Topic : BuildTech Construction Management System
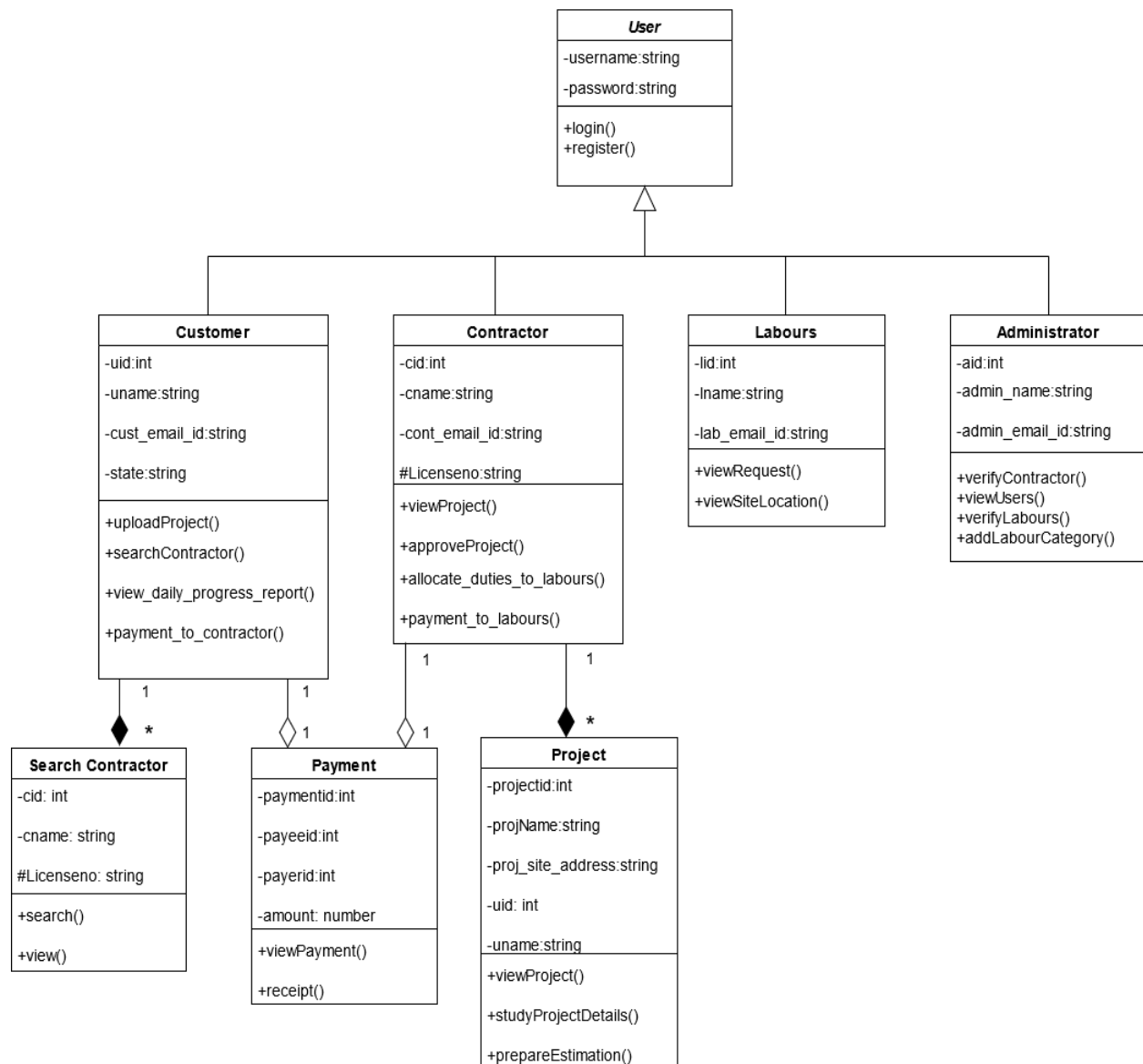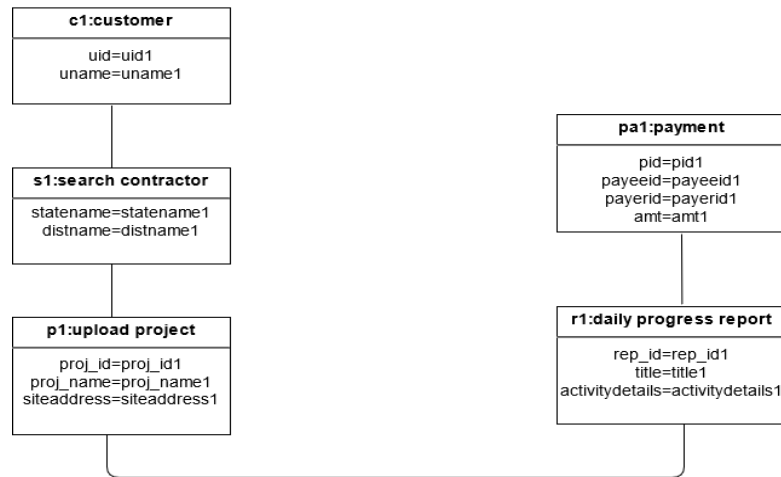**Date : 16/03/2021**
Guide : Ms. Meera Rose Mathew

