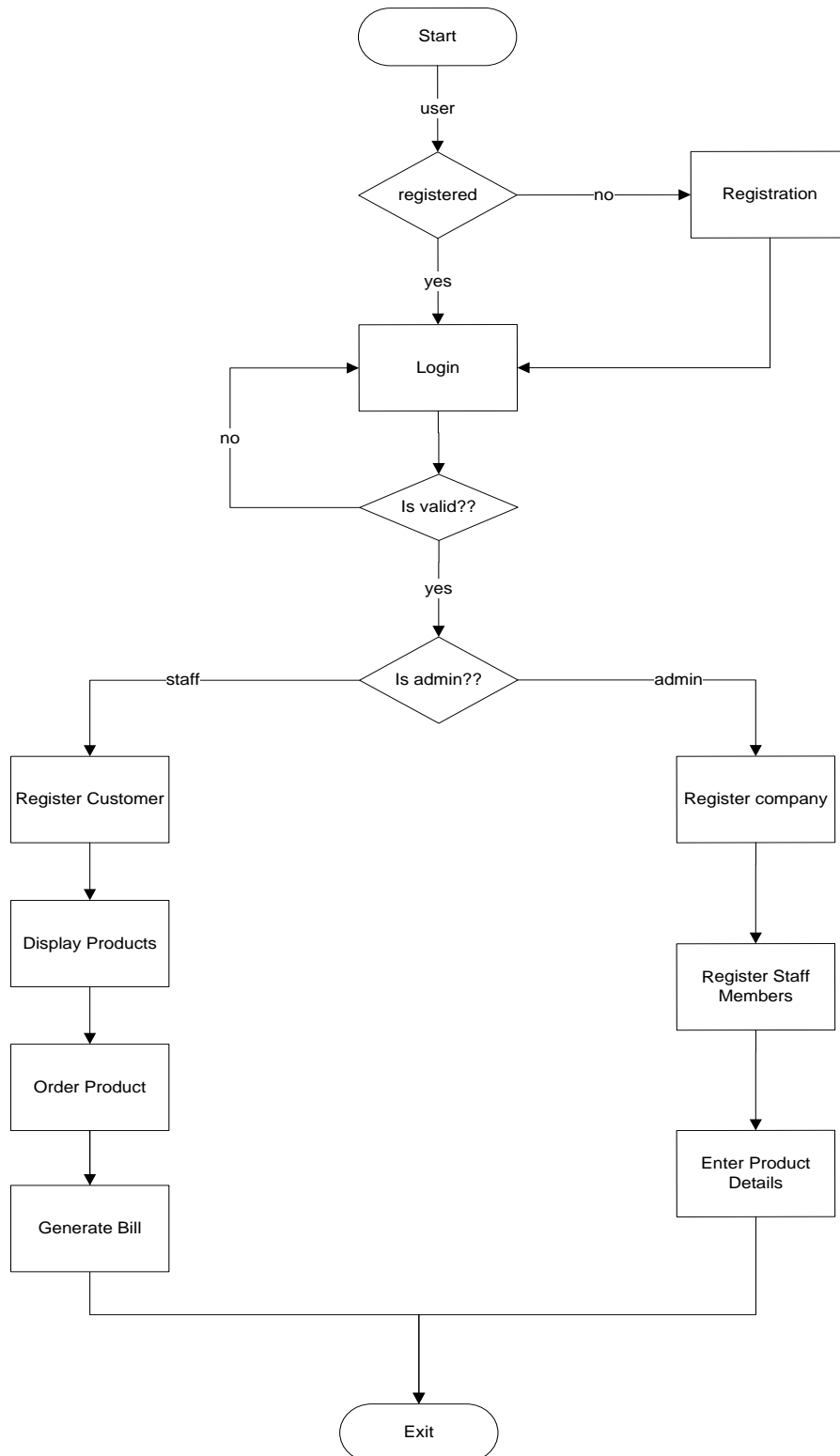
- Personal Information
- Staff Member Details
- Customer Details
- Domain Name
- Company Details
- Product Details
- Order Details

Outputs

- Display Product Details
- Bill

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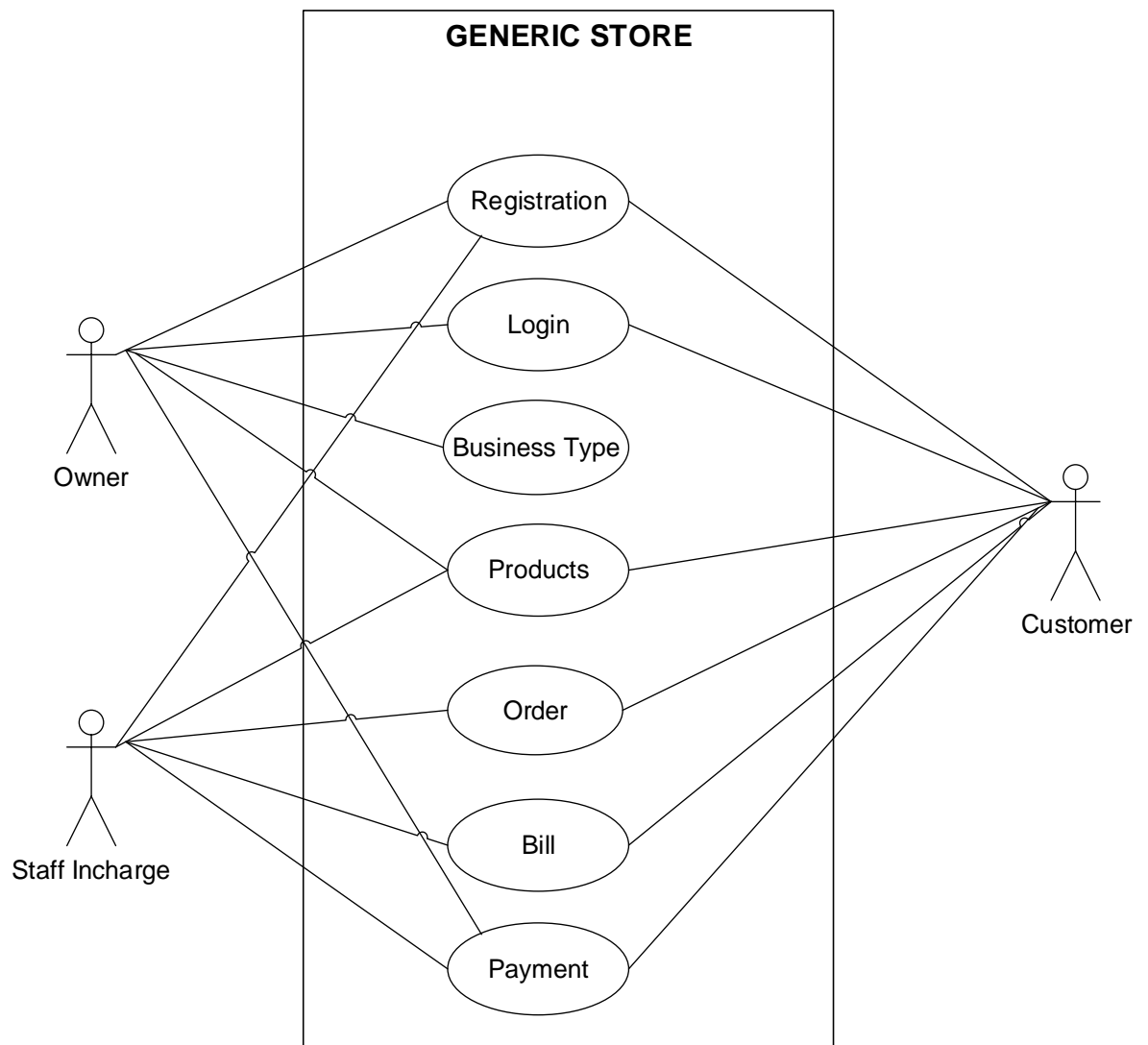
System flow chart



