

**BSc (Hons) in Information Technology**

**Specializing in Software Engineering**

**Year 3 - 2021**

**SE3070 – Case Studies in Software Engineering**

## **Procurement for Construction Industry**

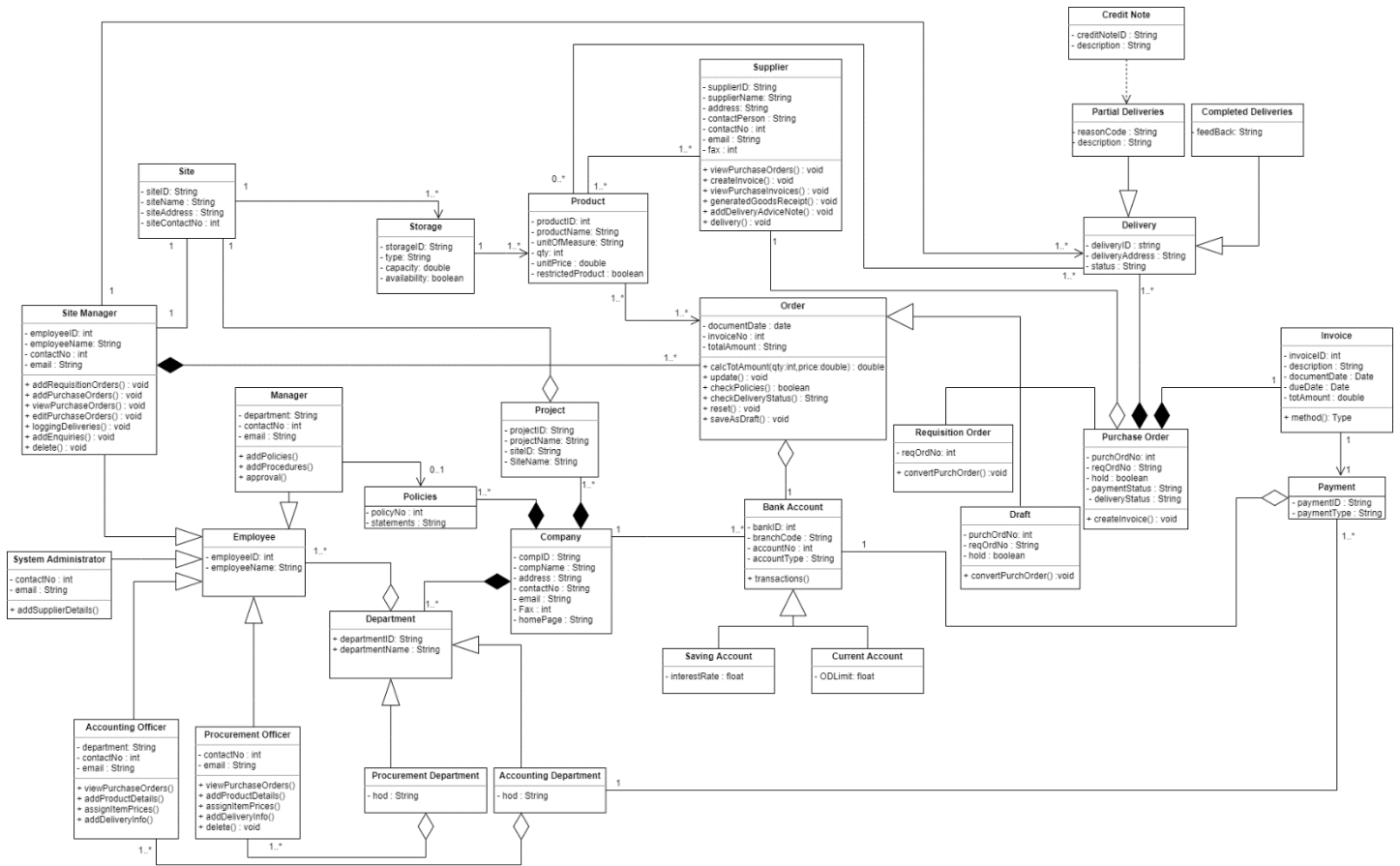
<b>Student ID</b>	<b>Name</b>
IT19039732	T. Lorence
IT19118314	Senadeera S.A.P.R.
IT19040172	Perera T.W.I.V.
IT19035086	Amarathunga A.A.H.S.B.