UML DIAGRAMS

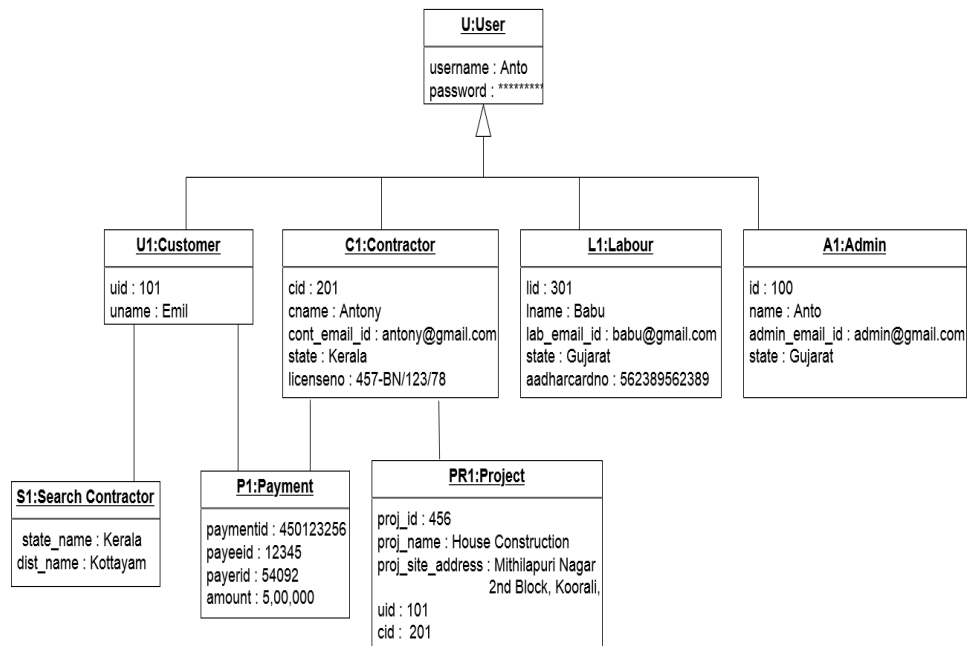## 1. STRUCTURAL DIAGRAMS
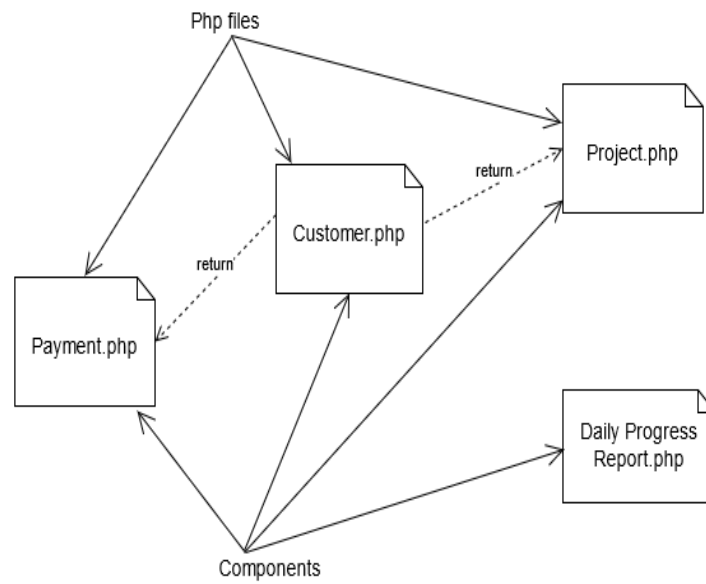
Class Diagram for BuildTech Construction Management System

