



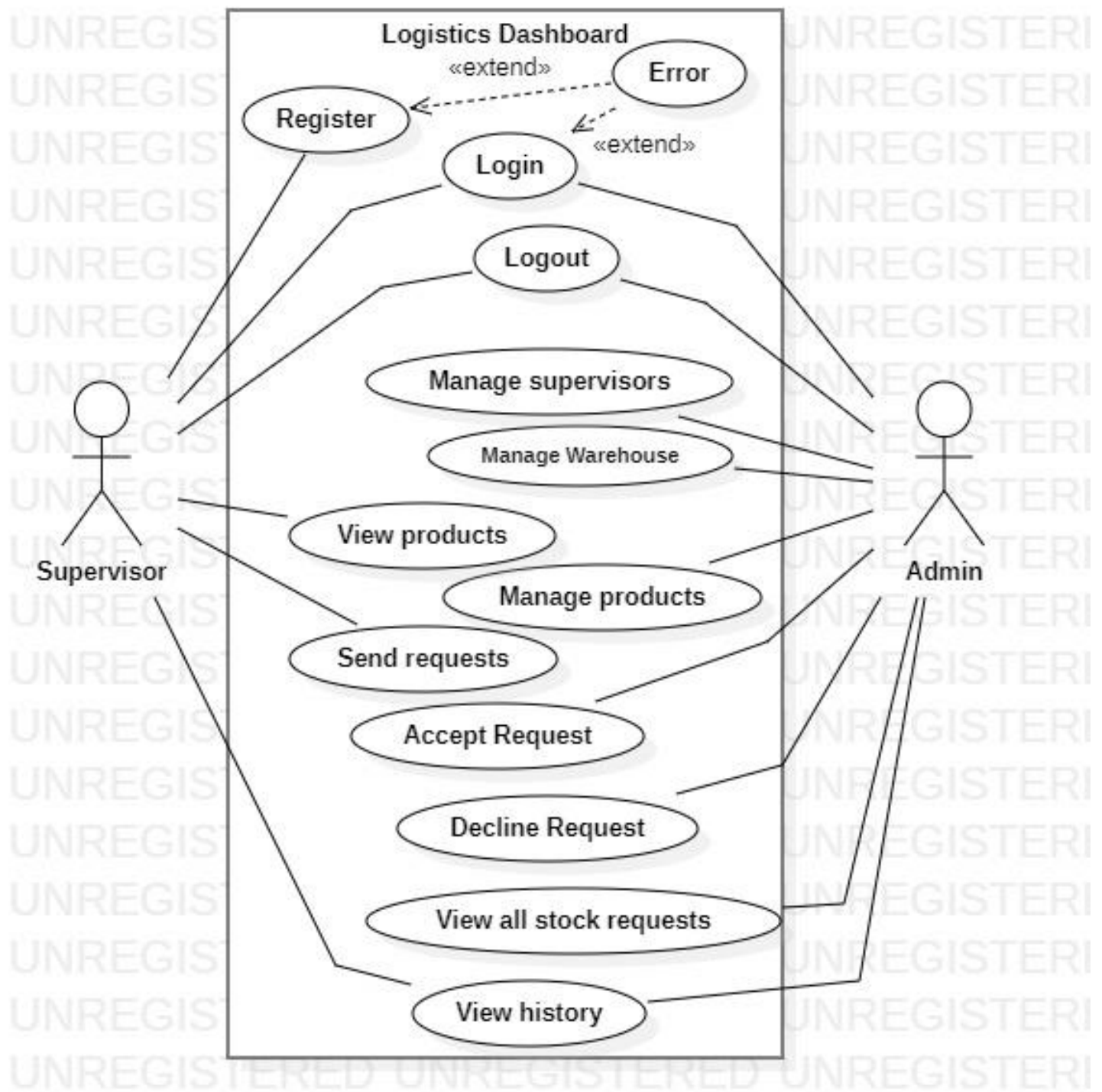
Software Engineering-2

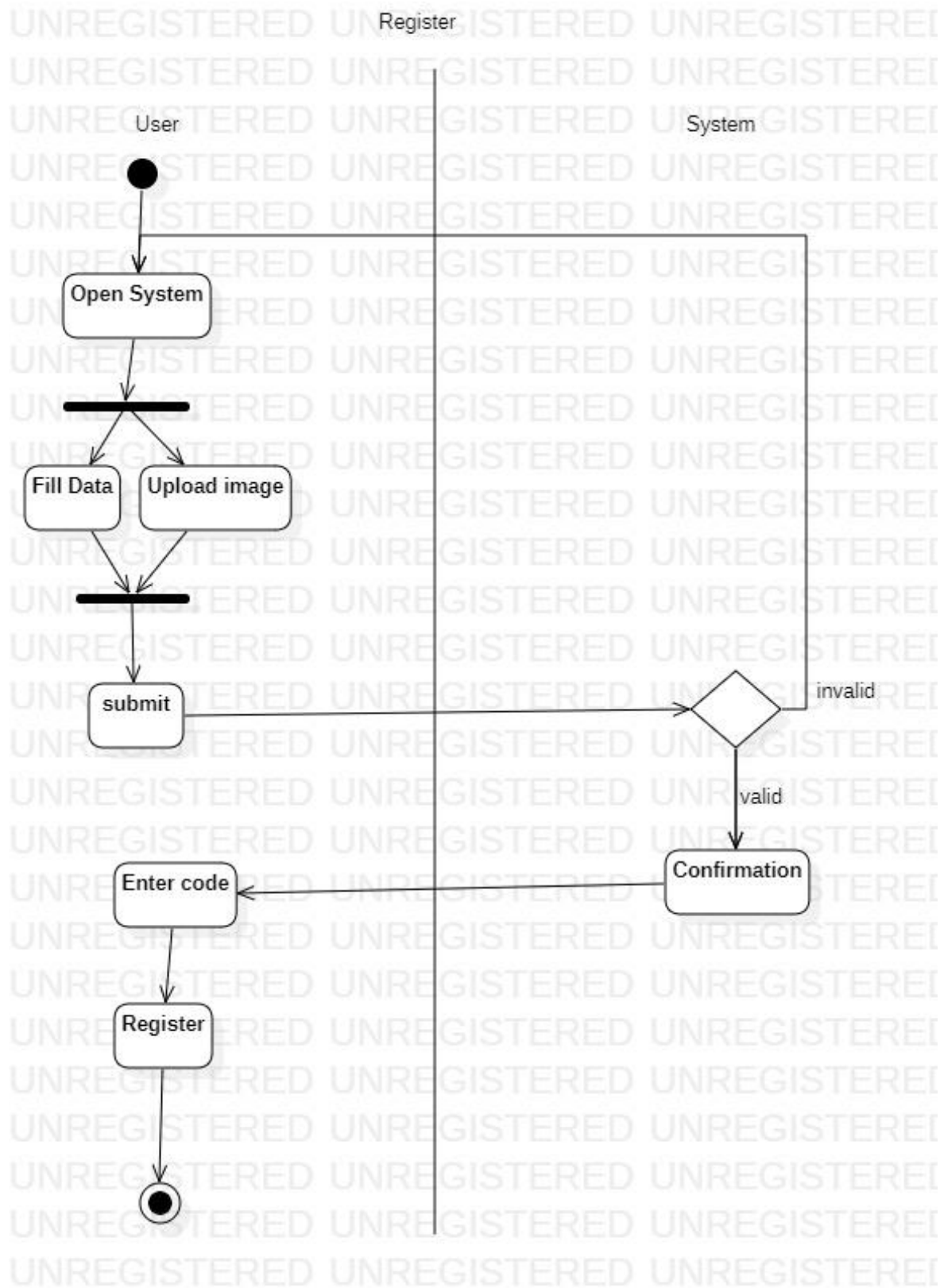
Logistics Dashboard

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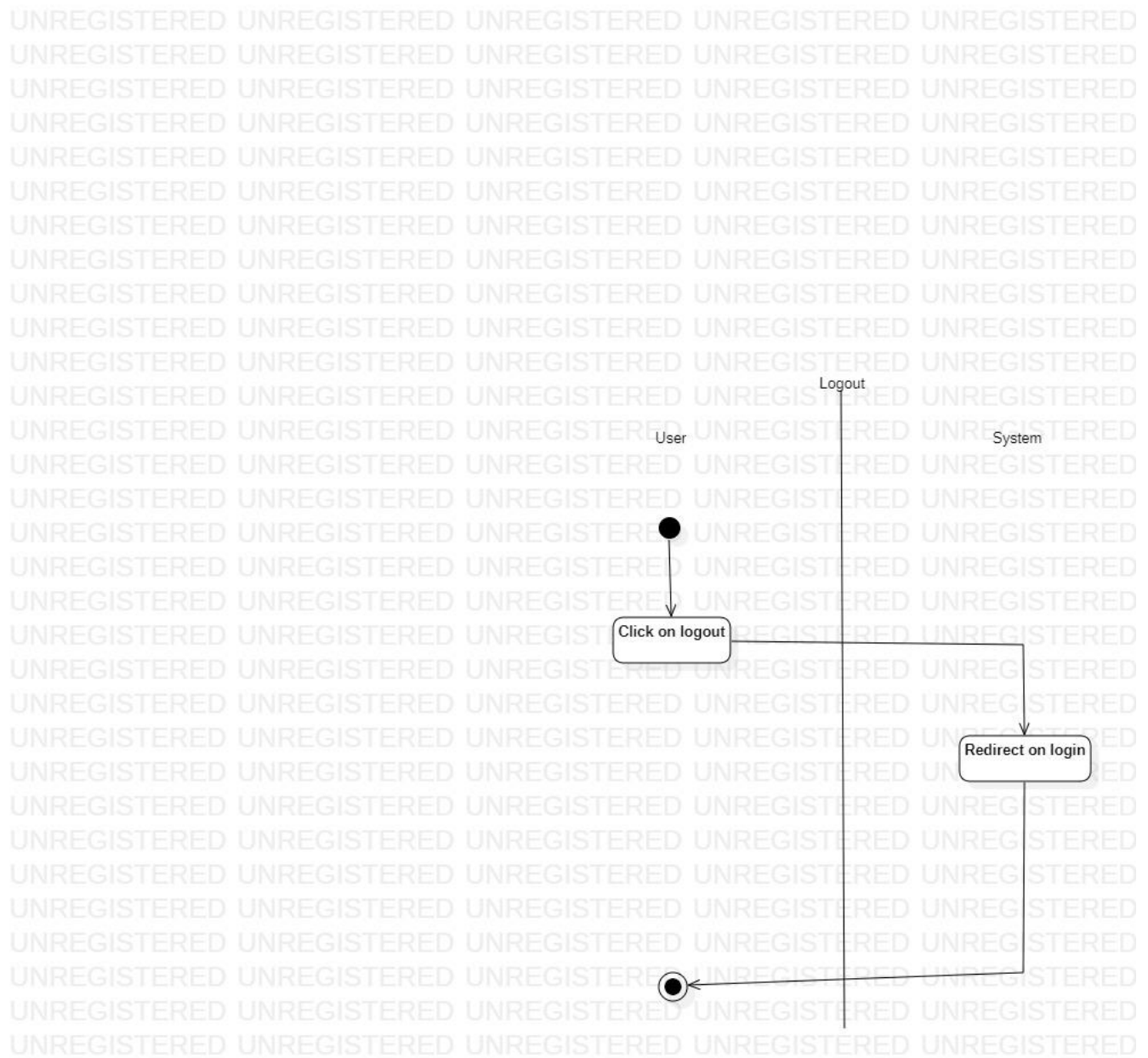
Use Case