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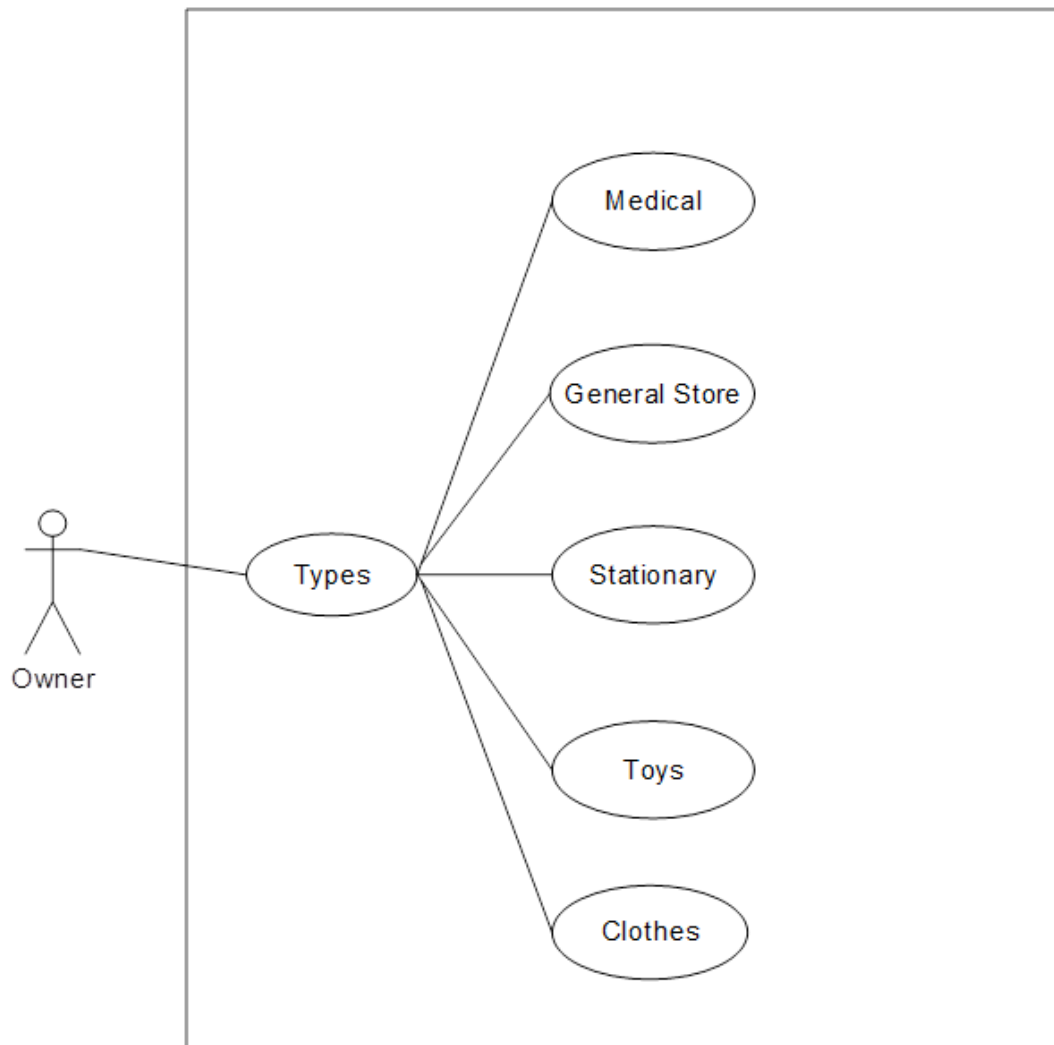
UML Diagram

USECASE



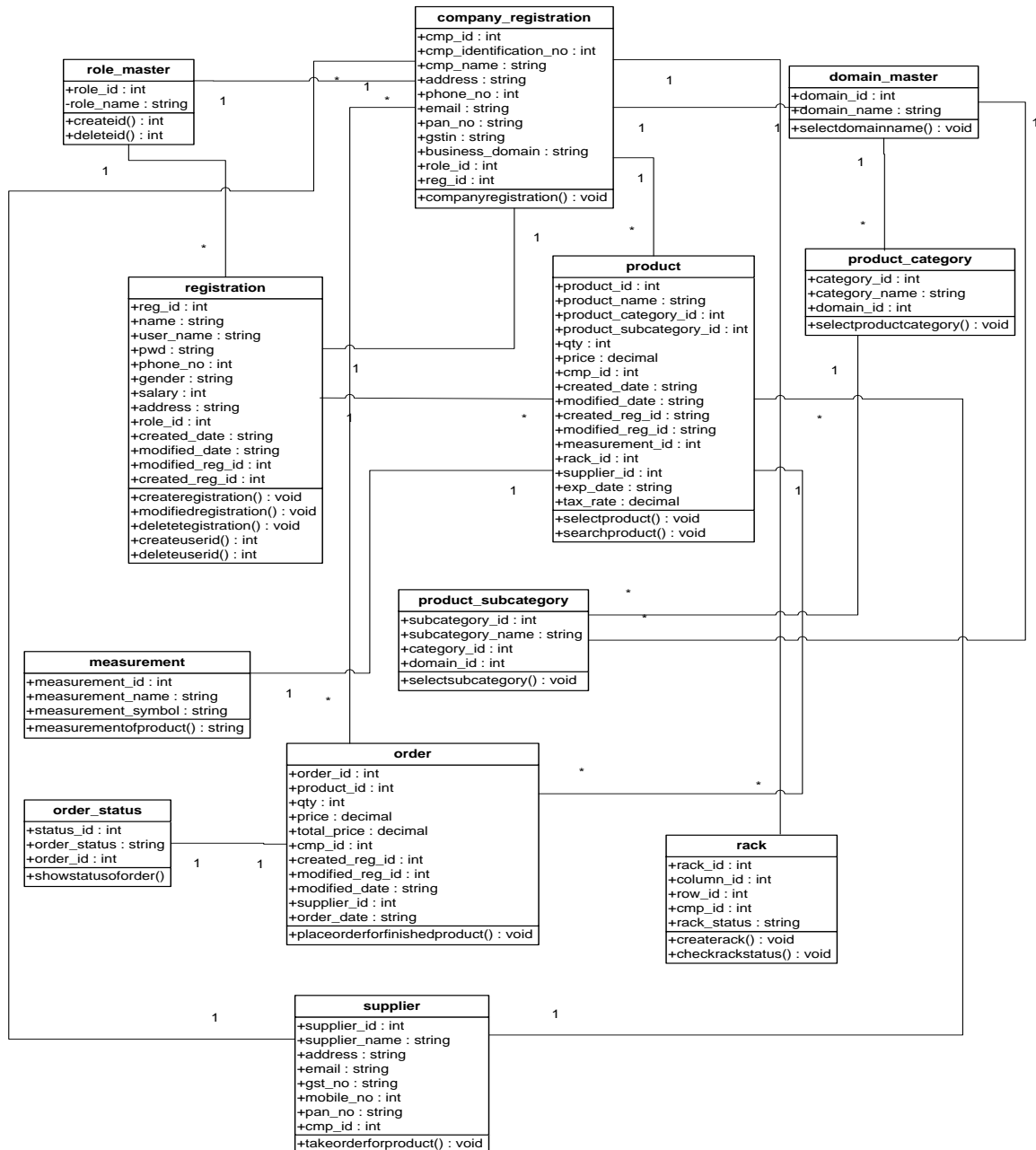
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SUB-USECASE