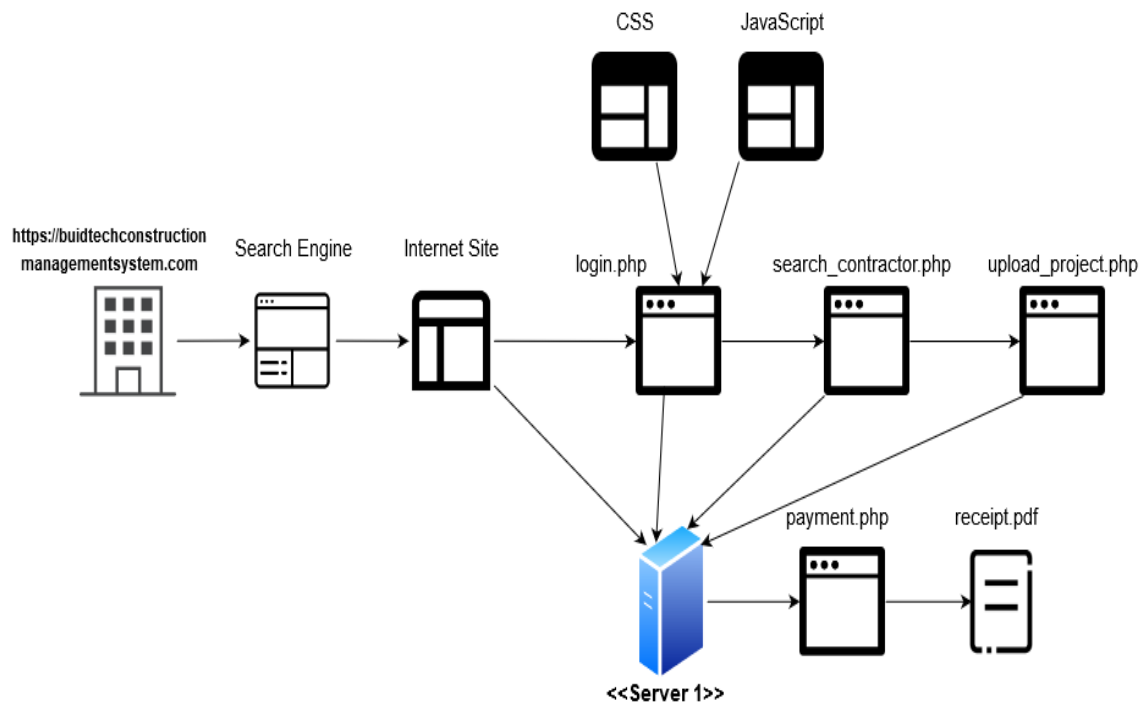# Object Diagram for BuildTech Construction Management System

c1:customer

uid=uid1
uname=uname1

s1:search contractor

statename=statename1
distname=distname1

p1:upload project

proj_id=proj_id1
proj_name=proj_name1
siteaddress=siteaddress1

pa1:payment

pid=pid1
payeeid=payeeid1
payerid=payerid1
amt=amt1

r1:daily progress report

rep_id=rep_id1
title=title1
activitydetails=activitydetails1

Object Diagram for BuildTech Construction Management System

U:User

username : Anto
password : *********

U1:Customer

uid : 101
uname : Emil

C1:Contractor

cid : 201
cname : Antony
cont_email_id : antony@gmail.com
state : Kerala
licenseno : 457-BN/123/78

