VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum -590014, Karnataka.

LAB REPORT
on

OBJECT ORIENTED MODELLING AND DESIGN

Submitted by

PREETHAM H (1BM19CS120)

in partial fulfillment for the award of the degree of
BACHELOR OF ENGINEERING
in
COMPUTER SCIENCE AND ENGINEERING

B.M.S. COLLEGE OF ENGINEERING
(Autonomous Institution under VTU)
BENGALURU-560019
May-2022 to July-2022

B. M. S. College of Engineering,

Bull Temple Road, Bangalore 560019

(Affiliated To Visvesvaraya Technological University, Belgaum)

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that the Lab work entitled "**OBJECT ORIENTED MODELLING AND DESIGN** " Carried out by **PREETHAM H (1BM19CS125),** who is bonafide student of **B. M. S. College of Engineering.** It is in partial fulfillment for the award of **Bachelor of Engineering in Computer Science and Engineering** of the Visvesvaraya Technological University, Belgaum during the year 2022. The Lab report has been approved as it satisfies the academic requirements in respect of **Object oriented modelling and design-(20CS6PCOMD)** work prescribed for the said degree.

Name of the Lab-In charge
Designation
Department of CSE
BMSCE, Bengaluru

Dr. Nandhini Vineeth
Assistant Professor
Department of CSE
BMSCE, Bengaluru

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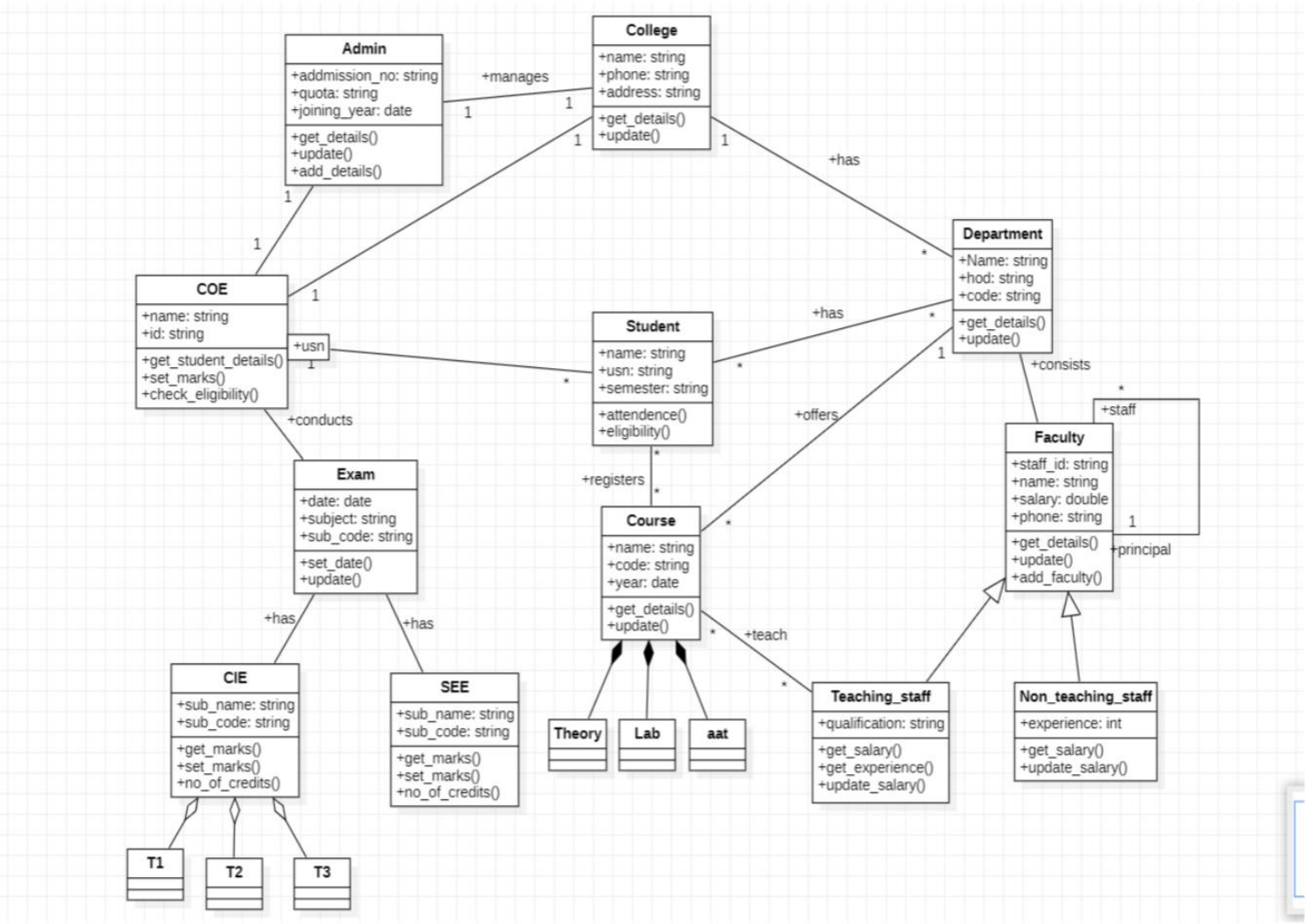
Course Outcome