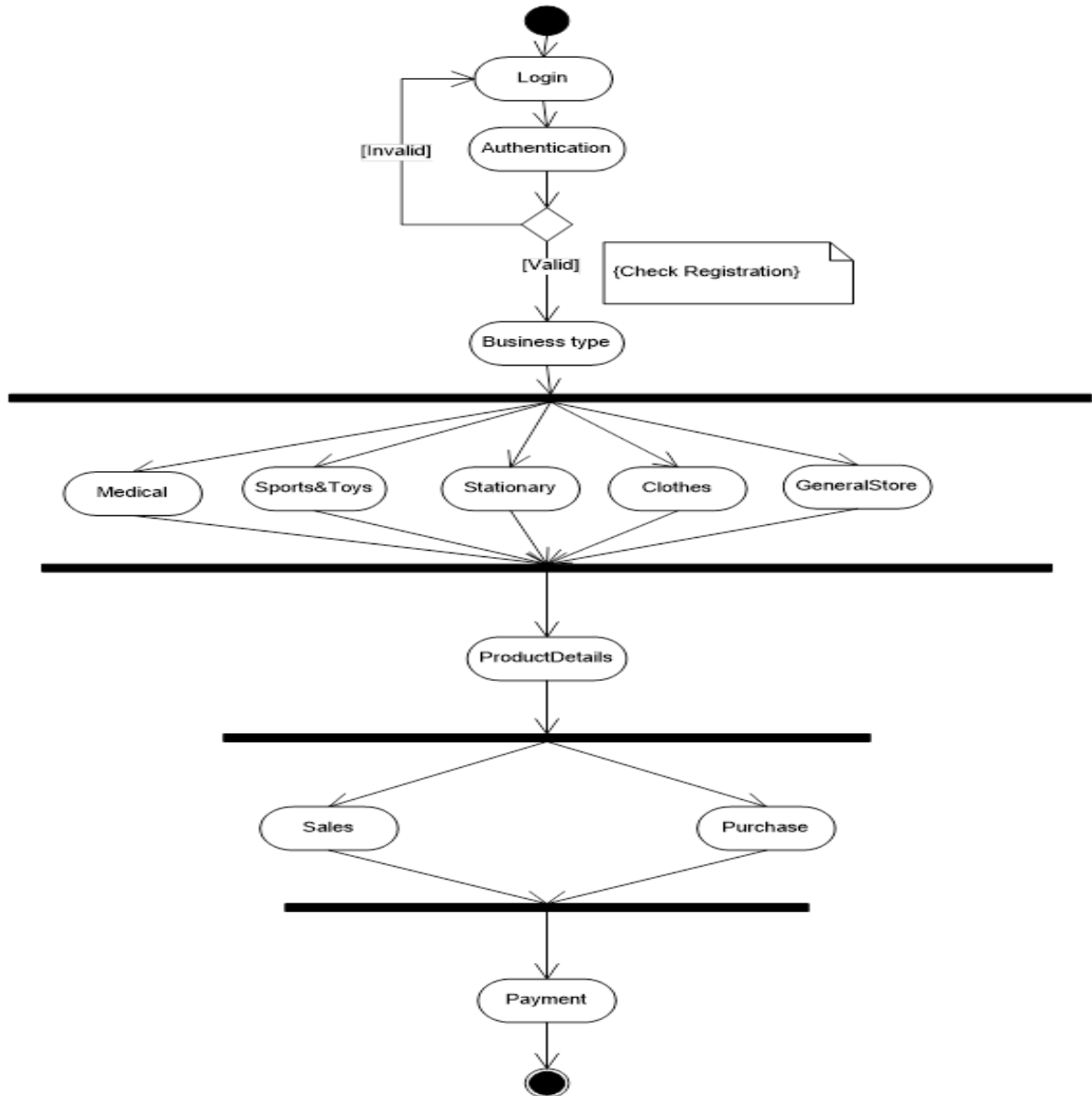
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CLASS DIAGRAM