## Assumptions

1. We assumed that one site is relevant to one project and one project has one site.
2. We assumed that when a supplier delivers an incomplete order, they will only bring the delivery advice note for only the products they delivered, and the rest will be in another delivery advice note.
3. We assumed that the supplier could deliver the ordered products at any time without declining the order.
4. We assumed that a single purchase order has only one supplier.
5. We assume that the system administrator will be adding and maintaining the supplier details.
6. We assume that the system administrator will be maintaining the company information.

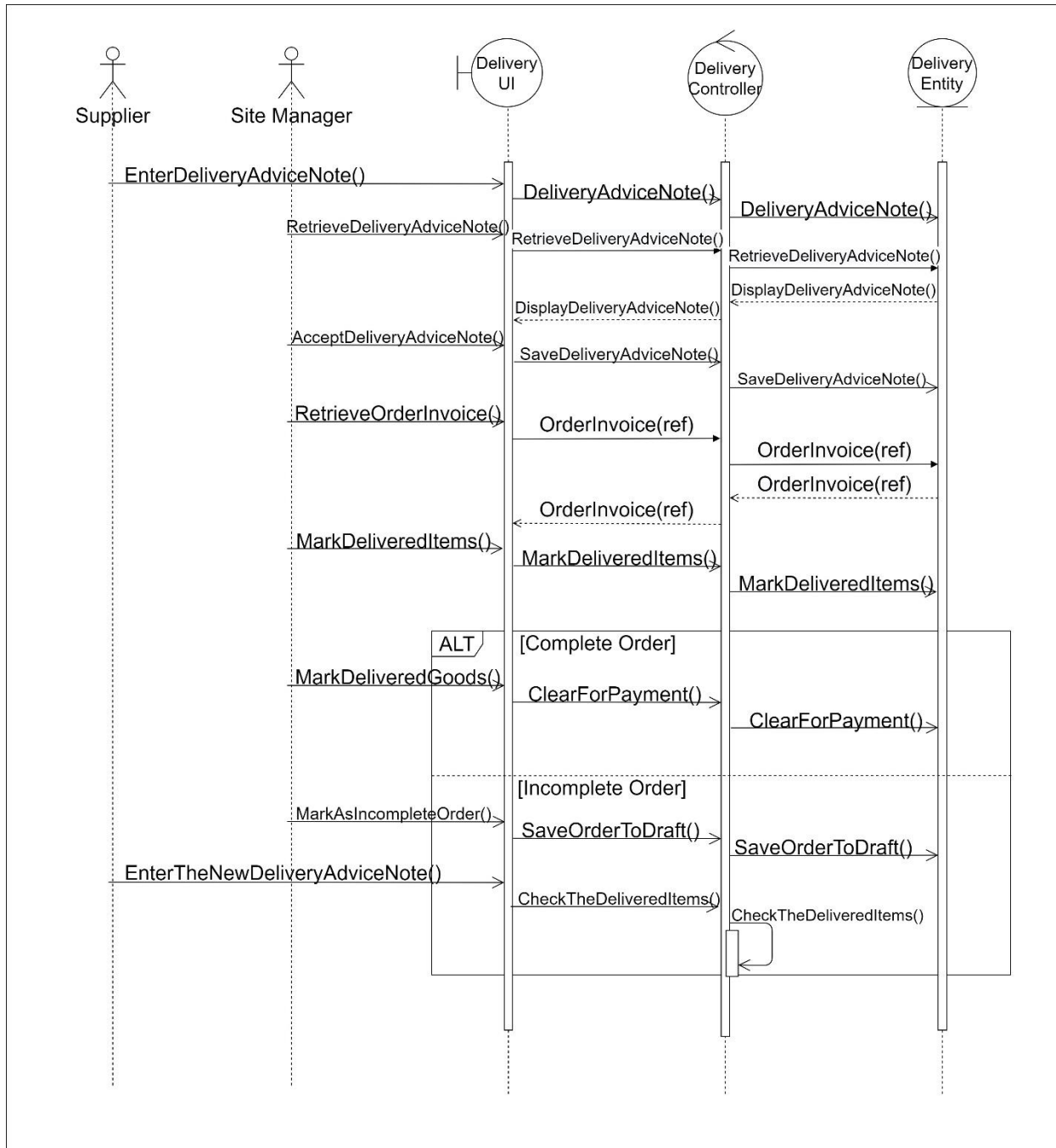


## Class Diagram

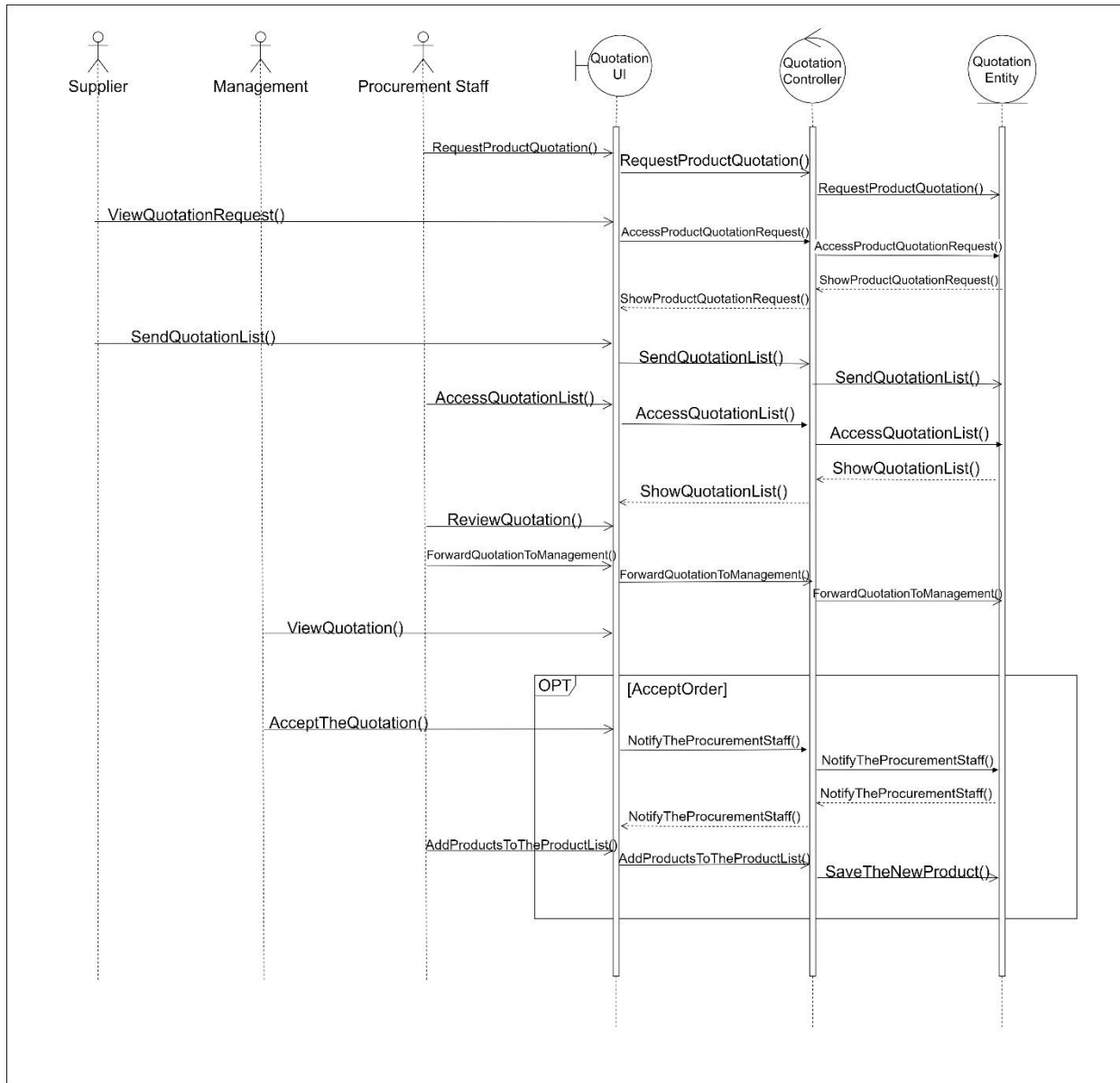


Class Diagram





Sequence Diagram 2



Sequence Diagram 3

## UI Design

### Storyboards

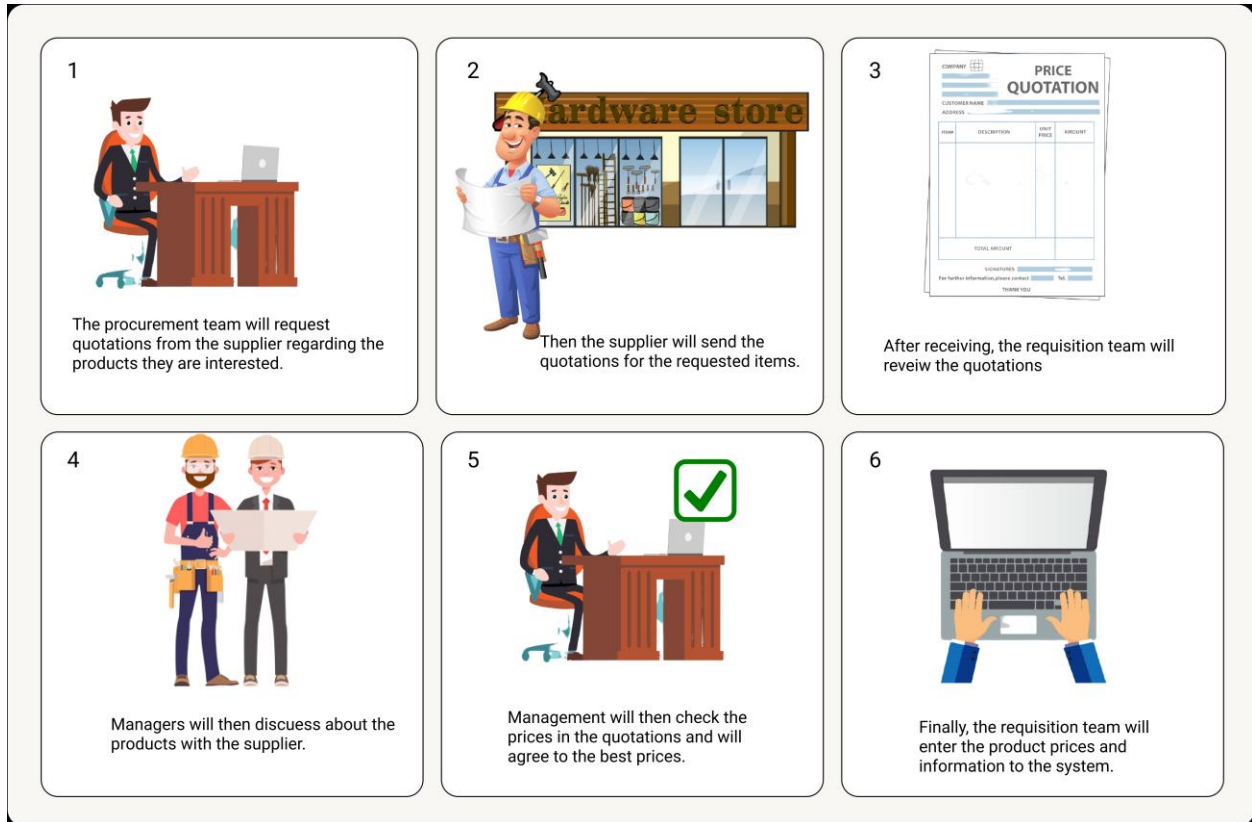