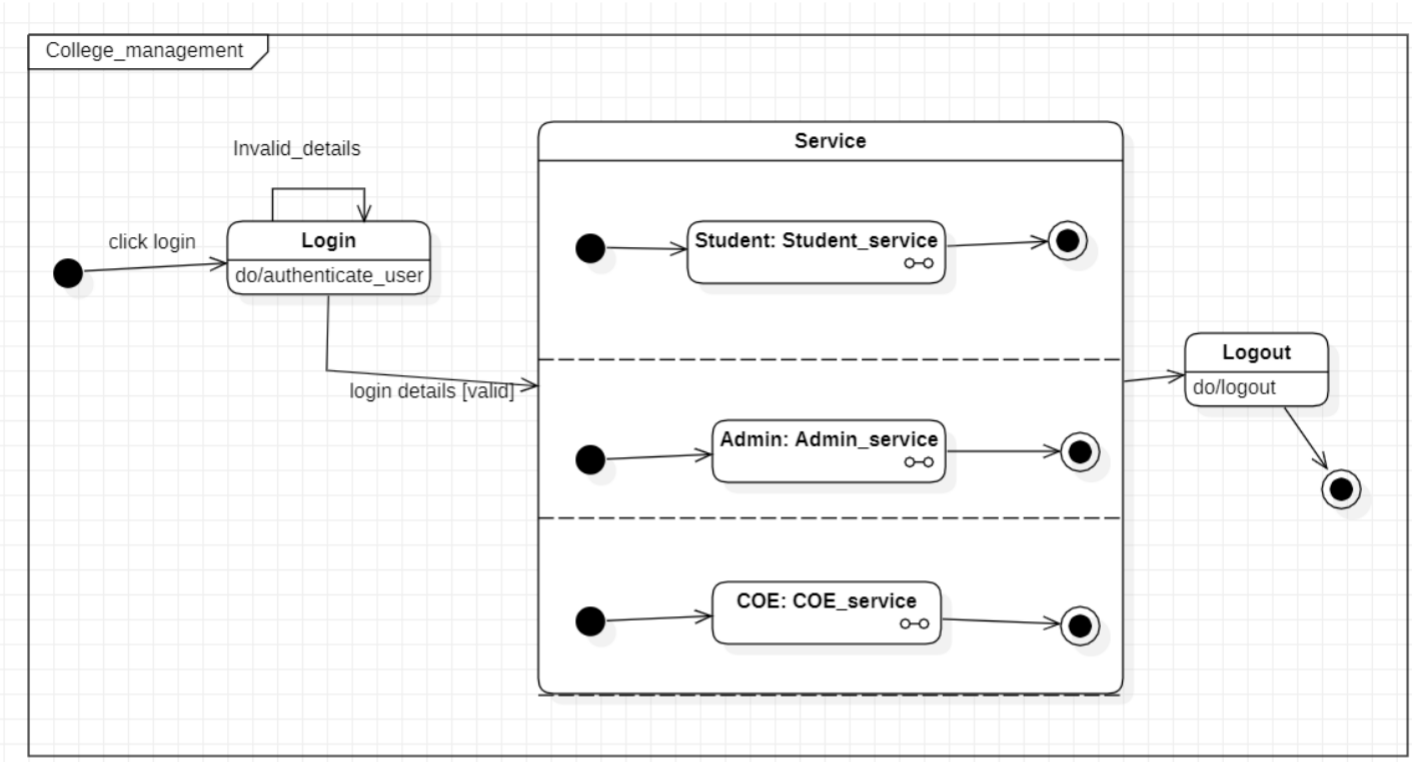
CO 1	Ability to apply the knowledge of class, State & Interaction Modelling using Unified Modeling Language to solve a given problem.
CO 2	Ability to analyze a System for a given requirement using Unified Modeling language
CO 3	Ability to design a given system using high level strategy.
CO 4	Ability to conduct practical experiment to solve a given problem using Unified Modeling language.

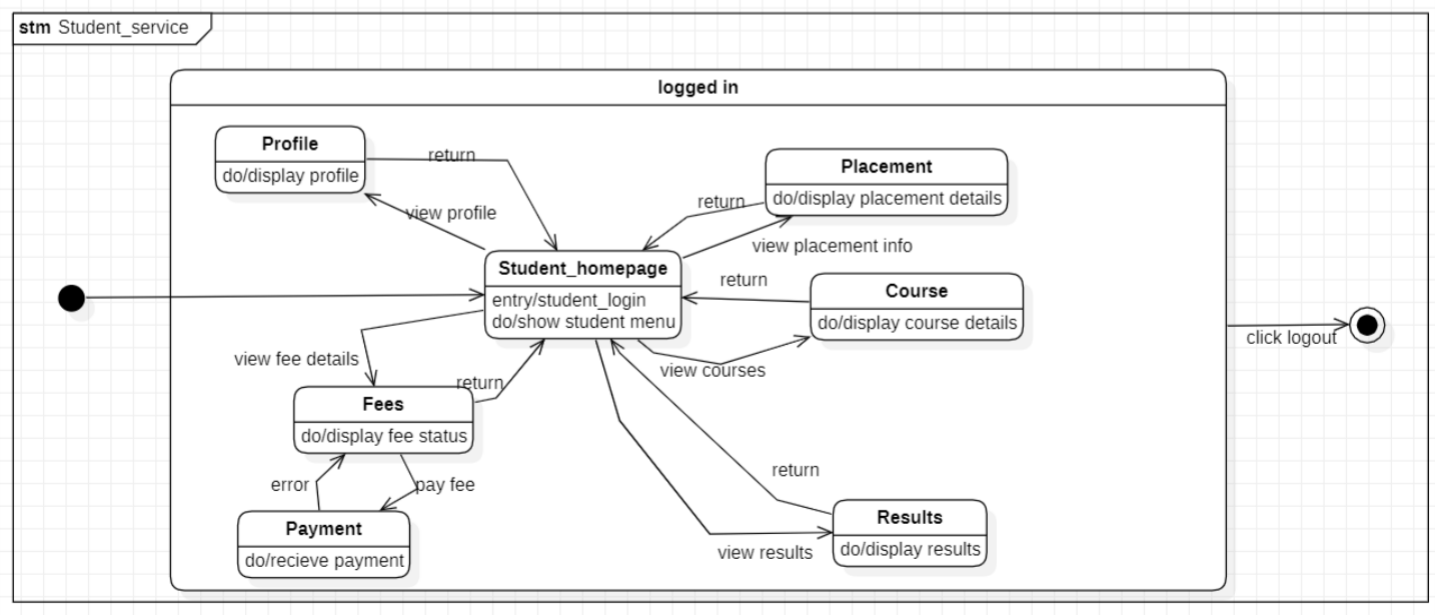
LAB 1

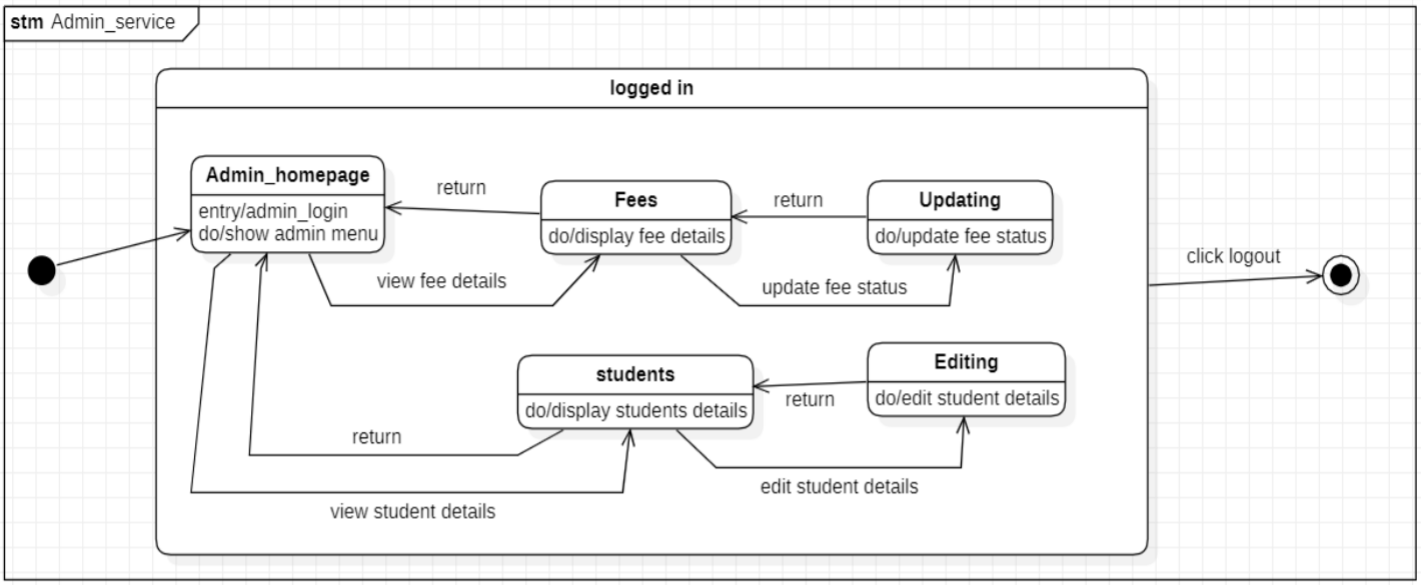
Class Diagram:

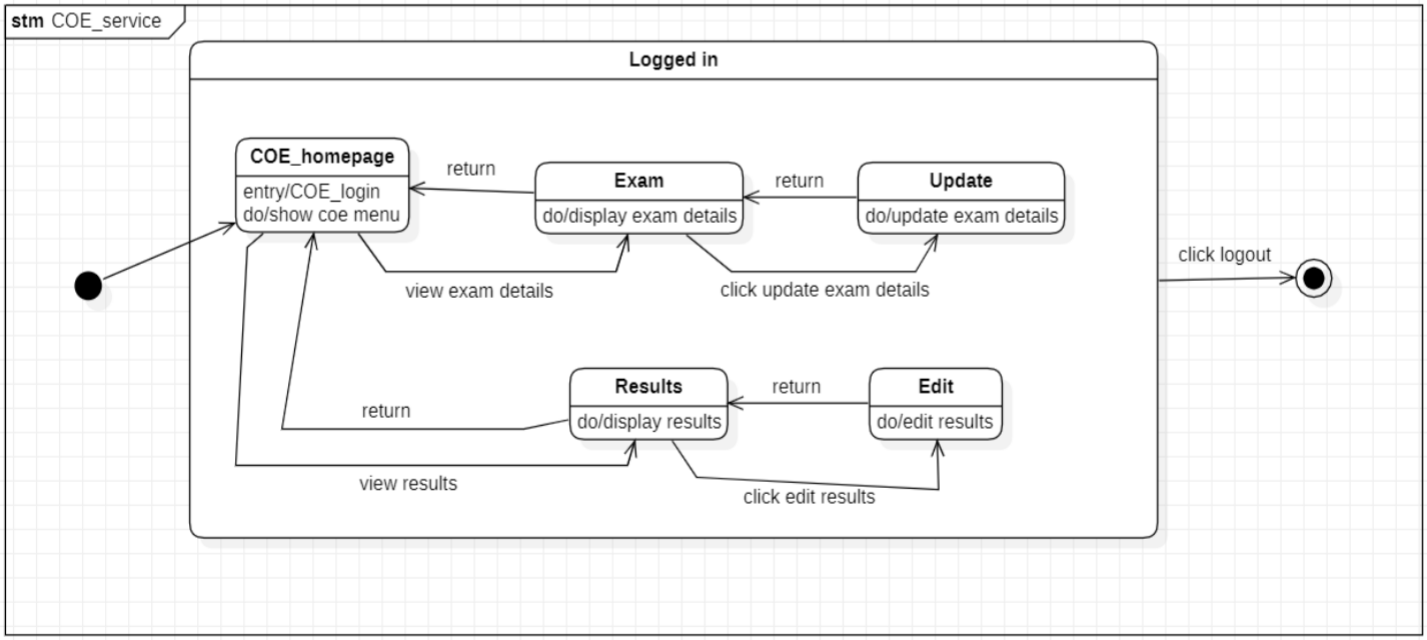


State diagram:



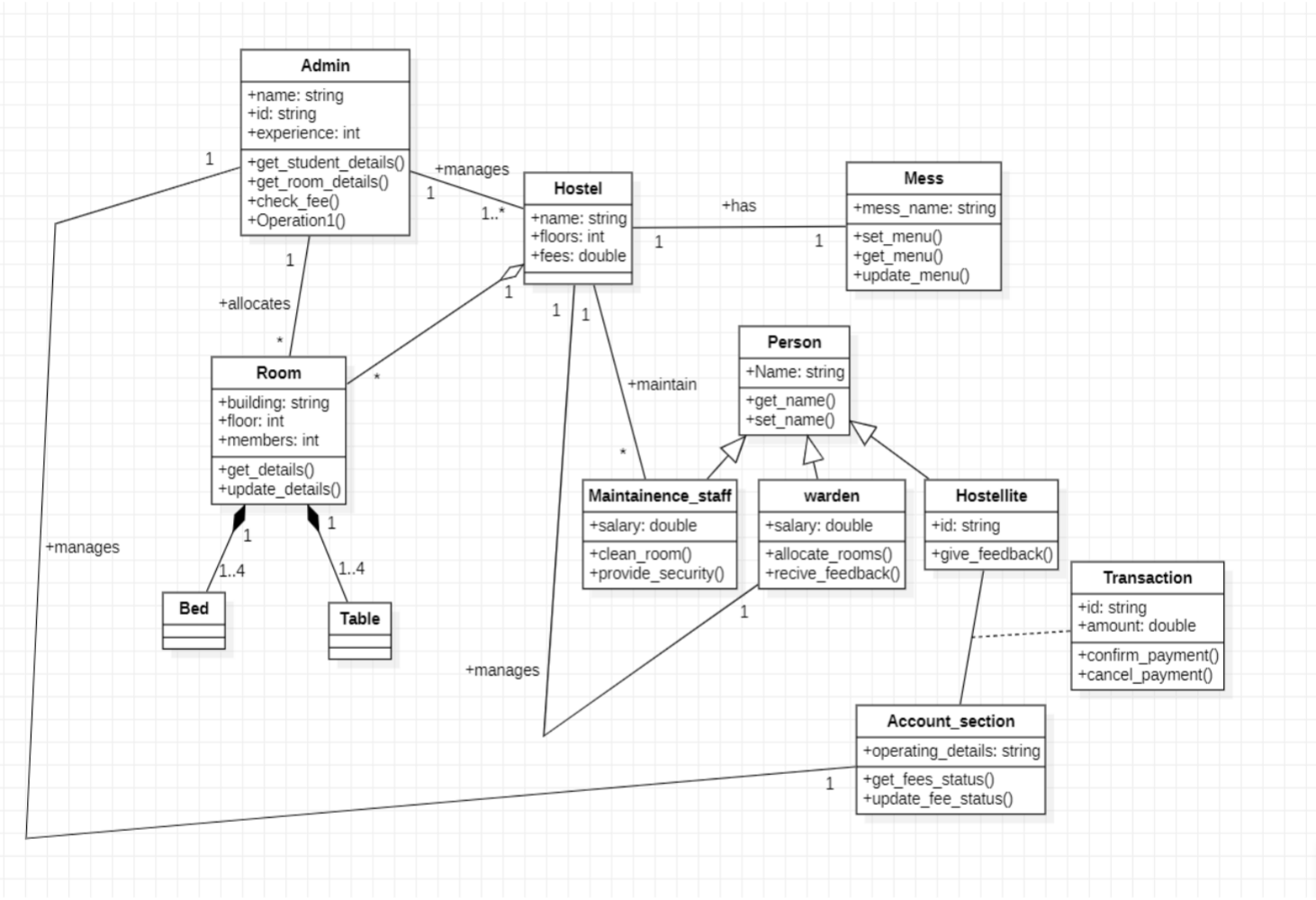



stm Admin_service
logged in
Admin_homepage
entry/admin_login
do/show admin menu
return
Fees
do/display fee details
return
Updating
do/update fee status
click logout
view fee details
update fee status
students
do/display students details
return
Editing
do/edit student details
return
edit student details
view student details