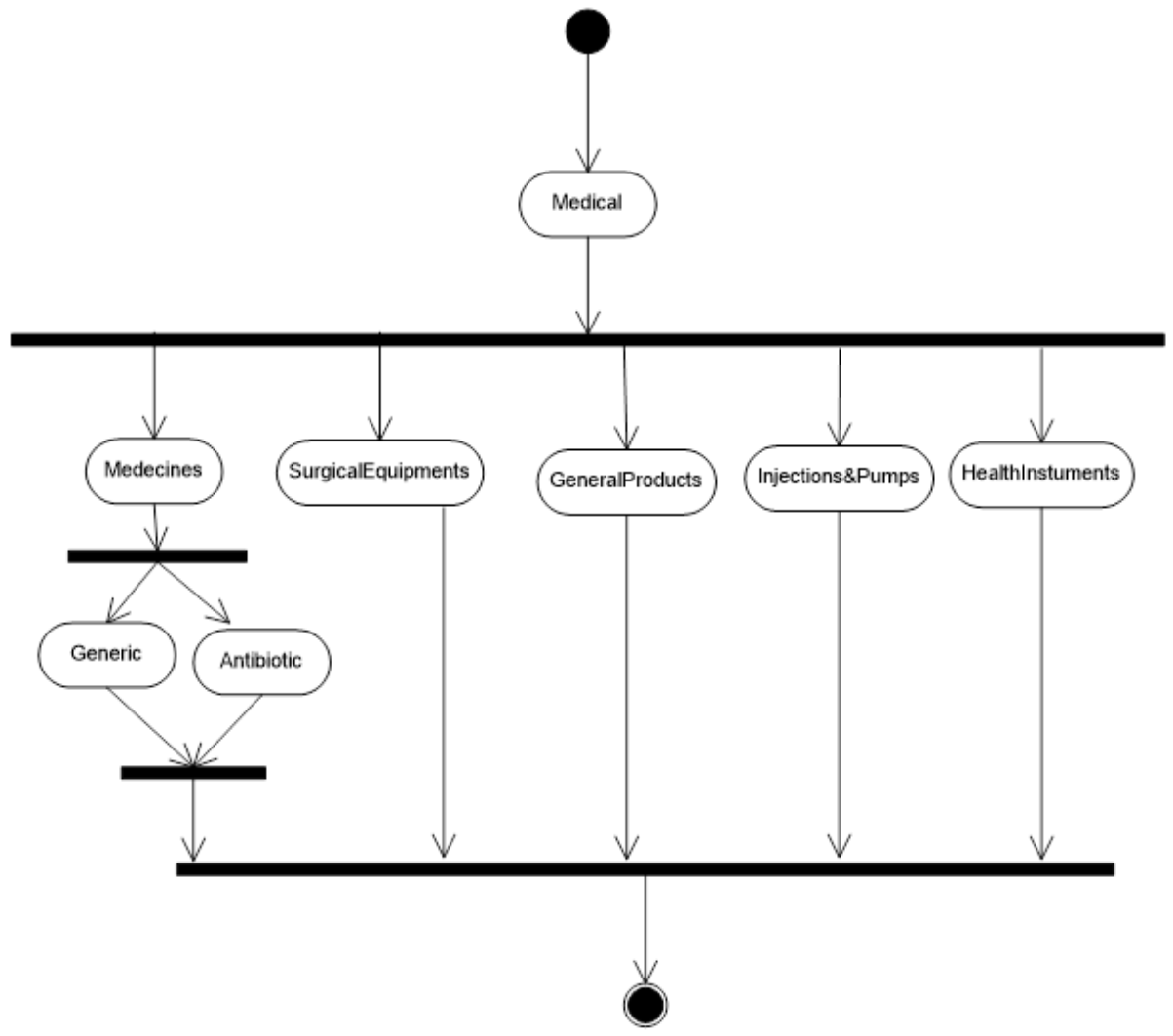


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ACTIVITY DIAGRAM

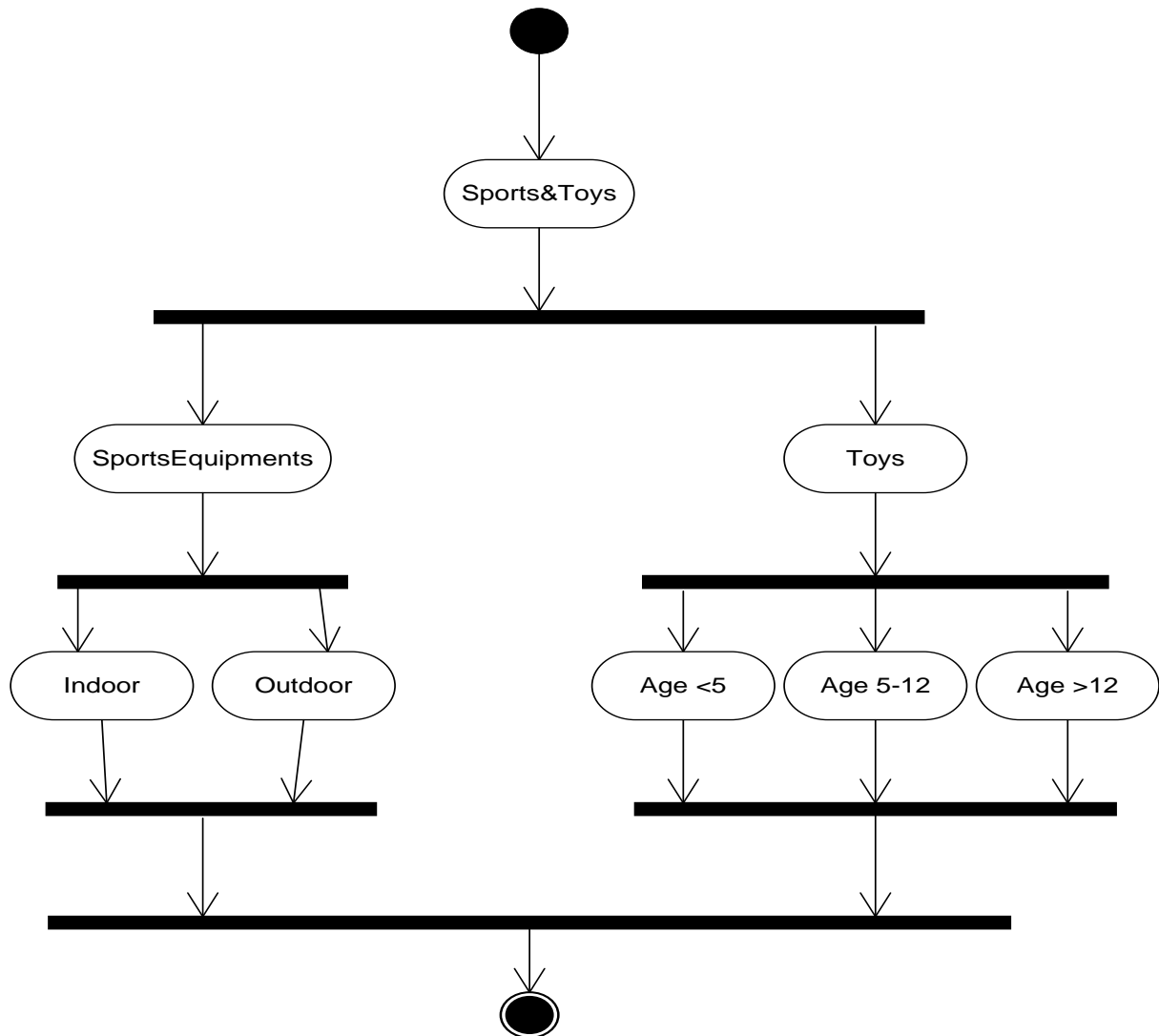


SUB-ACTIVITY DIAGRAM OF MEDICAL STORES

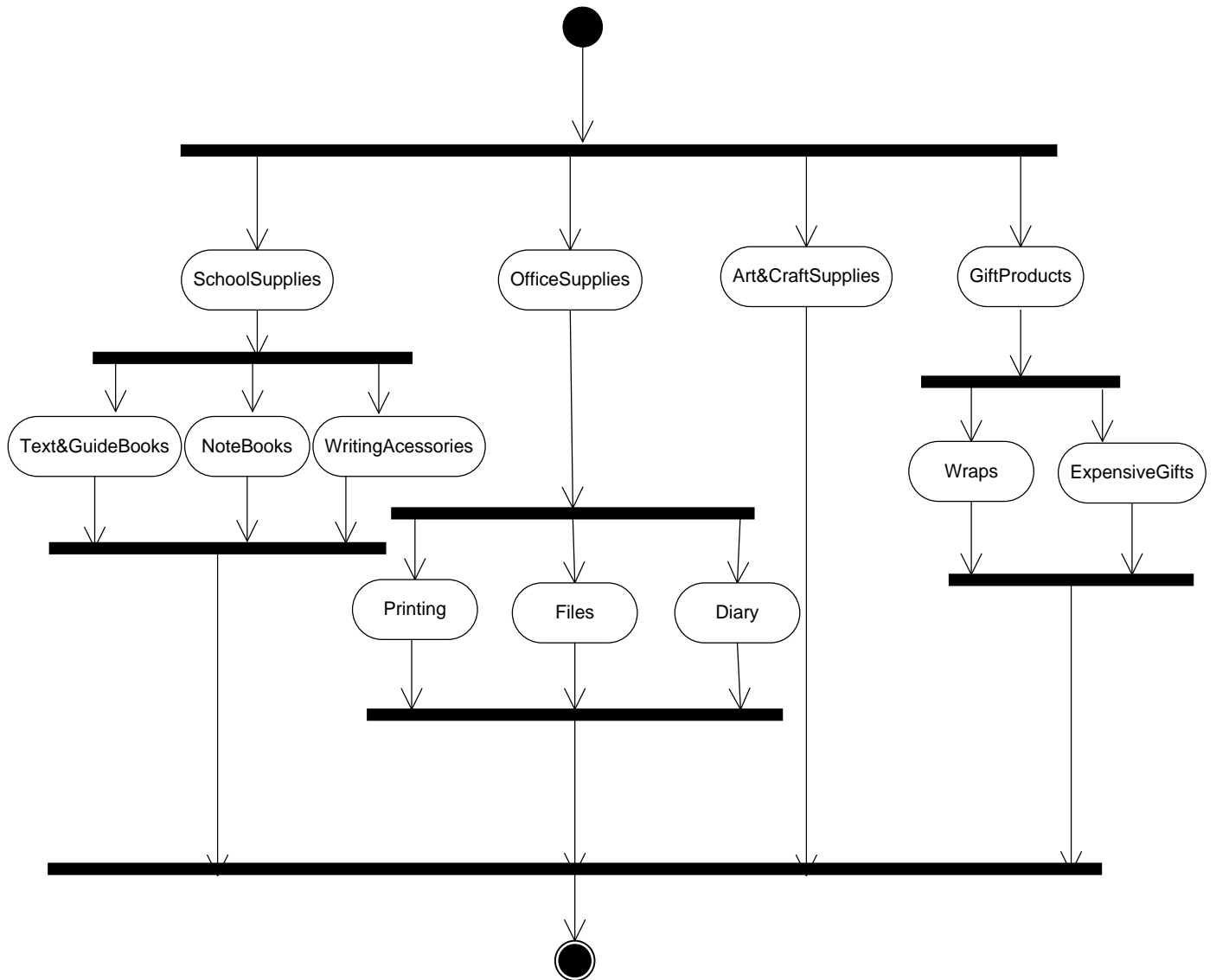


GENERIC STORE

SUB-ACTIVITY DAIGRAM OF SPORTS AND TOYS

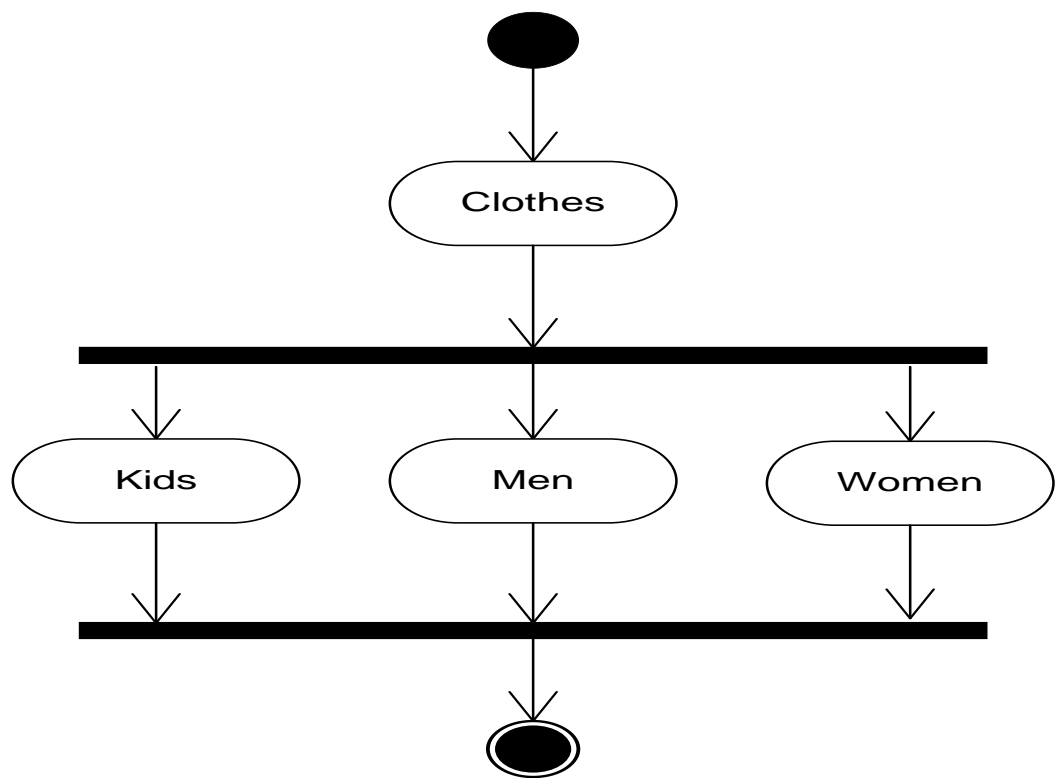


SUB-ACTIVITY DIAGRAM OF STATIONARY STORES

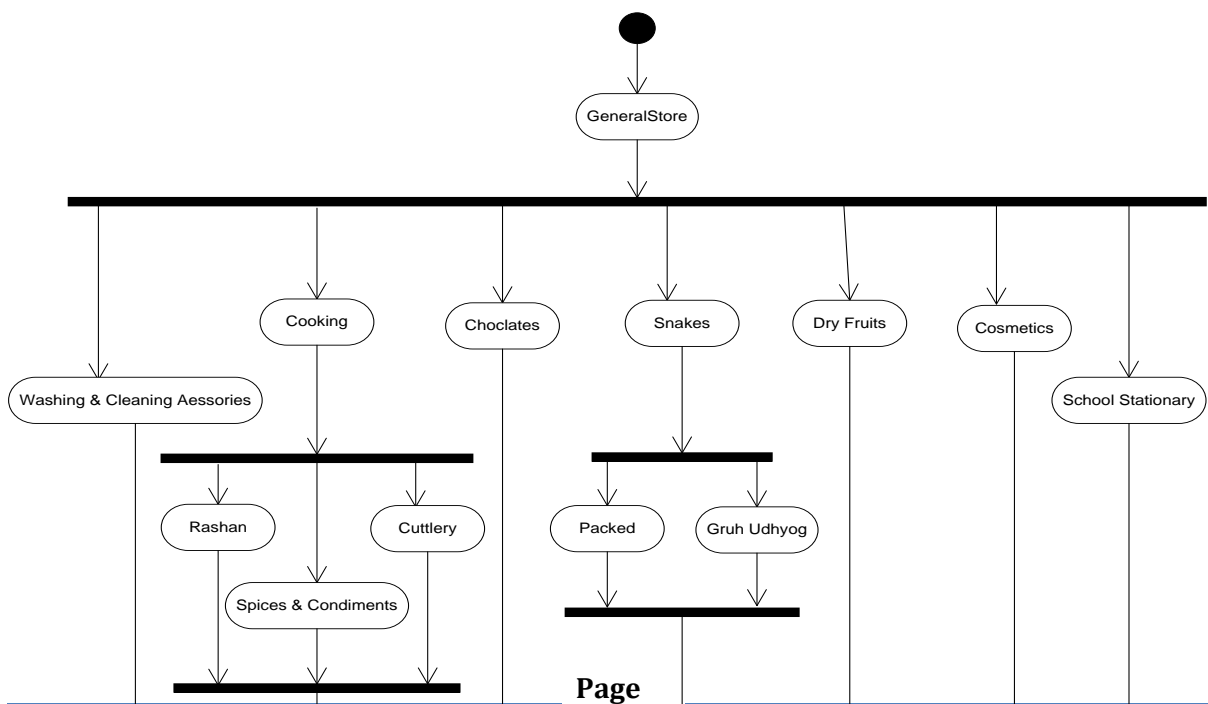


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SUB-ACTIVITY DIAGRAM OF CLOTHES STORES



SUB-ACTIVITY DIAGRAM OF GENERAL STORES



List of Modules / reports

Modules

- Registration module
- Business domain module
- Products details module
- Order module
- Billing module
- Payment module

Database Files / Data Dictionary

Role Master Table

Field Name	Data-type	Size	Constraints	Description
role_id	int	38	Primary key	Stores role id.
role_name	varchar	30	Not null	Stores role name.

Registration Table

Filed Name	Data-type	Size	Constraints	Description
reg_id	int	38	Primary	Stores unique identification

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				number.
Name	varchar	100	Not null	Stores name.
user_name	varchar	100	Not null	Stores email.
Pwd	varchar	100	Not null	Stores password.
phone_no	int	38	Not null	Stores phone no.
Gender	char	10	Not null	Stores gender.
Salary	int	38		Stores salary.
Address	varchar	100	Not null	Stores address
role_id	int	38	Not null	Stores role id.
created_date	Date		Not null	Stores creation date
modified_date	Date		Not null	Stores modification date
modified_reg_id	int	38	Not null	Stores the id of person who modifies it
created_reg_id	int	38	Not null	Stores the id of person who creates it

Company Registration Table

Filed Name	Data-type	Size	Constraints	Description
cmp_id	int	38	Primary	Stores company id.
cmp_identification_no	varchar	100	Not null	Stores company name.