Storyboard 1

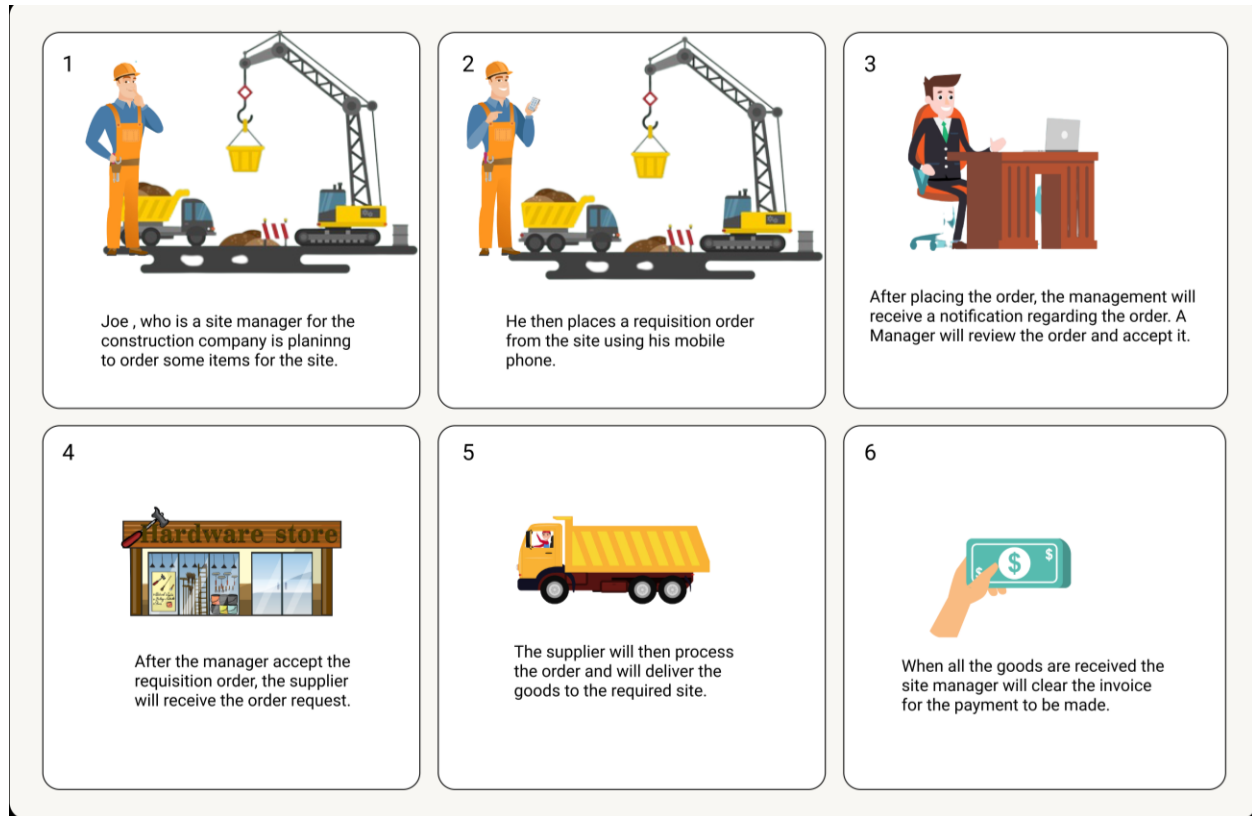




Storyboard 2

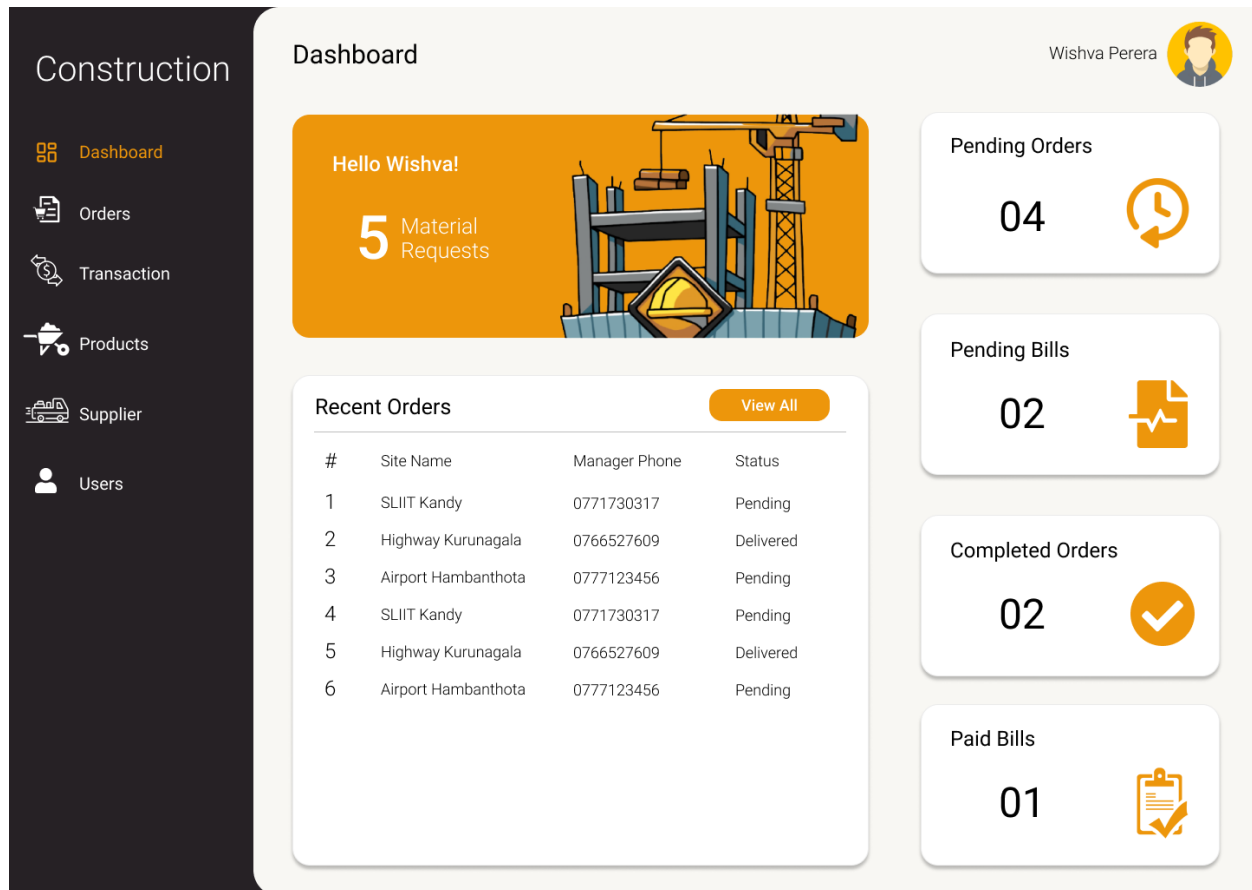


Storyboard 3




Storyboard 4


## Wireframes



Wireframe 1


## Construction

 Dashboard

 **Orders**

 Transaction

 Products

 Supplier

 Users

## Orders

Wishva Perera











### Pending Orders

Search 

Placed

Declined

Approved