L1:Labour

lid : 301
lname : Babu
lab_email_id : babu@gmail.com
state : Gujarat
aadharcardno : 562389562389

A1:Admin

id : 100
name : Anto
admin_email_id : admin@gmail.com
state : Gujarat

S1:Search Contractor

state_name : Kerala
dist_name : Kottayam

P1:Payment

paymentid : 450123256
payeeid : 12345
payerid : 54092
amount : 5,00,000

PR1:Project

proj_id : 456
proj_name : House Construction
proj_site_address : Mithilapuri Nagar
                2nd Block, Koorali,
uid : 101
cid : 201

Component Diagram for BuildTech Construction Management System

Php files

Project.php

return

Customer.php

return

Payment.php

Daily Progress Report.php

Components

Component Diagram for BuildTech Construction Management System

CSS   JavaScript

https://buidtechconstruction
managementsystem.com

Search Engine

Internet Site

login.php

search_contractor.php

upload_project.php

payment.php

receipt.pdf

<<Server 1>>

Deployment Diagram for BuildTech Construction Management System
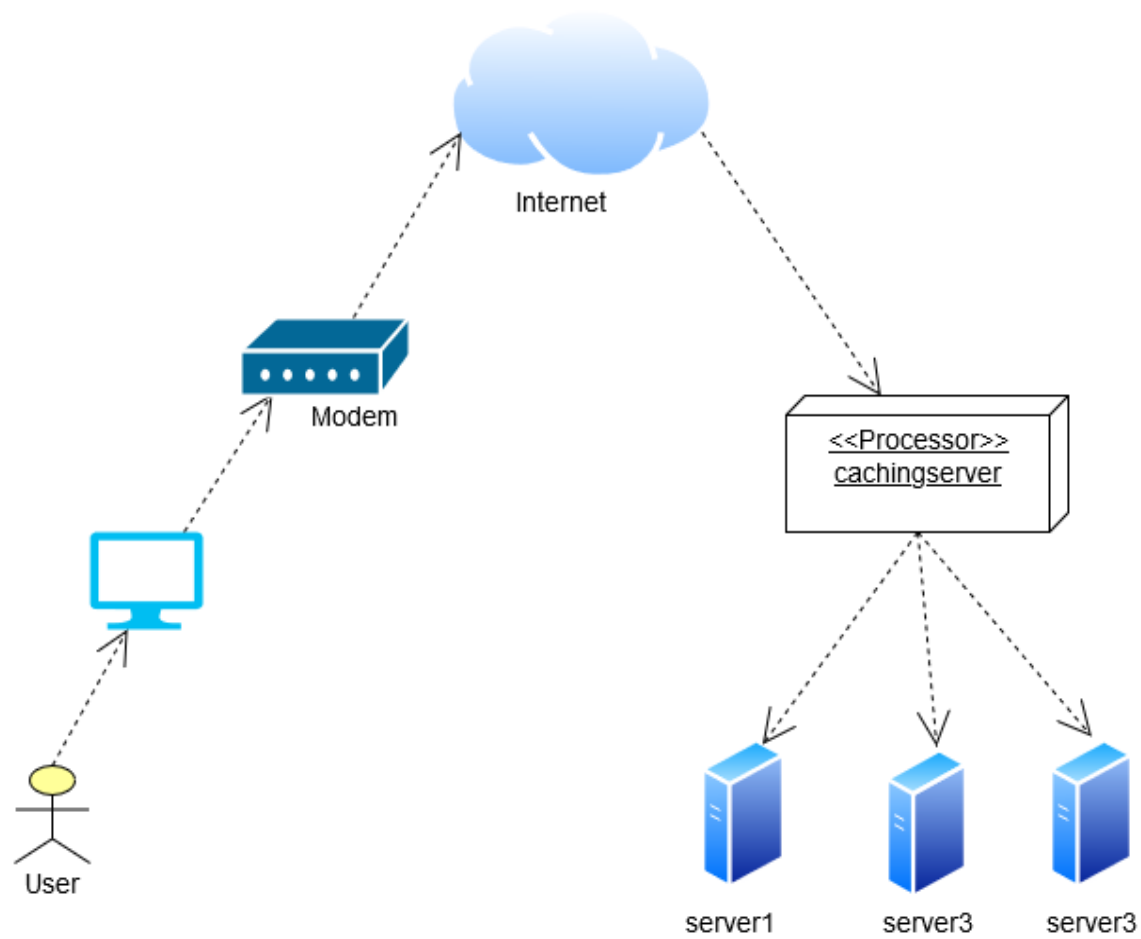
2. BEHAVIORAL DIAGRAMS