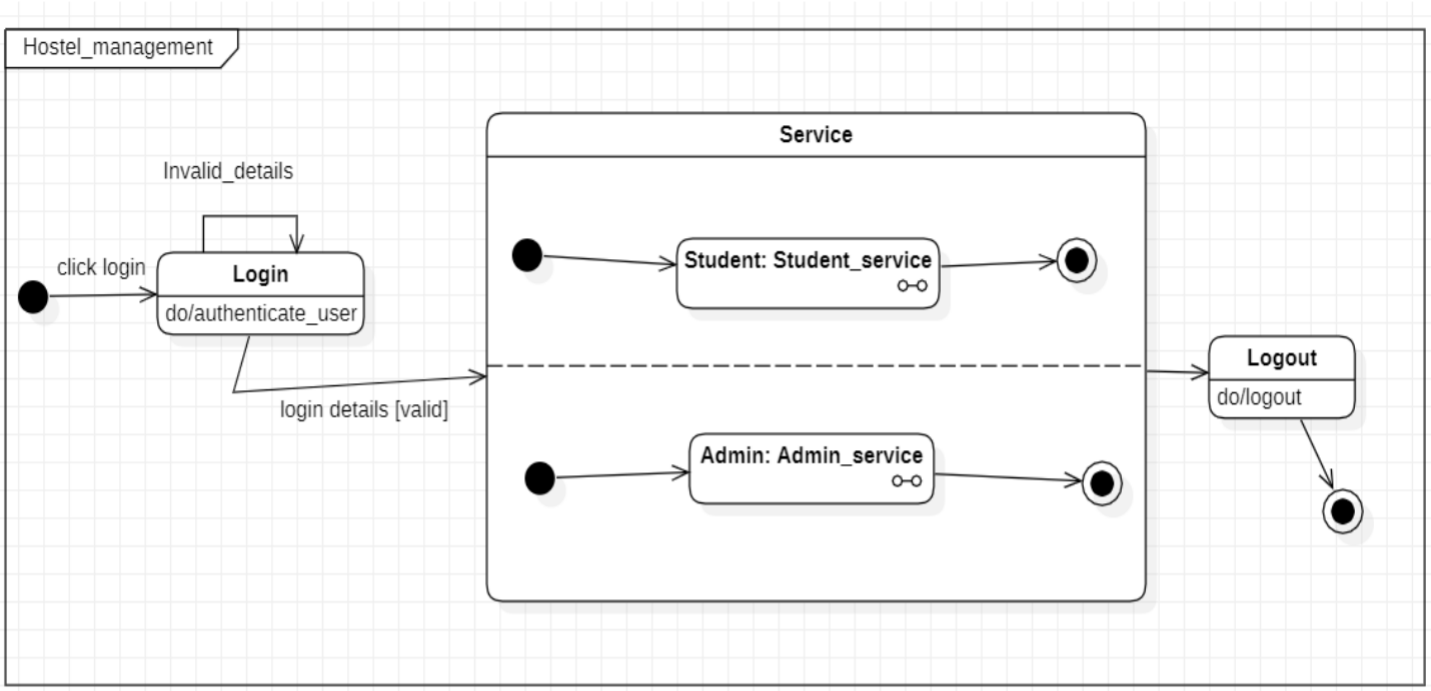

stm COE_service
Logged in
COE_homepage
entry/COE_login
do/show coe menu
return
Exam
do/display exam details
return
Update
do/update exam details
click logout
view exam details
click update exam details
Results
do/display results
return
Edit
do/edit results
return
view results
click edit results