#	Site Name	Site Manager	Order Items	Delivery date	Back Acc.	Total		
1	SLIIT Kandy	Tirone - 0779480288	Sand 1cube, Cement 10, 10mm icon rod 20	12/08/2021	SLIIT Development Fund	Rs.55,400		
2	SLIIT Kandy	Tirone - 0779480288	Sand 1cube, Cement 10, 10mm icon rod 20	12/08/2021	SLIIT Development Fund	Rs.55,400		
3	SLIIT Kandy	Tirone - 0779480288	Sand 1cube, Cement 10, 10mm icon rod 20	12/08/2021	SLIIT Development Fund	Rs.55,400		
4	SLIIT Kandy	Tirone - 0779480288	Sand 1cube, Cement 10, 10mm icon rod 20	12/08/2021	SLIIT Development Fund	Rs.55,400		



Wireframe 2

## Construction

 Dashboard

 Orders

 Transaction

 Products

 Supplier


 Users

## Products

Wishva Perera



### Available Products

Search 


Add New Product

#		Product	Description	Size	Each Price	Supplier	
1		Cement	Holcim cement	50kg	Rs.950	Holcim (pvt) ltd	
2		Cement	Holcim cement	50kg	Rs.950	Holcim (pvt) ltd	
3		Cement	Holcim cement	50kg	Rs.950	Holcim (pvt) ltd	