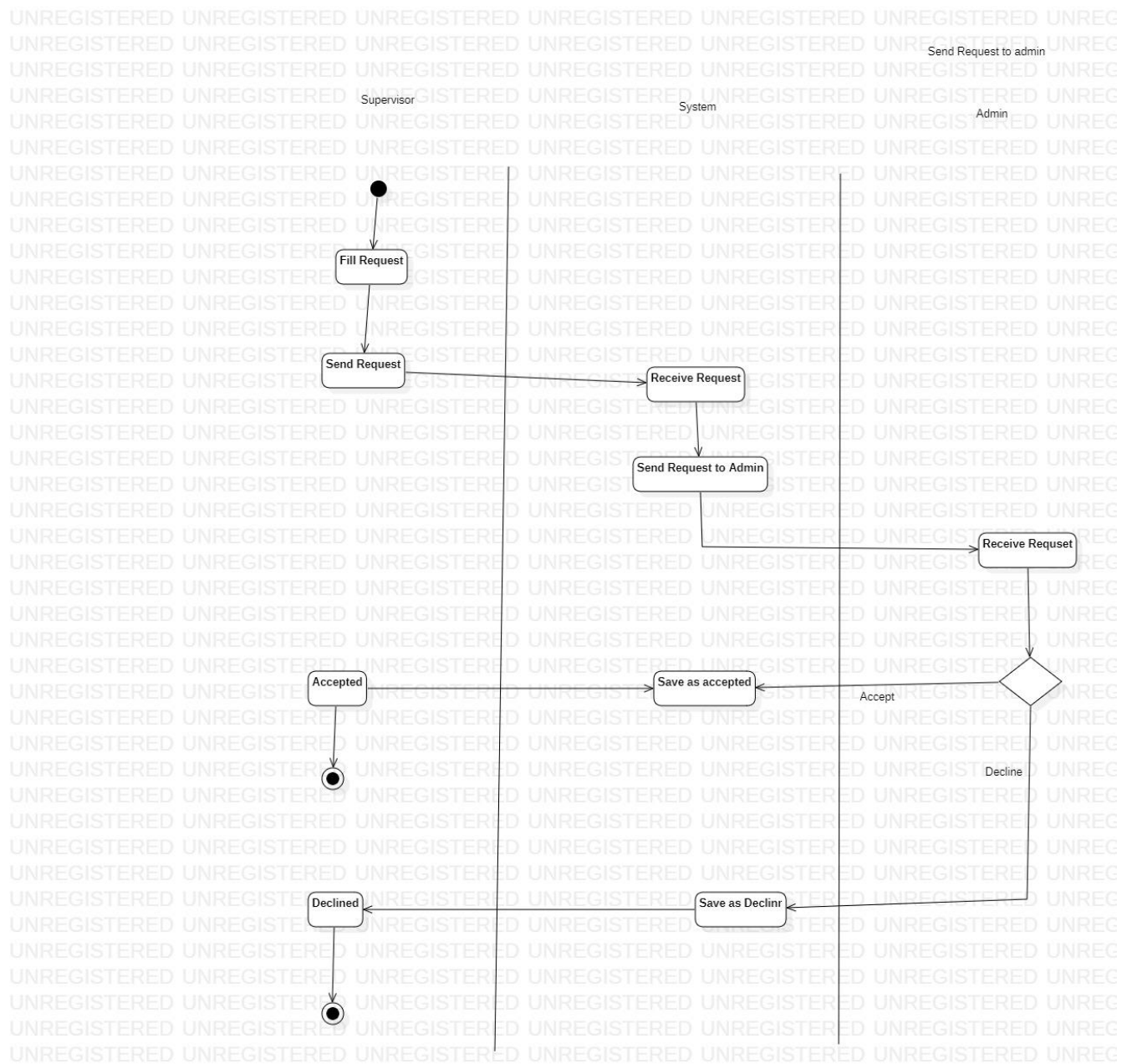
Activity**a) Register**

[UNREGISTERED](#) | [UNREGISTERED](#) | [Login](#) | [UNREGISTERED](#) | [UNREGISTERED](#)