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cmp_name	varchar	100	Not null	Stores company name.
Address	varchar	100	Not null	Stores company address.
phone_no	int	38	Not null	Stores phone no.
Email	varchar	15	Not null	Stores email id of company.
pan_no	varchar	10	Not null	Stores pan number of the company.
gstn	varchar	16	Not null	Stores GST identification number.
business_domain	varchar	100	Not null	Stores business domain.
role_id	int	38	Foreign key	Gets role id.
reg_id	int	38	Foreign key	Gets reg. id

Product Category Table

Field Name	Data-type	Size	Constraints	Description
category_id	int	38	Primary key	Stores category id.
category_name	varchar	100	Not null	Stores category name.
domain_id	int	38	Foreign key	Gets domain id

Product Sub-category Table

Field Name	Data-type	Size	Constraints	Description
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subcategory_id	int	38	Primary key	Stores sub-category id.
subcategory_name	varchar	100	Not null	Stores sub-category name.
category_id	int	38	Foreign key	Gets category id.
domain_id	int	38	Foreign key	Gets company domain id.

Product Table

Field Name	Data-type	Size	Constraints	Description
product_id	int	38	Primary key	Stores product id.
product_name	varchar	100	Not null	Stores product name.
product_category_id	int	38	Foreign key	Gets product category id.
product_subcategory_id	int	38	Foreign key	Gets product sub-category id.
qty	int	38	Not null	Stores quantity of product.
Price	int	38	Not null	Stores price of product.
cmp_id	int	38	Foreign key	Gets company id.
created_date	Date		Not null	Stores date.
modified_date	Date		Not null	Stores date.
modified_reg_id	int	38	Not null	Stores the id of person who modifies it.

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created_reg_id	int	38	Not null	Stores the id of person who creates it.
measurement_id	int	38	Foreign key	Gets measurement id.