Wireframe 3

## Construction

 Dashboard

 Orders

 Transaction

 Products

 Supplier

 Users

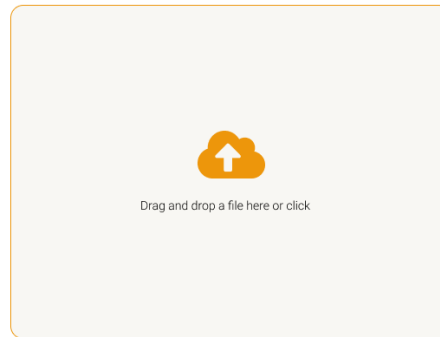
## Products

Wishva Perera



### Add Products

[View All Products](#)



Product Name :

Product Description :

Product Size :

Product Price :


Product Supplier :

[Reset](#)

[Add Product](#)

Wireframe 4

## Construction

 Dashboard

 Orders

 Transaction

 Products

 Supplier

 Users

## Supplier

Wishva Perera



### Add Supplier

[View All Suppliers](#)

Supplier Name :

Supplier Address :

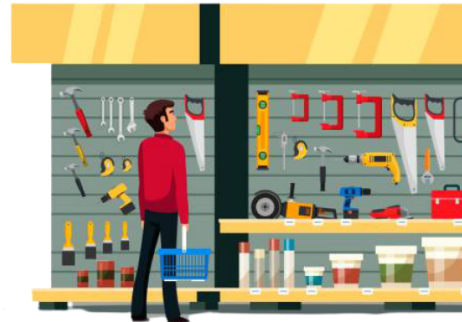
Contact Name :

Phone :

Email :

[Reset](#)


[Add Supplier](#)





Wireframe 5




## Construction

 Dashboard

 Orders

 Transaction

 Products

 Supplier

 Users

## Supplier

Wishva Perera



### Edit Supplier

[View All Suppliers](#)

Supplier Name :

Supplier Address :

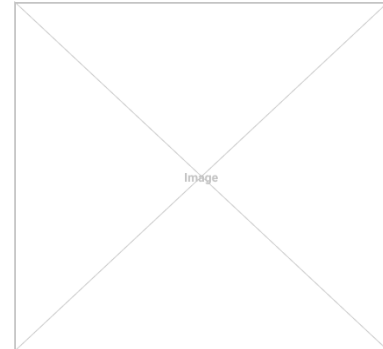
Contact Name :

Phone :


Email :

[Reset](#)

[Update Supplier](#)



Wireframe 6



Construction

Purchase Requisition Order

Item :

- Select -

Quantity

Price

Description

Add Another

item

Site Name :

- Select -

Site Address :

Supplier :

- Select -

Delivery Date :

mm / dd / yyyy

Total :

Bank Acc. :

- Select -


Notes :

Reset

Draft

Add Order

Wireframe 7

 Construction

Delivery Tracking

# 25

#1 Holcim Cement 50kg


Expected quantity : 20 Qty

Recieved quantity :

#2 Rought Sand

Expected quantity : 01 Qty

Recieved quantity :



#3 Potty Bag 20kg

Expected quantity : 15 Qty

Recieved quantity :

\*Enter received item quantity and click update

Reset

Update

Wireframe 8



## Construction

### Product List



Name : Holcim cement  
Price : Rs.950.00  
Size : 50kg  
Description : Holcim cement from  
incee  
Supplier : Holcim (pvt) ltd



Name : Holcim cement  
Price : Rs.950.00  
Size : 50kg  
Description : Holcim cement from  
incee  
Supplier : Holcim (pvt) ltd



Name : Holcim cement  
Price : Rs.950.00  
Size : 50kg  
Description : Holcim cement from  
incee  
Supplier : Holcim (pvt) ltd



Name : Holcim cement  
Price : Rs.950.00  
Size : 50kg  
Description : Holcim cement from  
incee  
Supplier : Holcim (pvt) ltd

Wireframe 9

## Member Contribution

Student	Contribution
IT19039732 - T. Lorence	100% Contribution
IT19118314 - Senadeera S.A.P.R.	100% Contribution
IT19040172 - Perera T.W.I.V.	100% Contribution
IT19035086 - Amarathunga A.A.H.S.B.	100% Contribution