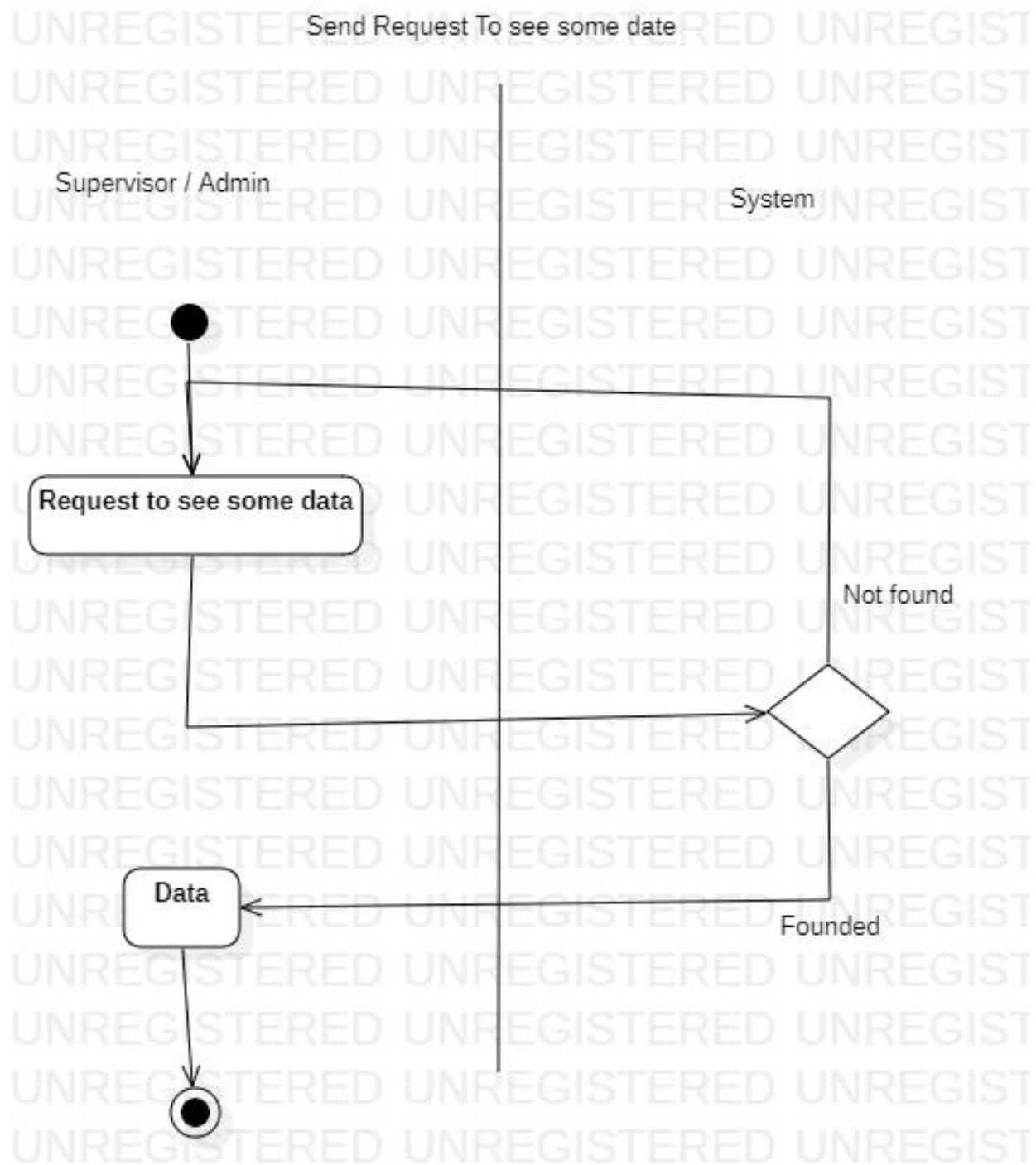
c) Logout



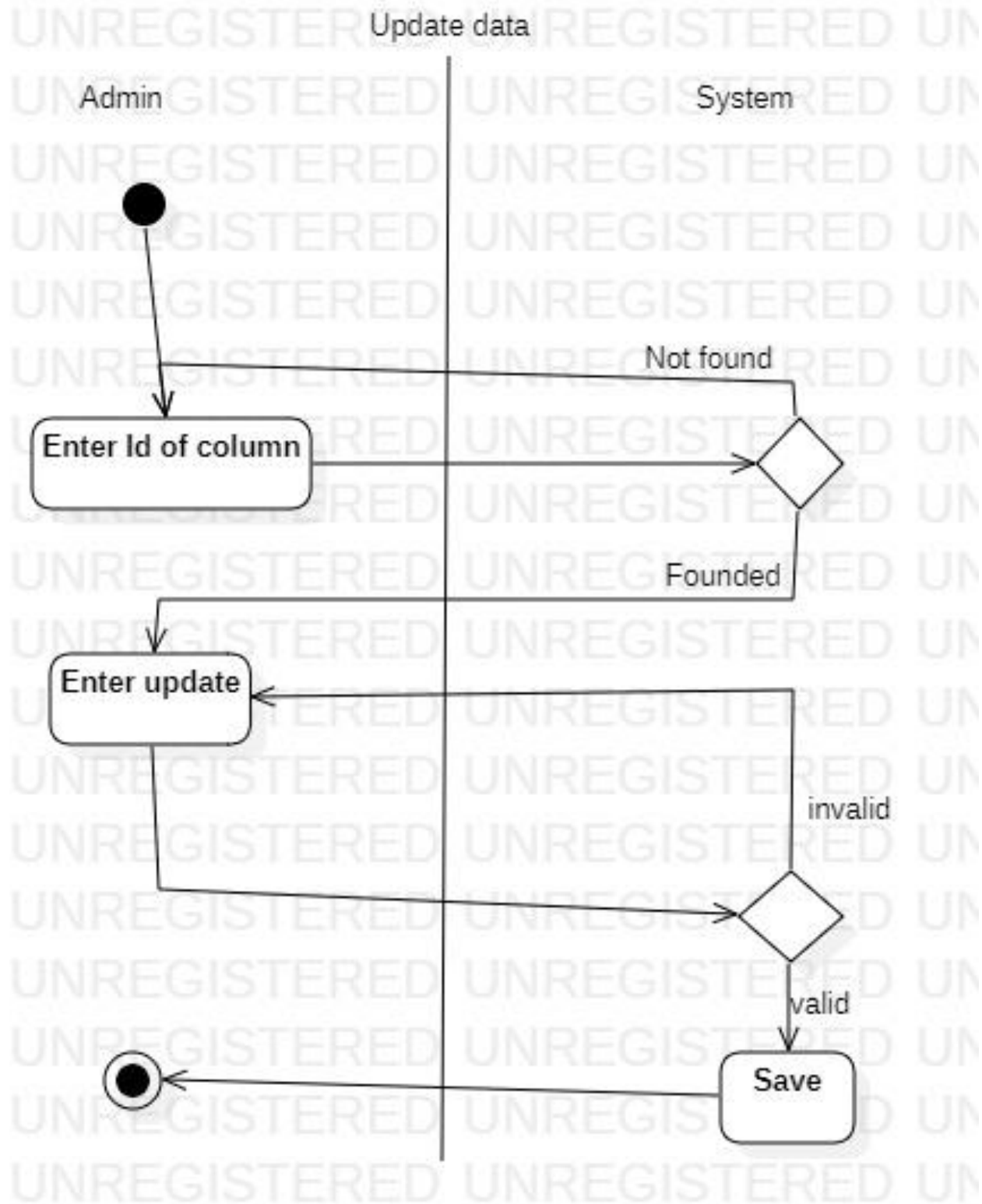
d) Send Request



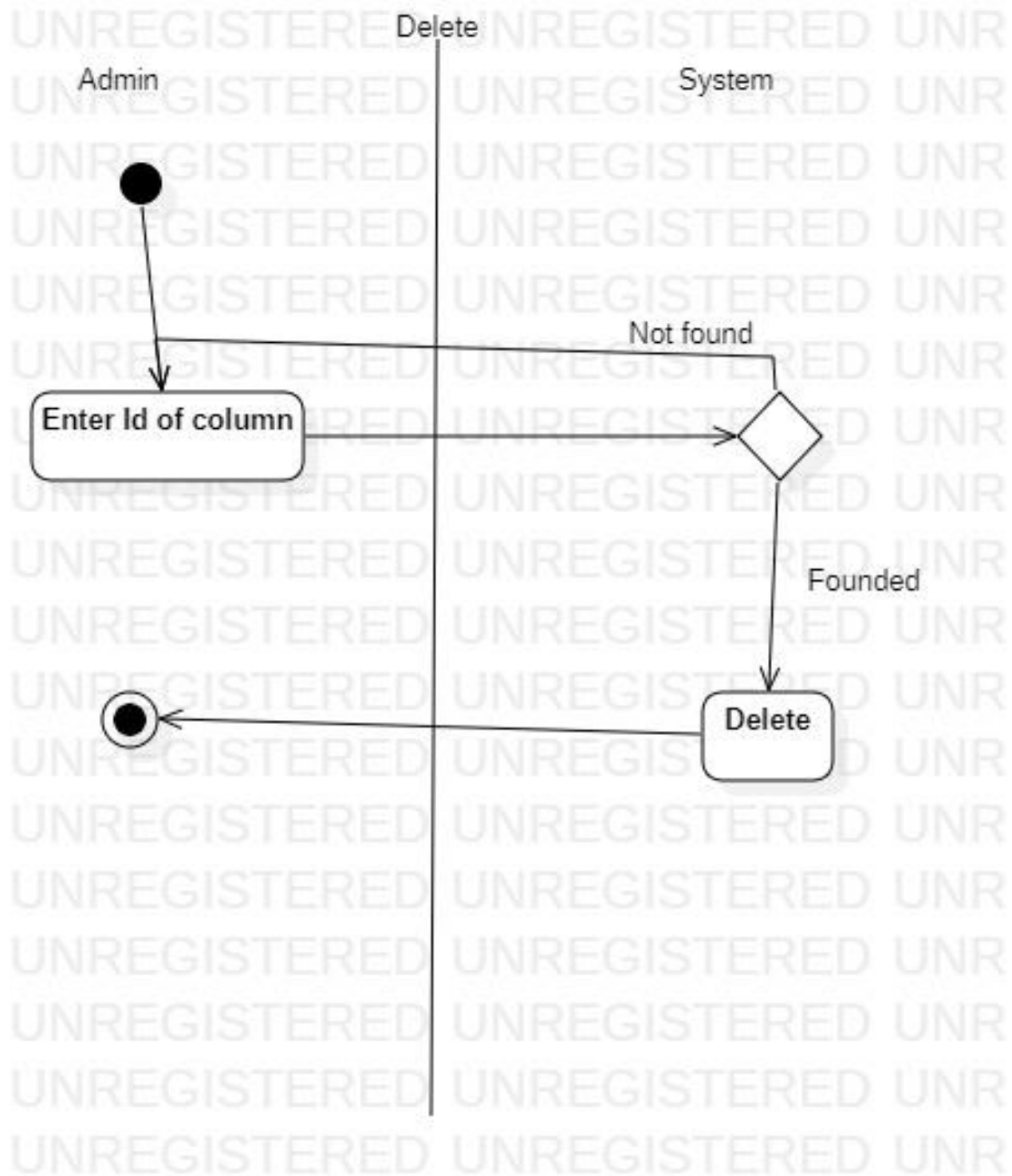
e) View Data



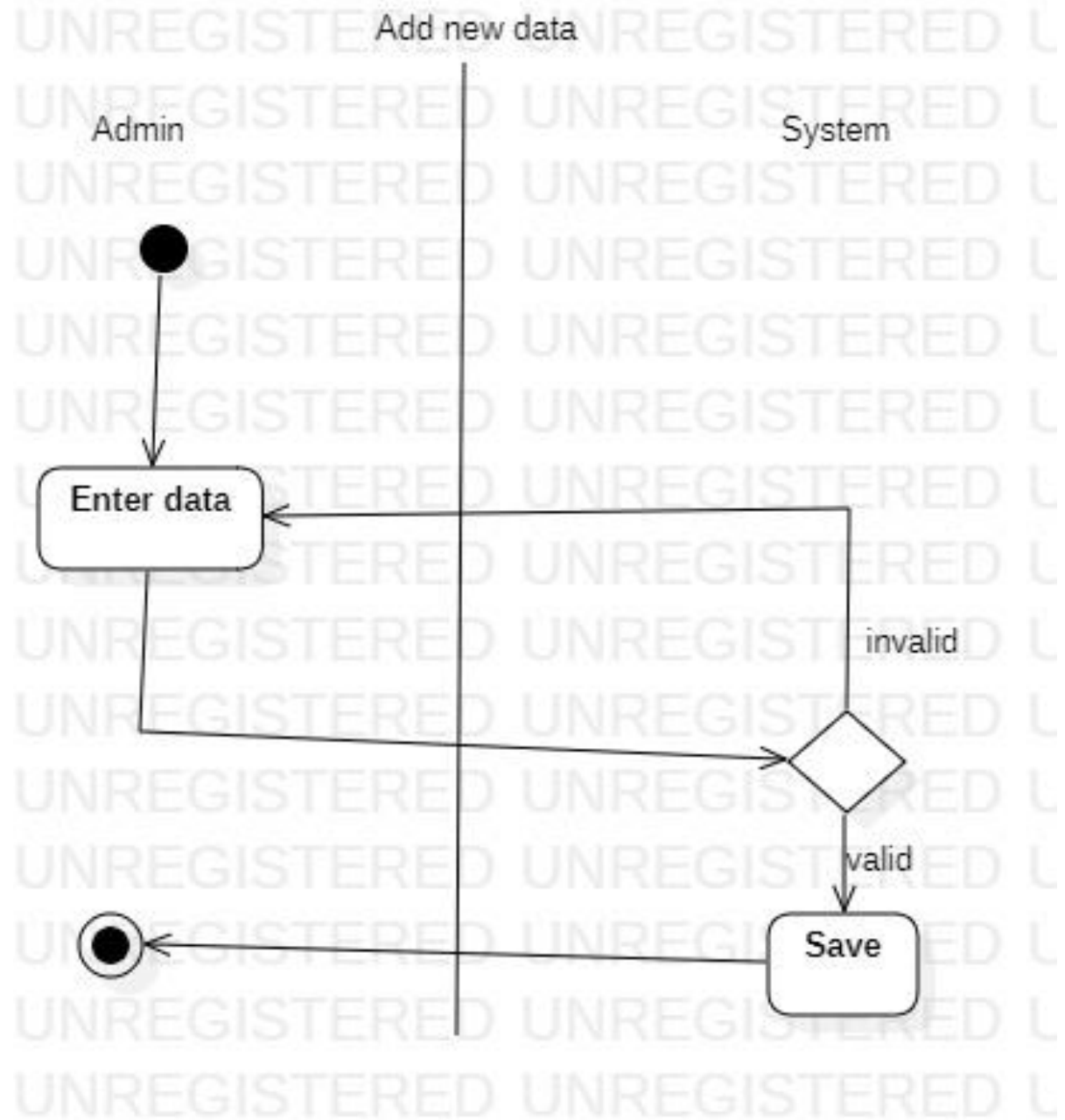
f) Update



g) Delete

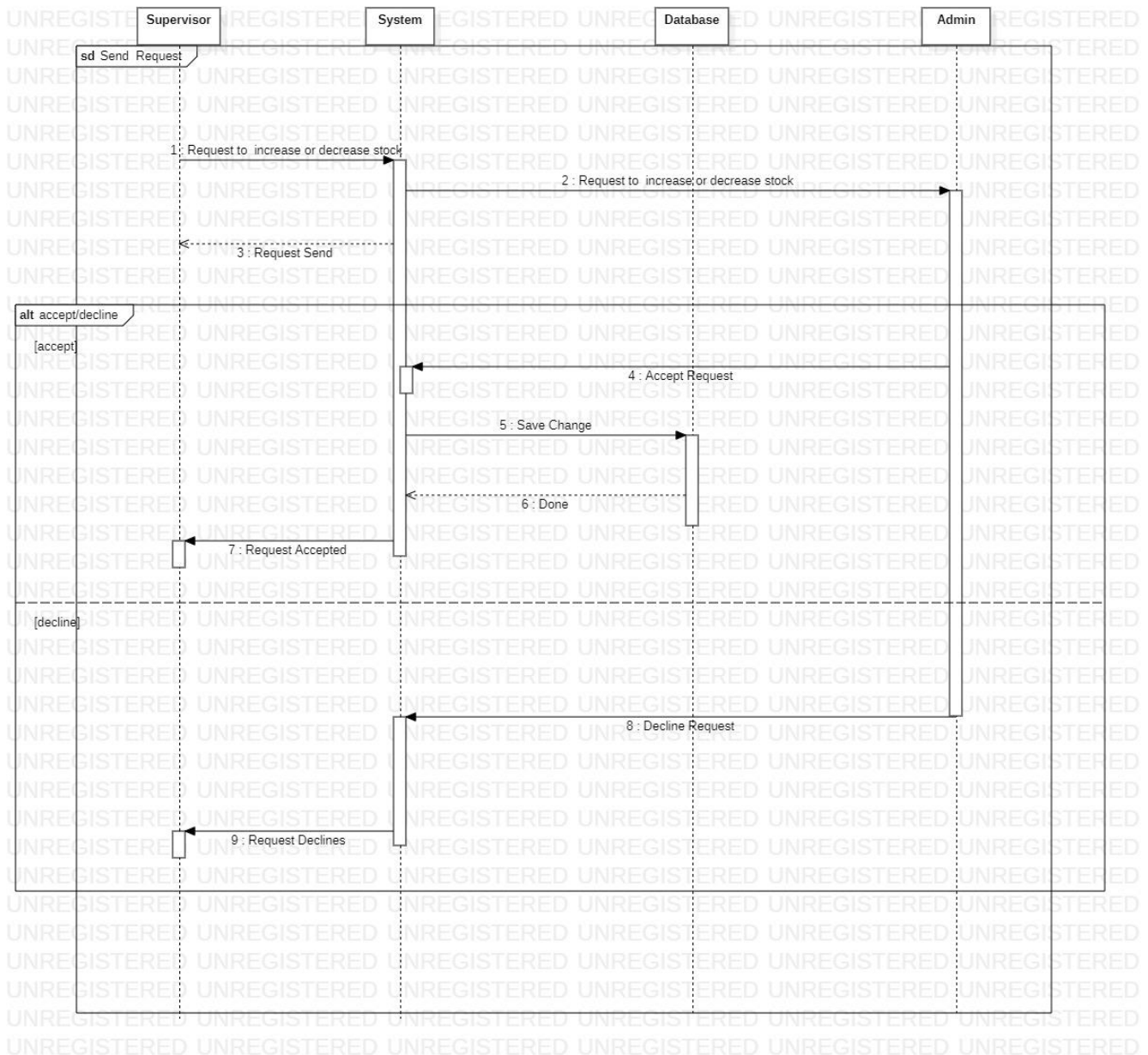


h) Add

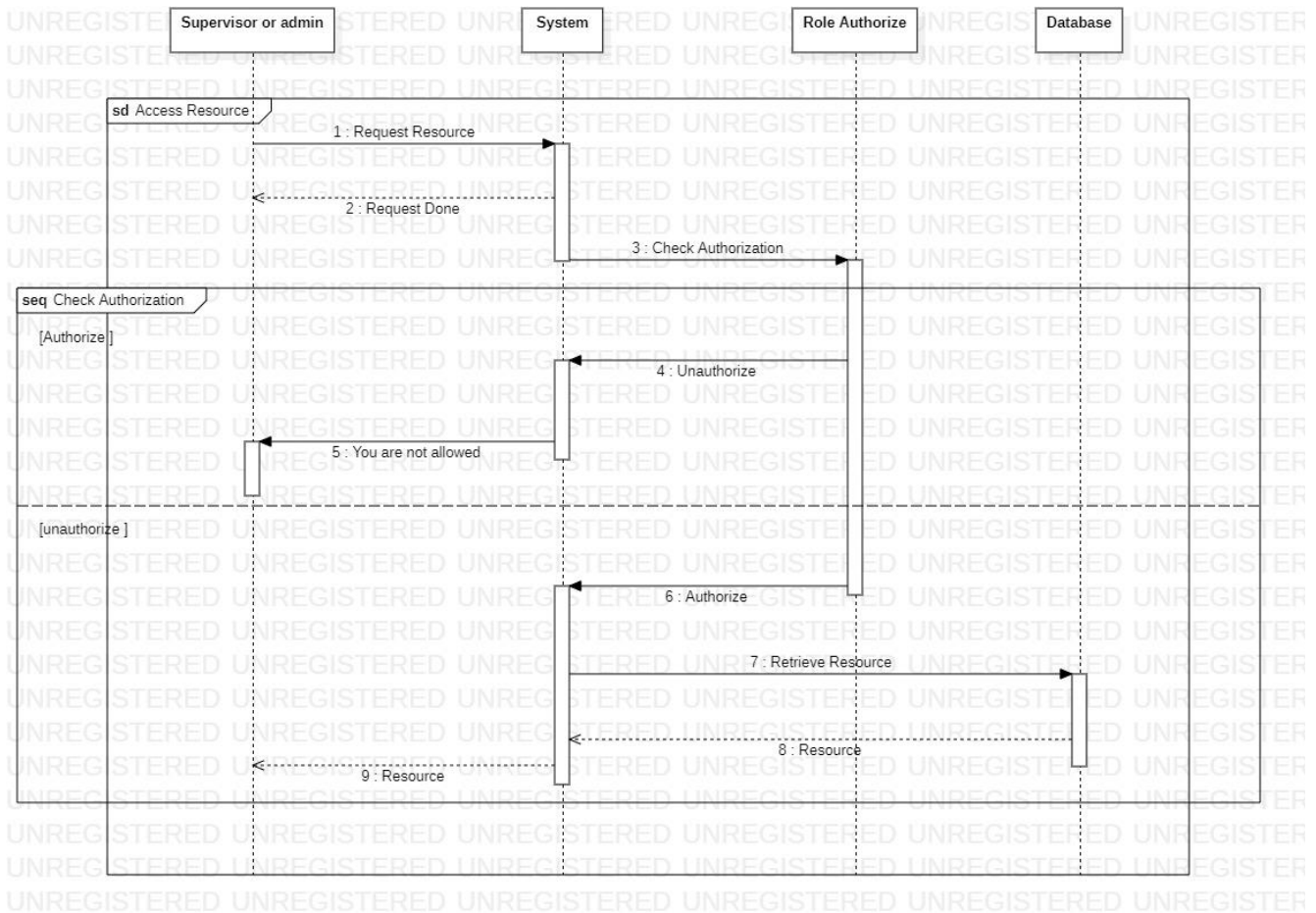


Sequence

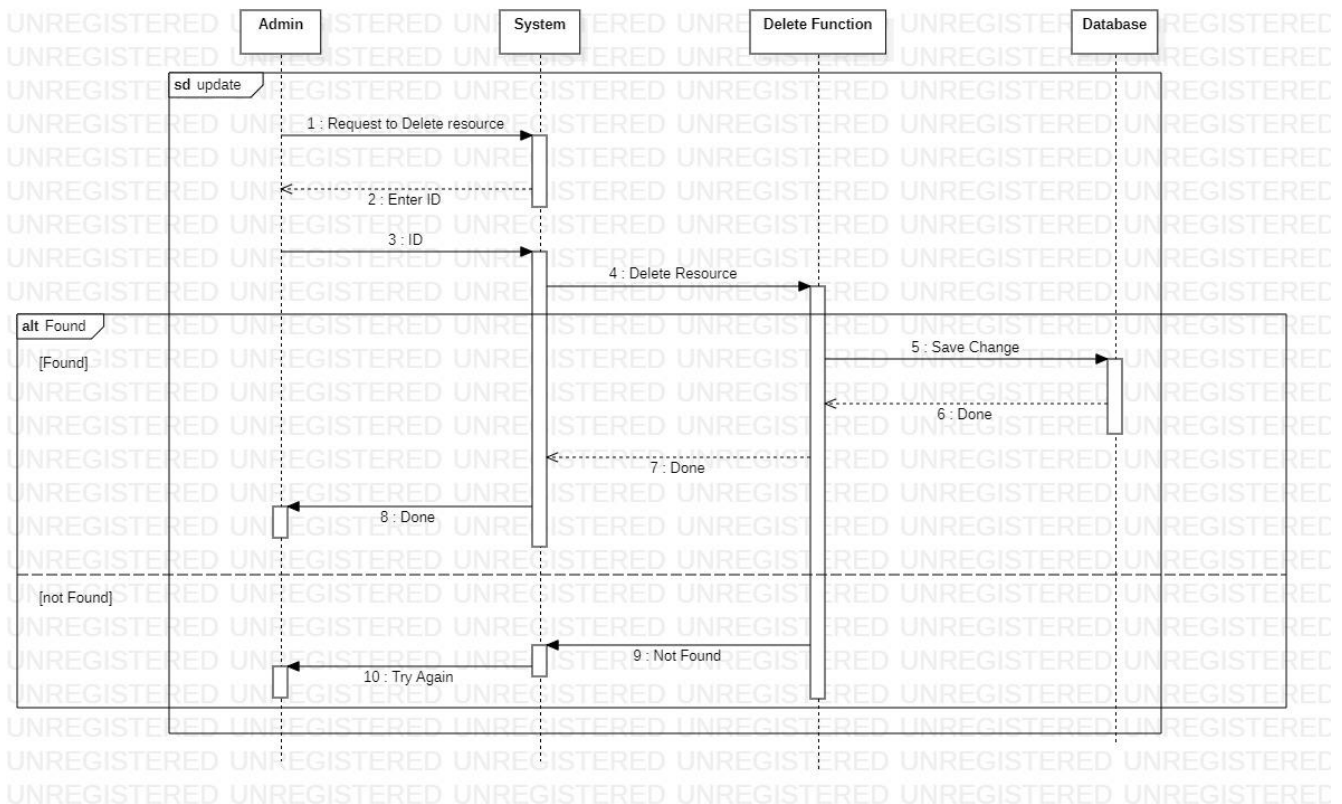
a) Send Request



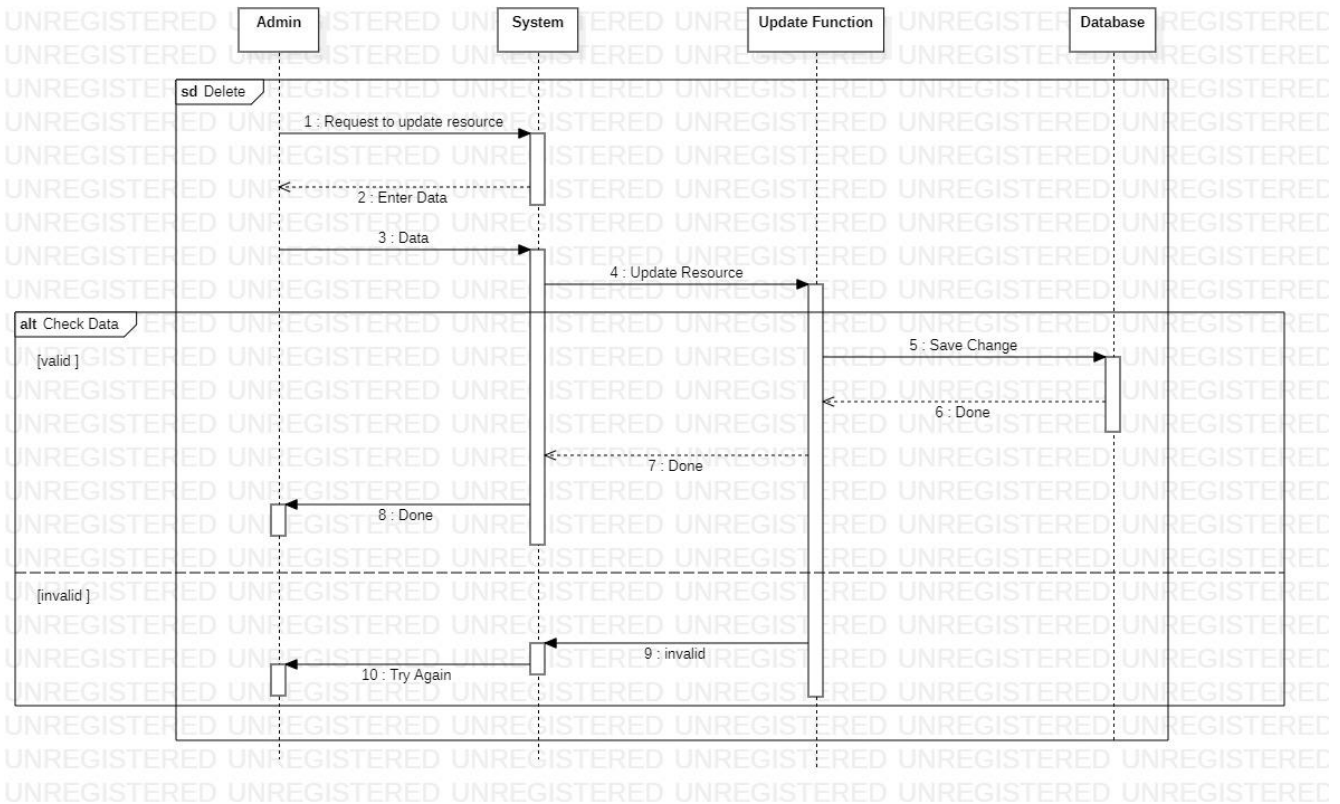
b) View Data



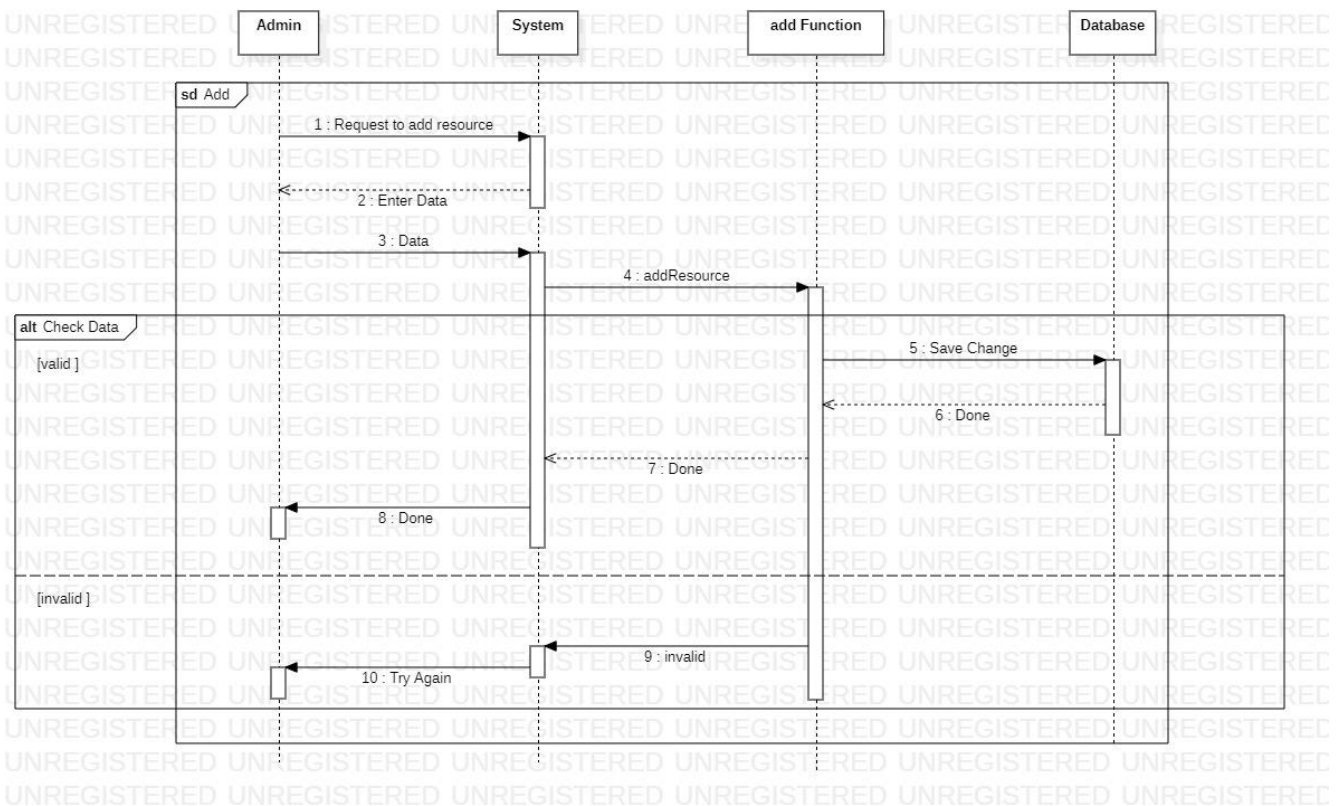
c) Update



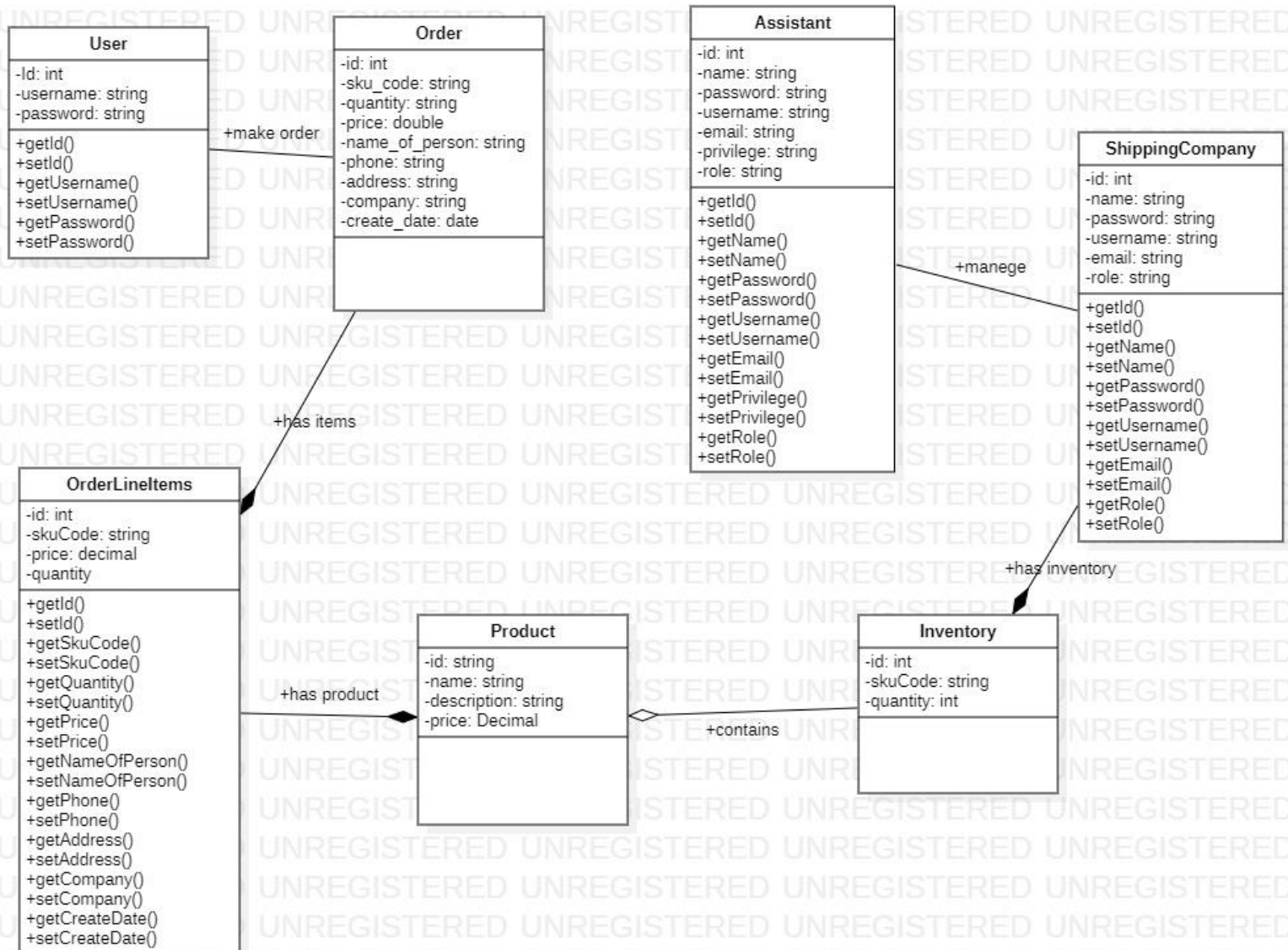
d) Delete



e) Add



Class



OCL**a) User**

-- Username should not be null or empty

context User