rack_id	int	38	Foreign key	Gets rack id.
supplier_id	int	38	Foreign key	Gets supplier id.
exp_date	Date	38	Not null	Stores expiry date.
tax_rate	int	38	Not null	Stores tax rate of the product.

Order Table

Field Name	Data-type	Size	Constraints	Description
order_id	int	38	Primary key	Stores order id.
reg_id	int	38	Foreign key	Stores registration id.
product_id	int	38	Foreign key	Stores product id.
Qty	int	38	Not null	Stores quantity.
Order_date	Date		Not null	Stores order date.
price	int	38	Not null	Stores price of product .
total_price	int	38	Not null	Stores total price of order.
order_status	Varchar	100	Foreign key	Gets order status.
cmp_id	int	38	Foreign key	Gets company id.

GENERIC STORE

created_date	Date		Not null	Stores date.
modified_date	Date		Not null	Stores date.
modified_reg_id	int	38	Not null	Stores the id of person who modifies it.
created_reg_id	int	38	Not null	Stores the id of person who creates it.

Purchase/Sale Table

Field Name	Datatype	Size	Constraints	Description
purchase_category_id	int	38	Primary key	Stores purchase category id
purchase_category_name	varchar	100	Not null	Stores purchase category name

Measurement Table

Field Name	Data-type	Size	Constraints	Description
measurement_id	int	38	Primary key	Stores measurement id
measurement_name	varchar	100	Not null	Stores measurement name

Domain Master Table

Field Name	Data-type	Size	Constraints	Description
domain_id	int	38	Primary key	Stores domain id

GENERIC STORE

domain_name	varchar	100	Not null	Stores measurement name
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Rack Table

Field Name	Data-type	Size	Constraints	Description
rack_id	int	38	Primary key	Stores rack id.
role_id	int	38	Not null	Stores row id.
column_id	int	38	Not null	Stores column id.
rack_status	int	38		Stores rack status(occupied/null).
cmp_id	int	38	Foreign key	Gets company id.