Usecase Diagram

BuildTech Construction Management System

Customer

- Upload project
- View project and approve project
- Prepare daily progress report
- View daily progress report
- Payment to contractor
- Search contractor
- Allocate duties to labours
- Payment to labours
- View worksite location
- View contractor request
- View users
- Verify contractors
- Add labour category

Contractor

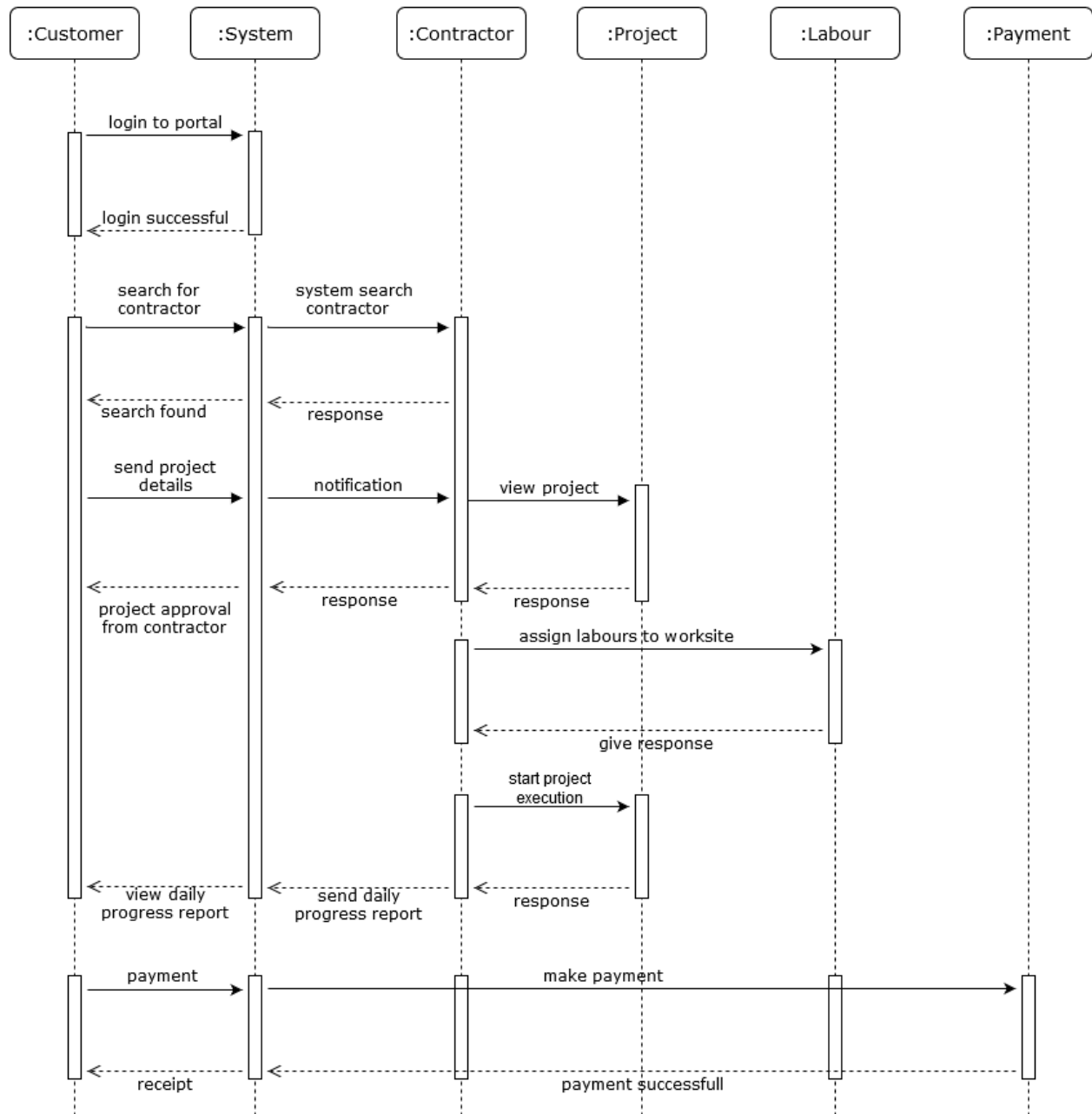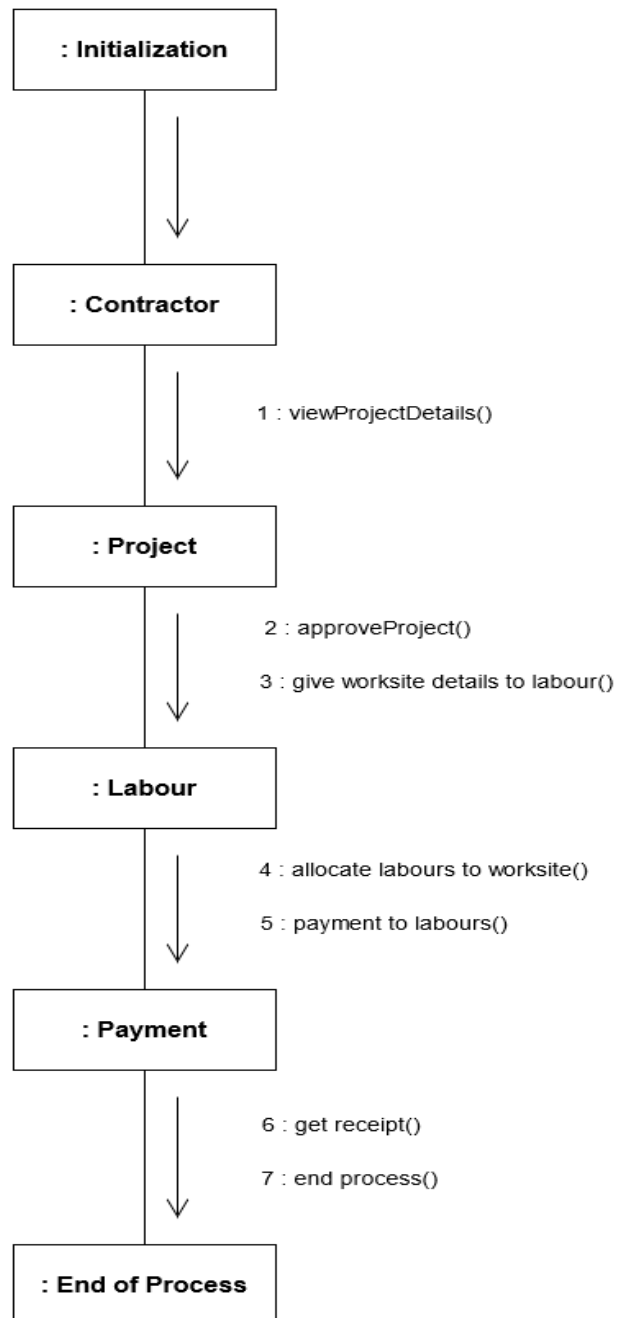Labour

Admin

3. INTEGRATION DIAGRAMS

Sequence Diagram for BuidTech Construction System

Collaboration Diagram for BuildTech Construction Management System

: Initialization

: Contractor

1 : viewProjectDetails()

: Project

2 : approveProject()

3 : give worksite details to labour()

: Labour

4 : allocate labours to worksite()

5 : payment to labours()

: Payment

6 : get receipt()