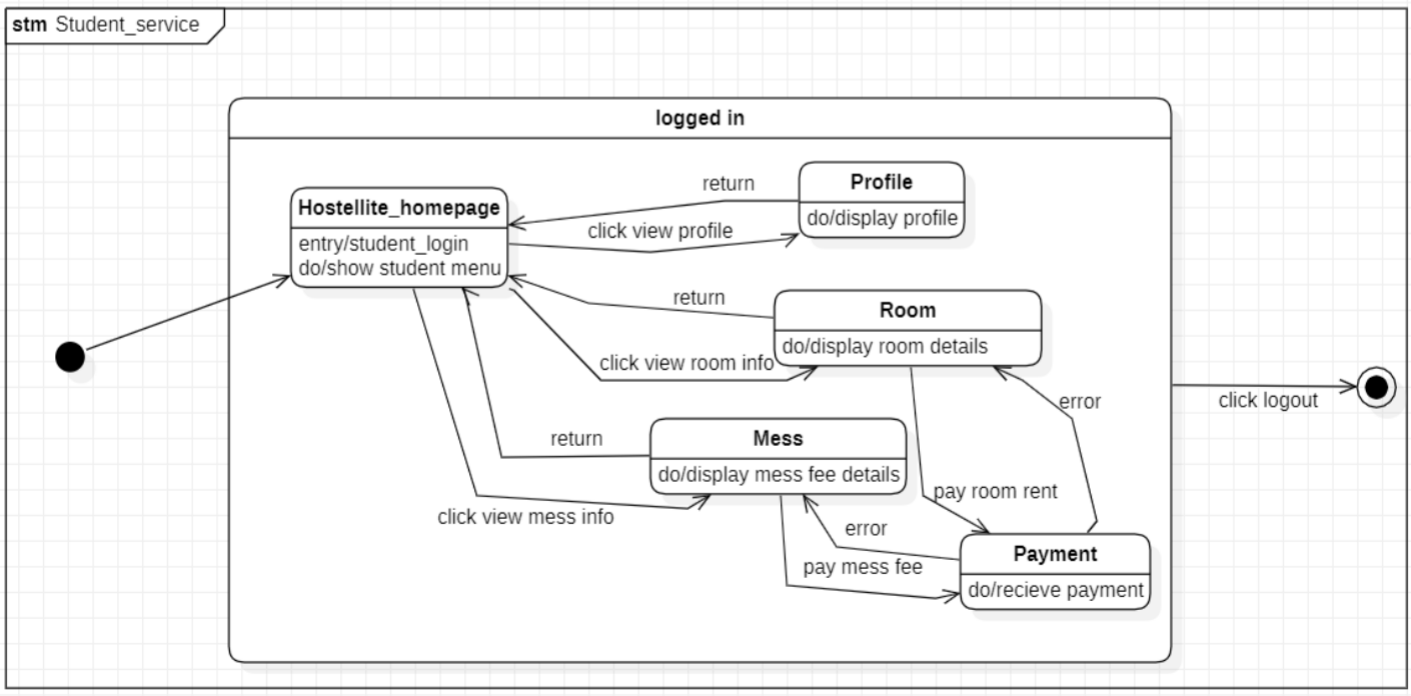
LAB 2

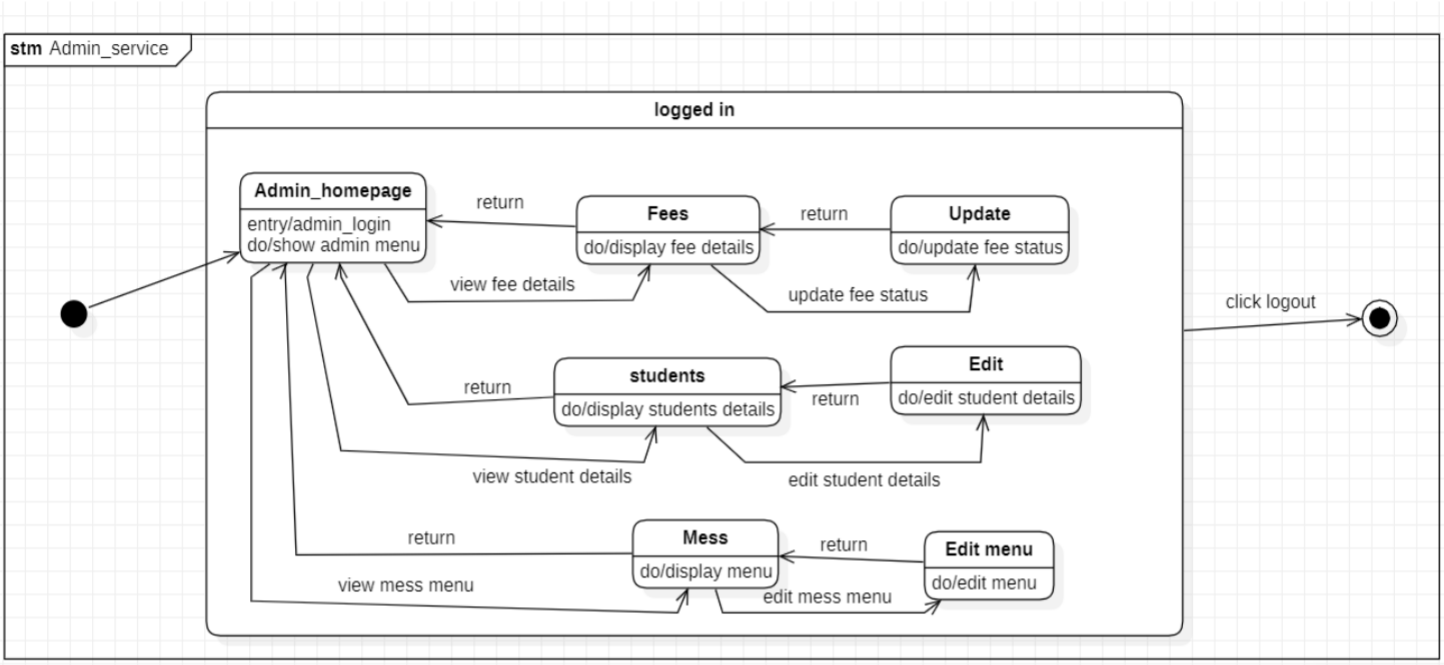
Class diagram:



State diagram:






stm Admin_service
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do/show admin menu
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do/display fee details
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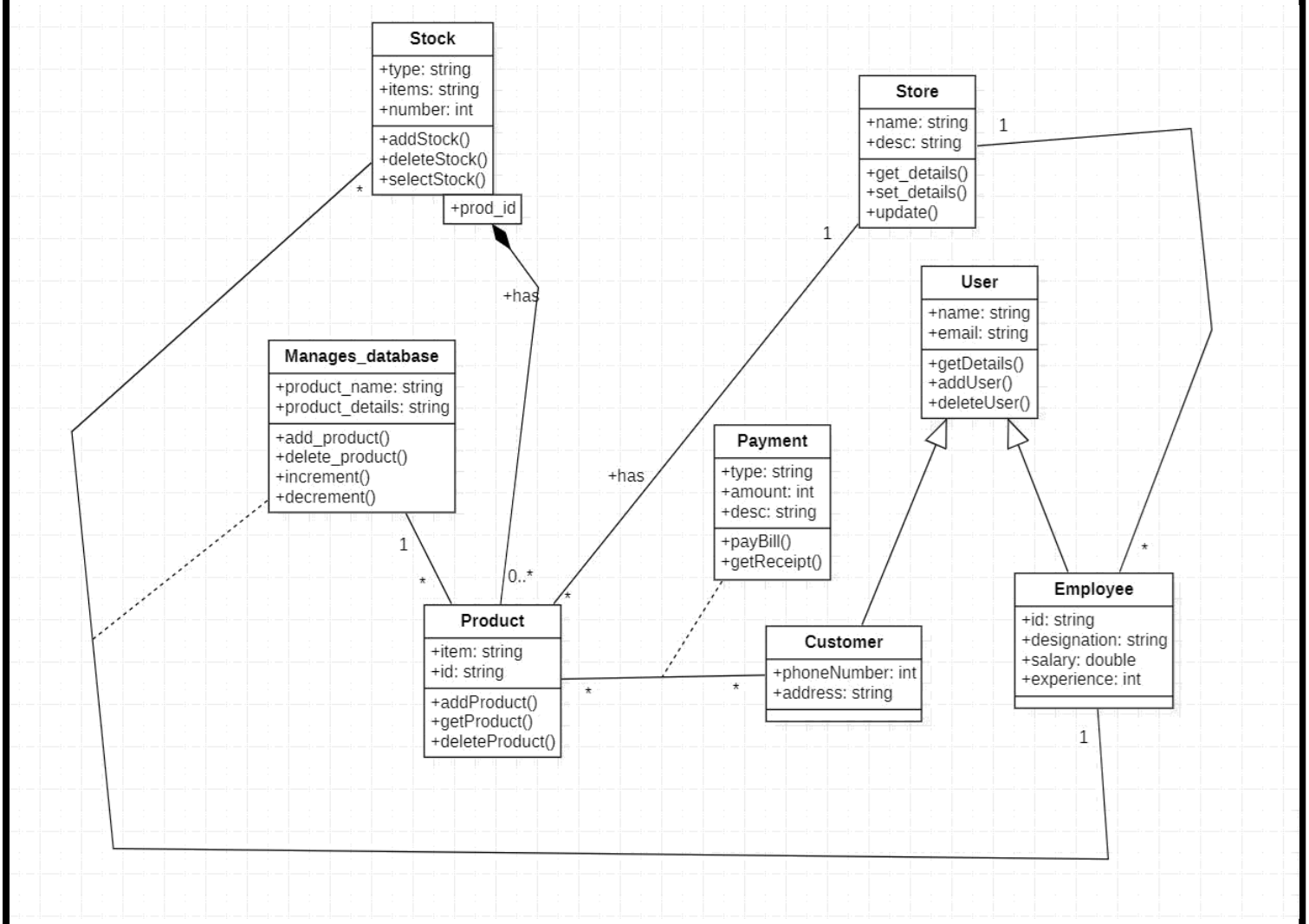
Update
do/update fee status
view fee details
update fee status
click logout
return
students
do/display students details
return
Edit
do/edit student details
view student details
edit student details
return
Mess
do/display menu
return
Edit menu
do/edit menu
view mess menu
edit mess menu