Supplier Table

Field Name	Data-type	Size	Constraints	Description
supplier_id	int	38	Primary key	Stores supplier id.
supplier_name	varchar	100	Not null	Stores supplier name.
Address	varchar	100	Not null	Stores address.
Email	varchar	100	Not null	Stores email of the supplier.
gst_no	varchar	11	Not null	Stores GST number.
mobile_no	int	38	Not null	Stores mobile number of supplier.
pan_no	varchar	38	Not null	Stores pan number.

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cmp_id	int	38	Foreign key	Gets company id.
product_id	int	38	Foreign key	Gets product id.

Order Status Table

Field Name	Data-type	Size	Constraints	Description
order_status_id	int	38	Primary key	Stores order status id.
order_status_name	varchar	100	Not null	Stores order status name.

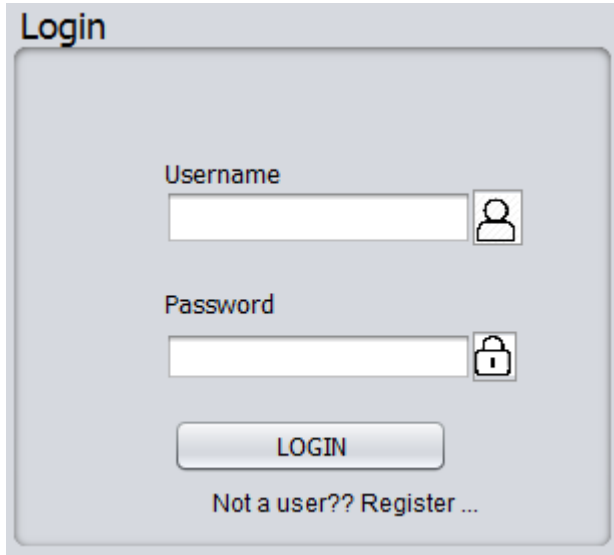
Payment Table

Field Name	Data-type	Size	Constraints	Description
payment_id	int	38	Primary key	Stores payment id.
order_id	int	38	Foreign key	Gets order id.
payment_status	varchar	100		Stores payment status.

Data Entry Screens

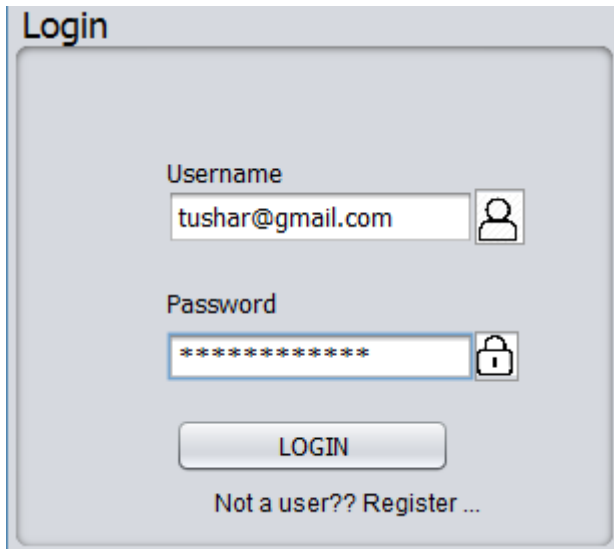
Login Page

(1)



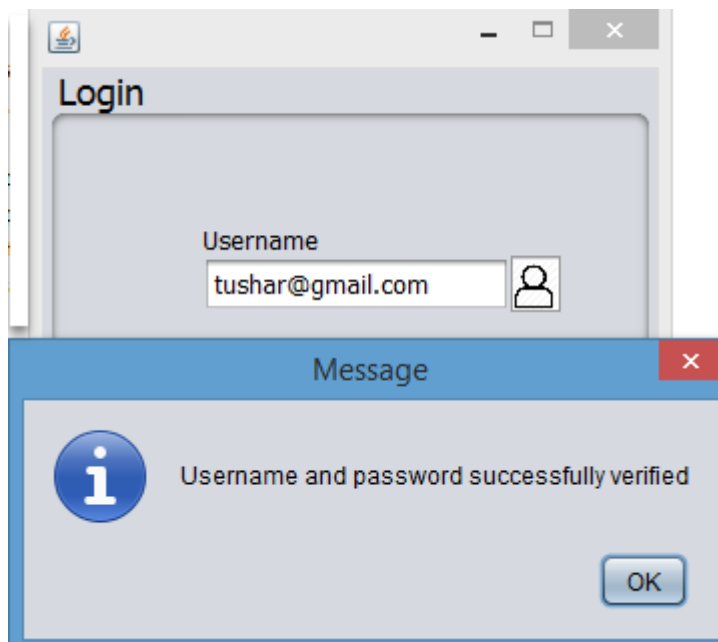
A screenshot of a web application's login page. The page has a light gray background with a darker gray border. At the top left, the word "Login" is written in a bold, black font. Below it, there are two input fields. The first is labeled "Username" and contains a white text box with a small user icon to its right. The second is labeled "Password" and contains a white text box with a small padlock icon to its right. Below these fields is a rounded rectangular button labeled "LOGIN". At the bottom, there is a link that says "Not a user?? Register ...".

(2)



A screenshot of the same login page as in (1), but with data entered. The "Username" field now contains the text "tushar@gmail.com". The "Password" field contains ten asterisks "*****". The "LOGIN" button and the "Not a user?? Register ..." link are still visible at the bottom.

(3)