inv UsernameNotEmpty: username <> null and not username.isEmpty()

-- Password should not be null or empty

inv PasswordNotEmpty: password <> null and not password.isEmpty()

b) Order

-- SKU code should not be null or empty

context Order

inv SKUCodeNotEmpty: skuCode <> null and not skuCode.isEmpty()

-- Quantity should not be null or empty

inv QuantityNotEmpty: quantity <> null and not quantity.isEmpty()

-- Price should be greater than or equal to 0

inv PriceNonNegative: price >= 0

-- Name of person should not be null or empty

inv NameOfPersonNotEmpty: nameOfPerson <> null and not nameOfPerson.isEmpty()

-- Phone should not be null or empty

inv PhoneNotEmpty: phone <> null and not phone.isEmpty()

-- Address should not be null or empty

inv AddressNotEmpty: address <> null and not address.isEmpty()

-- Company should not be null or empty

inv CompanyNotEmpty: company <> null and not company.isEmpty()

-- Create Date should not be null

inv CreateDateNotNull: createDate <> null

c) Order Line Items

-- Ensures that the skuCode attribute is not null or empty

context OrderLineItems

inv NonEmptySKUCode: skuCode <> null and not skuCode.isEmpty()

-- Ensures that the price attribute is greater than 0

inv PositivePrice: price > 0

-- Ensures that the quantity attribute is greater than or equal to 0

inv PositiveQuantity: quantity >= 0

d) Product

-- Ensures that the name attribute is not null or empty