LAB 3

Class diagram:



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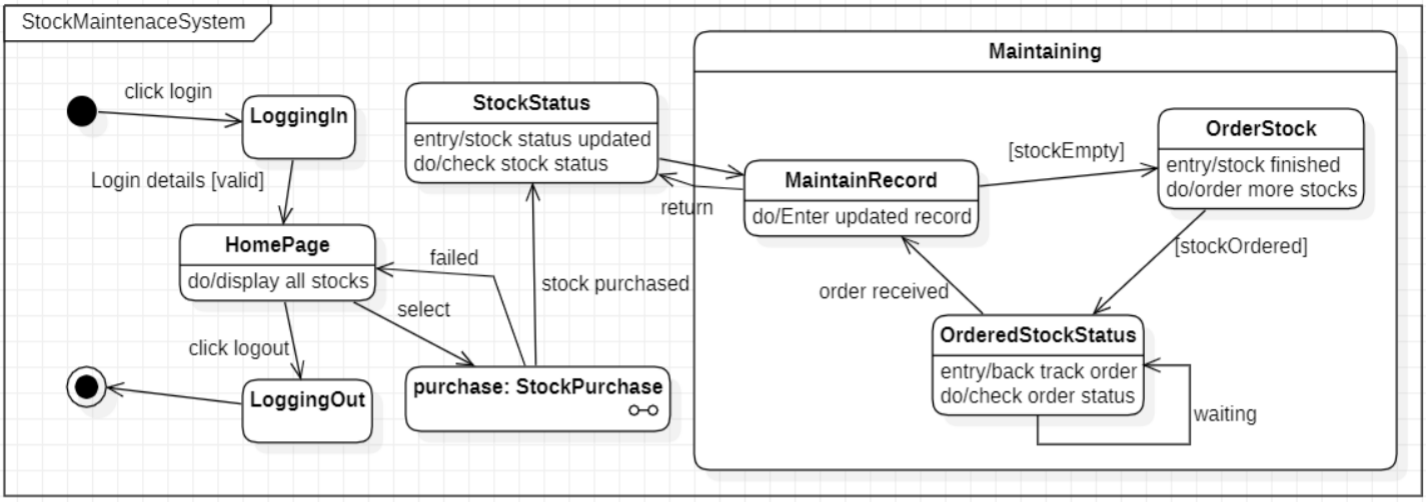
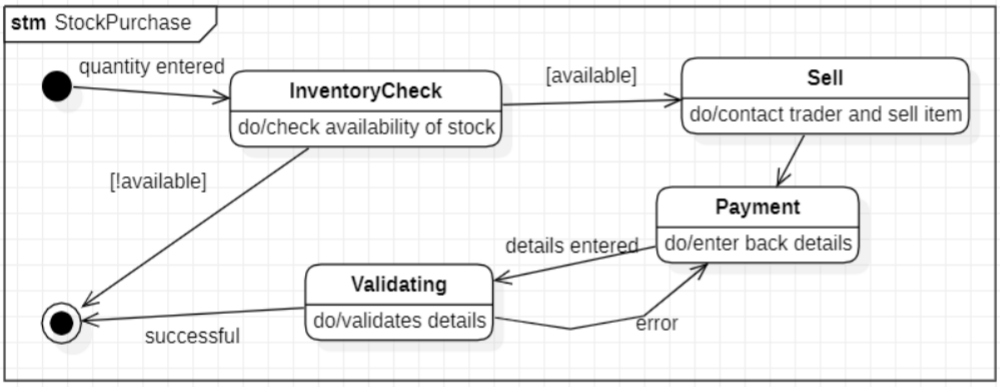
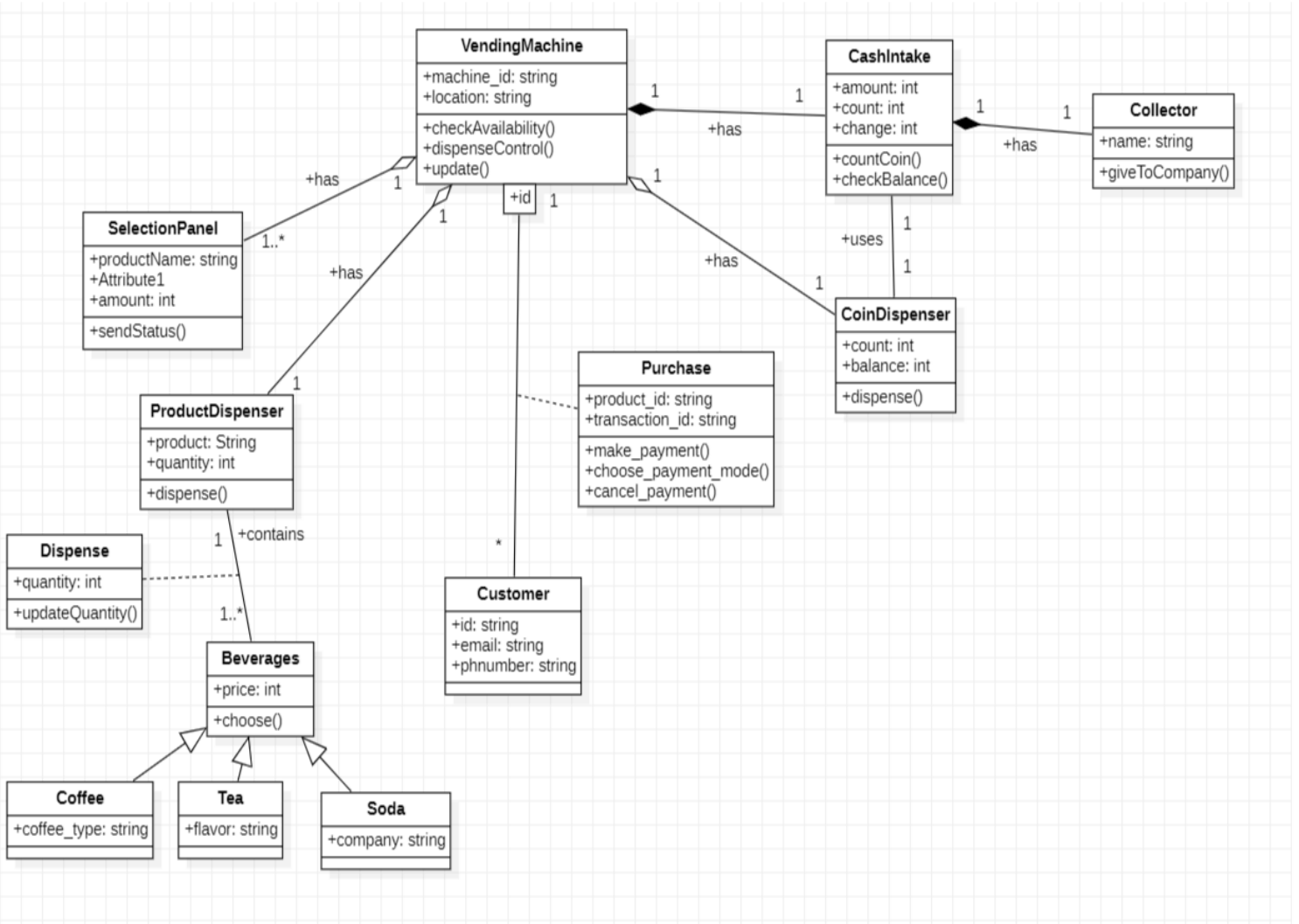