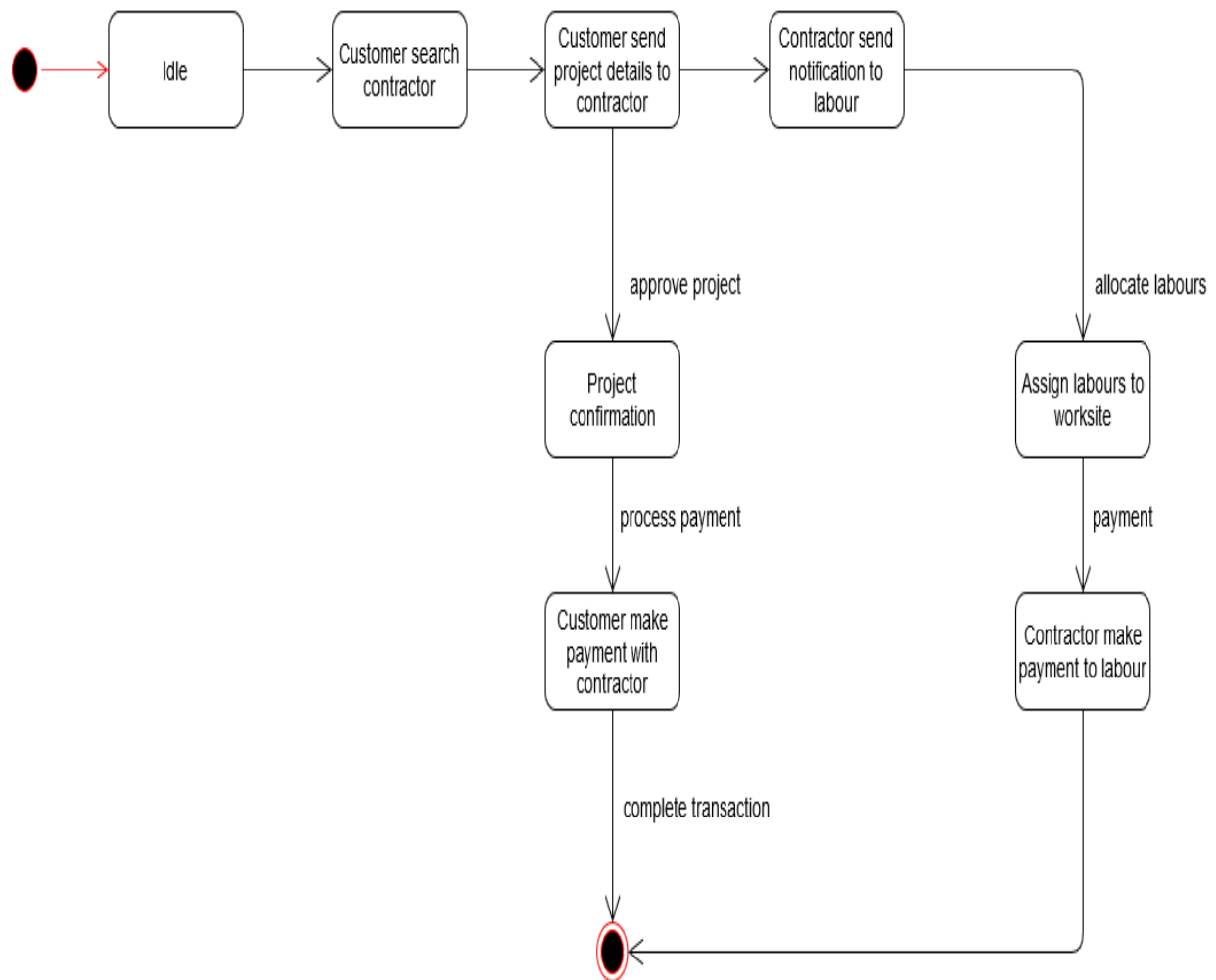7 : end process()

: End of Process

4. STATECHART DIAGRAM

Statechart Diagram for BuildTech Construction Management System

5. ACTIVITY DIAGRAM

Activity Diagram for BuildTech Construction Management System

client login to the system → client search contractor → client sends project details to contractor → contractor send notification to labour

[check if labours are available]

[check if project requirements meet]

no

no

yes

yes

assign labours to worksite

confirm project → client make payment with contractor → contractor make payment to labours