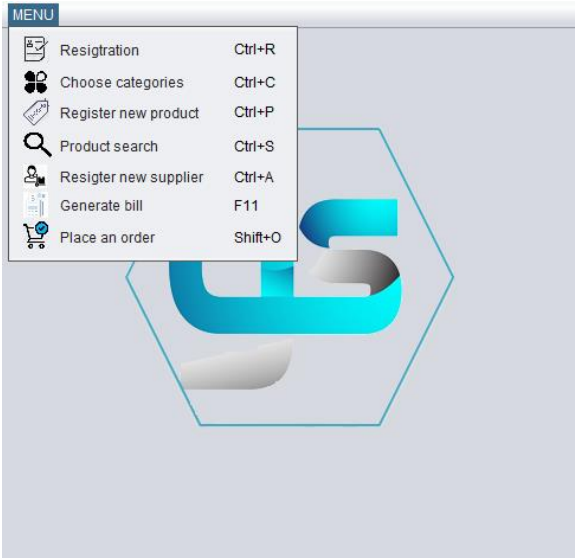


Navigation Page

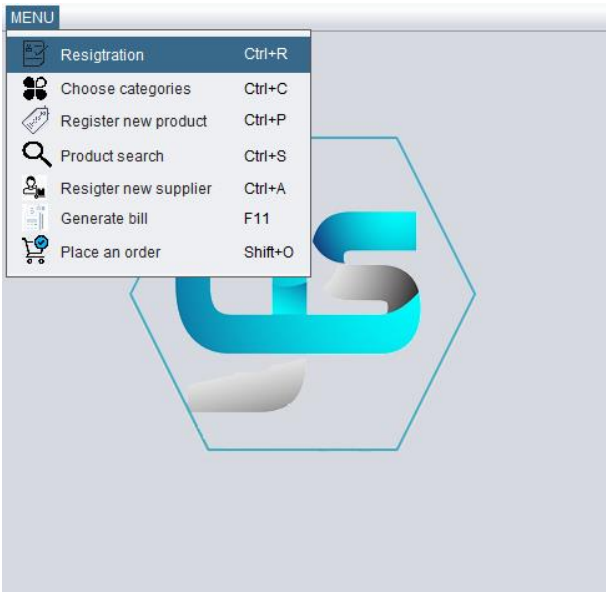
(1)



(2)



(3)



GENERIC STORE

Test Plan & Test Cases

PROJECT NAME : Generic Store	
Test Case Id : 001	Test designed by : Bianca
Test Priority (Low/Medium/High) : High	Test executed by : Dharati
Module Name : Registration	
Test Title : 1. Email 2. Phone Number 3. Company Identification Number 4. Pan Number 5. GST IN	
Description : Checks the validation for registration.	

Sr No.	Test Steps	Test Data	Expected Results	Status(Pass/Fail)
1	Enter email	abc@gmail.com	abc@gmail.com	Fail
2	Enter email	abc@gmail.com	abc@gmail.com	Pass
3	Enter Phone No.	98989898	9898989898	Fail
4	Enter Phone No.	9898989898	9898989898	Pass
5	Enter Phone No.	Cbc2dee9	9898989898	Fail
6	Enter Company Identification Number	640726194727189110872	IU26993U24TUI7619I871	Fail
7	Enter Company Identification Number	IU26993U24TUI7619I871	IU26993U24TUI7619I871	Pass
8	Pan Number	3718661062	IU16TU9818	Fail
9	Pan Number	IU16TU9818	IU16TU9818	Pass
10	GST IN	192837654017352	IU16TUI83831239	Fail
11	GST IN	IU16TUI83831239	IU16TUI83831239	Pass

PROJECT NAME : Generic Store	
Test Case Id : 002	Test designed by : Dharati
Test Priority (Low/Medium/High) : High	Test executed by : Bianca
Module Name : Login	

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Test Title : 1. Username 2. Password	
Description : Checks that the username and password is correct or not.	

Sr No.	Test Steps	Test Data	Expected Results	Status(Pass/Fail)
1	Enter username	abc@gmail.com	abc@gmail.com	Fail
2	Enter username	abc@gmail.com	abc@gmail.com	Pass
3	Enter Password		Not null	Fail
4	Enter Password	World@123	Not null	Pass

PROJECT NAME : Generic Store	
Test Case Id : 003	Test designed by : Bianca
Test Priority (Low/Medium/High) : High	Test executed by : Dharati
Module Name : Navigation	
Test Title : 1. Accessibility	
Description : Checks the role master id.	

Sr No.	Test Steps	Test Data	Expected Results	Status(Pass/Fail)
1	Admin	role_id	Registration,choose categories, new product registration,product search,supplier registration,generate bill	Pass
2	Staff	role_id	New product registration,product search, order,generate bill	Pass

PROJECT NAME : Generic Store	
Test Case Id : 004	Test designed by : Dharati
Test Priority (Low/Medium/High) : High	Test executed by : Bianca
Module Name : Product Details	

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Test Title : 1. Product Id 2. Product Name 3. Product Category name 4. Product Sub-category name 5. Quantity 6. Price 7. Measurement 8. Supplier	
Description : Checks the validations for product details.	

Sr No.	Test Steps	Test Data	Expected Results	Status(Pass/Fail)
1	Enter product id		System Generated	Pass
2	Enter product name	123	Product name	Fail
3	Enter product name	Product name	Product name	Pass
4	Enter Product category name	1	Category name	Fail
5	Enter Product category name	Category name	Category name	Pass
6	Enter Product Sub-category name	2	Sub-category name	Fail
7	Enter Product Sub-category name	Sub-category name	Sub-category name	Pass
8	Quantity	One	1	Fail
9	Quantity	1	1	Pass
10	Price	One Thousand	1000	Fail
11	Price	1000	1000	Pass
12	Measurement		Not null	Fail
13	Measurement	ml	Not null	Pass
14	Supplier		Not null	Fail
15	Supplier	abc stores	Not null	Pass

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PROJECT NAME : Generic Store	
Test Case Id : 005	Test designed by : Dharati
Test Priority (Low/Medium/High) : High	Test executed by : Bianca
Module Name : Display Product Details	
Test Title : 1. Search Validation	
Description : Checks that the product name is valid or not	

Sr No.	Test Steps	Test Data	Expected Results	Status(Pass/Fail)
1	Product name	1	Product name	Fail
2	Product name	Valid product name	Product name	Pass

PROJECT NAME : Generic Store	
Test Case Id : 006	Test designed by : Dharati
Test Priority (Low/Medium/High) : High	Test executed by : Bianca
Module Name : Billing	
Test Title : 1. Bill number 2. Customer name 3. Product in stock	
Description : Generates a bill.	

Sr No.	Test Steps	Test Data	Expected Results	Status(Pass/Fail)
1	Bill no		System Genrated	Pass
2	Customer name		Not null	Fail
3	Customer name	Anjali	Not null	Pass
4	Product in stock		Quantity in product table should not be equal to 0 or stock should not be less than the requirement of the customer.	Pass

PROJECT NAME : Generic Store	
Test Case Id : 007	Test designed by : Bianca
Test Priority (Low/Medium/High) : High	Test executed by : Dharati
Module Name : Order	
Test Title : 1. Product name 2. Quantity 3. Price	
Description : Orders the product	

Sr No.	Test Steps	Test Data	Expected Results	Status(Pass/Fail)
1	Product name		Not null	Fail
2	Product name	Product name	Not null	Pass
3	Quantity		Not null	Fail
4	Quantity	5	Quantity should not be less than 1	Pass
5	Price	100	Price per unit	Pass

8.Operating Environment

Software

Netbeans IDE 8.2

Microsoft Visio

Oracle XE SQL

Language

1. Java
2. Oracle

9. Proposed Enhancement

- More business domains.
- More precise rack locations.

GENERIC STORE

- User friendly interface.
- Building reports based on sales information.
- Analyze sales data, figure out how well all the items on our shelves sell, and adjust purchasing.
- Maintain a sales history to help adjust our buying decisions for seasonal purchasing trends.
- Improve pricing accuracy by integrating bar-code scanners and credit card authorization ability.

10.Conclusion

summary

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