StockMaintenaceSystem
Maintaining
click login
LoggingIn
Login details [valid]
HomePage
do/display all stocks
click logout
LoggingOut
failed
select
stock purchased
purchase: StockPurchase
StockStatus
entry/stock status updated
do/check stock status
return
MaintainRecord
do/Enter updated record
[stockEmpty]
OrderStock
entry/stock finished
do/order more stocks
[stockOrdered]
order received
OrderedStockStatus
entry/back track order
do/check order status
waiting


stm StockPurchase
quantity entered
InventoryCheck
do/check availability of stock
[available]
Sell
do/contact trader and sell item
[!available]
Payment
do/enter back details
details entered
Validating
do/validates details
error
successful

LAB 4

Class diagram:



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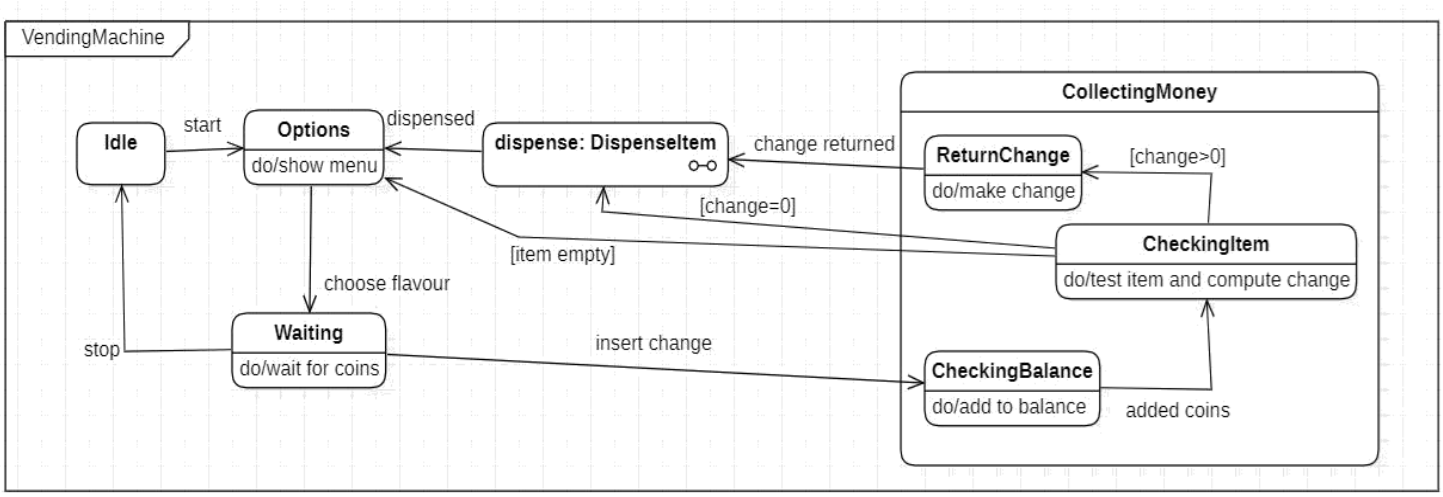
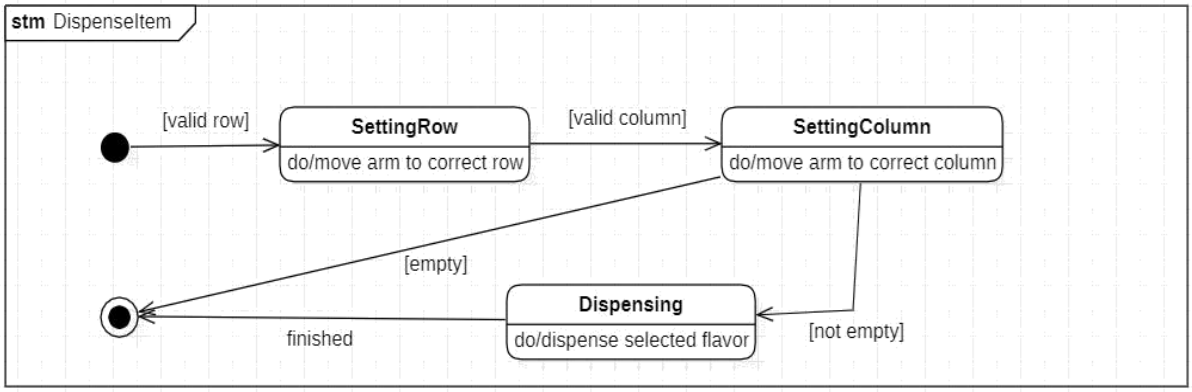
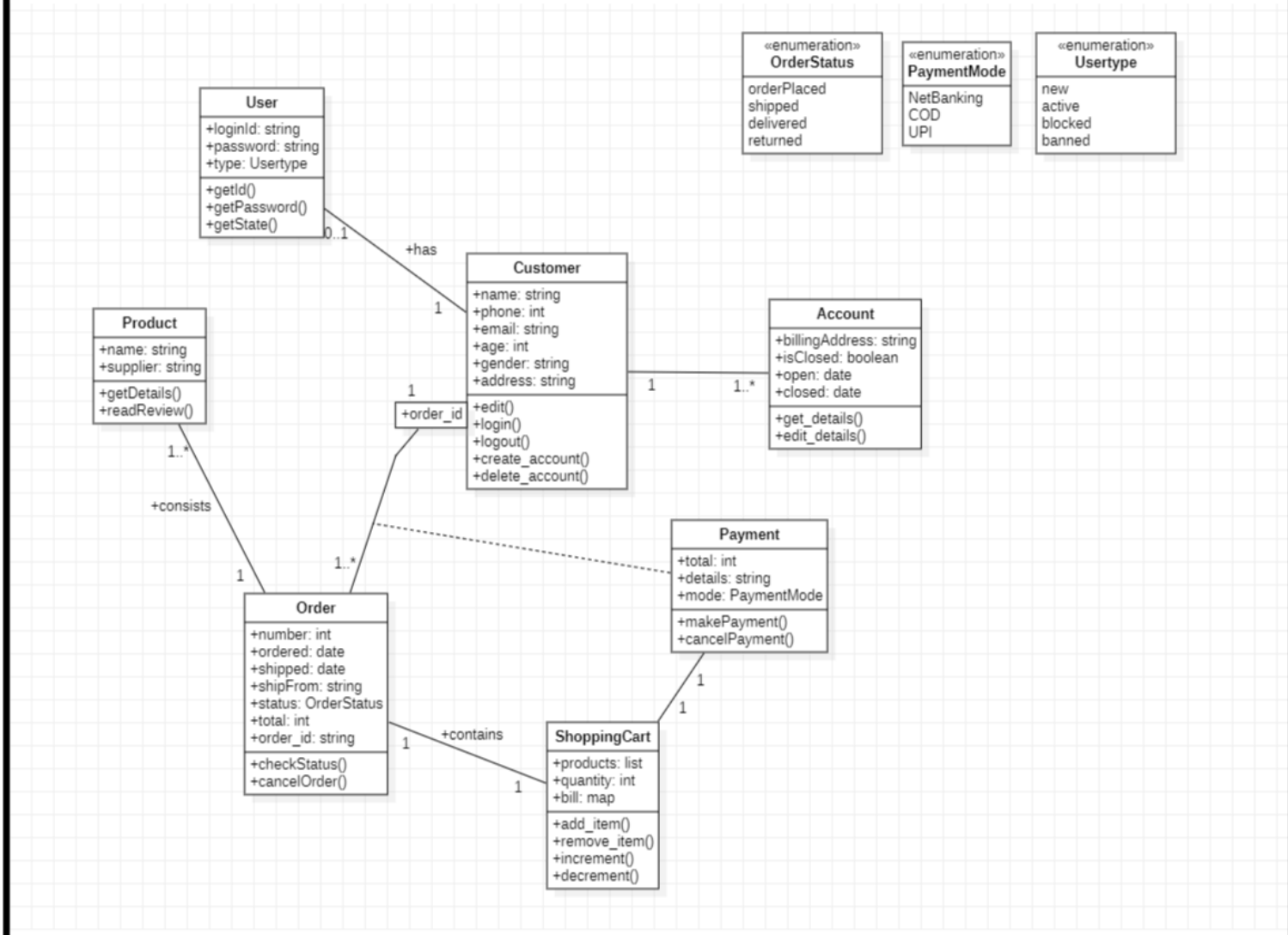