context Product

inv NonEmptyName: name <> null and not name.isEmpty()

-- Ensures that the description attribute is not null or empty

inv NonEmptyDescription: description <> null and not description.isEmpty()

-- Ensures that the price attribute is greater than 0

inv PositivePrice: price > 0

e) Inventory

-- Ensures that the skuCode attribute is not null or empty

context Inventory

inv NonEmptySKUCode: skuCode <> null and not skuCode.isEmpty()

-- Ensures that the quantity attribute is greater than or equal to 0

inv PositiveQuantity: quantity >= 0

f) Assistant

-- Each Assistant must have a unique identifier

context Assistant

inv UniqueId: Assistant.allInstances()->isUnique(id)

-- Name should not be null or empty

inv NameNotEmpty: name <> null and not name.isEmpty()

-- Password should not be null or empty

inv PasswordNotEmpty: password <> null and not password.isEmpty()

-- Username should not be null or empty

inv UsernameNotEmpty: username <> null and not username.isEmpty()

-- Email should not be null or empty

inv EmailNotEmpty: email <> null and not email.isEmpty()

-- Privilege should not be null or empty

inv PrivilegeNotEmpty: privilege <> null and not privilege.isEmpty()

-- Role should not be null or empty

inv RoleNotEmpty: Role <> null and not Role.isEmpty()

g) Company

-- Ensures each shipping company has a unique identifier

context ShippingCompany

inv UniqueId: ShippingCompany.allInstances()->isUnique(id)

-- Ensures the name attribute is not null or empty

inv NameNotEmpty: name <> null and not name.isEmpty()

-- Ensures the password attribute is not null or empty

inv PasswordNotEmpty: password <> null and not password.isEmpty()

-- Ensures the username attribute is not null or empty

inv UsernameNotEmpty: username <> null and not username.isEmpty()

-- Ensures the email attribute is not null or empty

inv EmailNotEmpty: email <> null and not email.isEmpty()

-- Ensures the Role attribute is not null or empty

inv RoleNotEmpty: Role <> null and not Role.isEmpty()

ERD