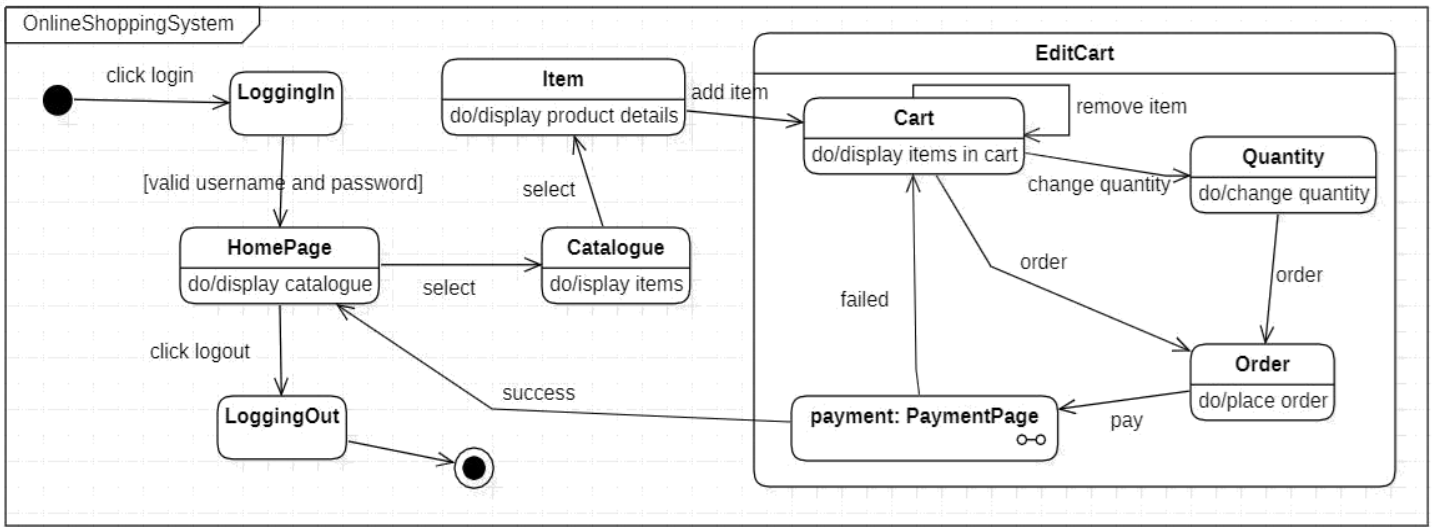


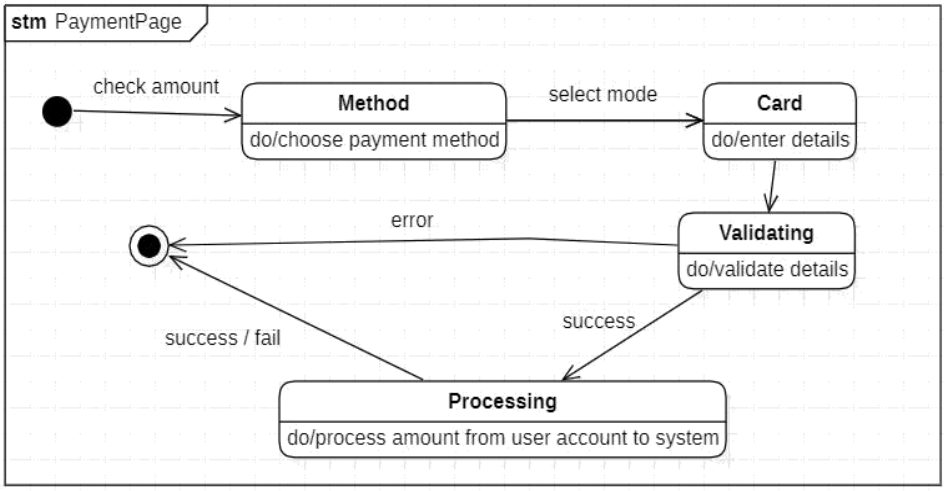
LAB 5

Class diagram:



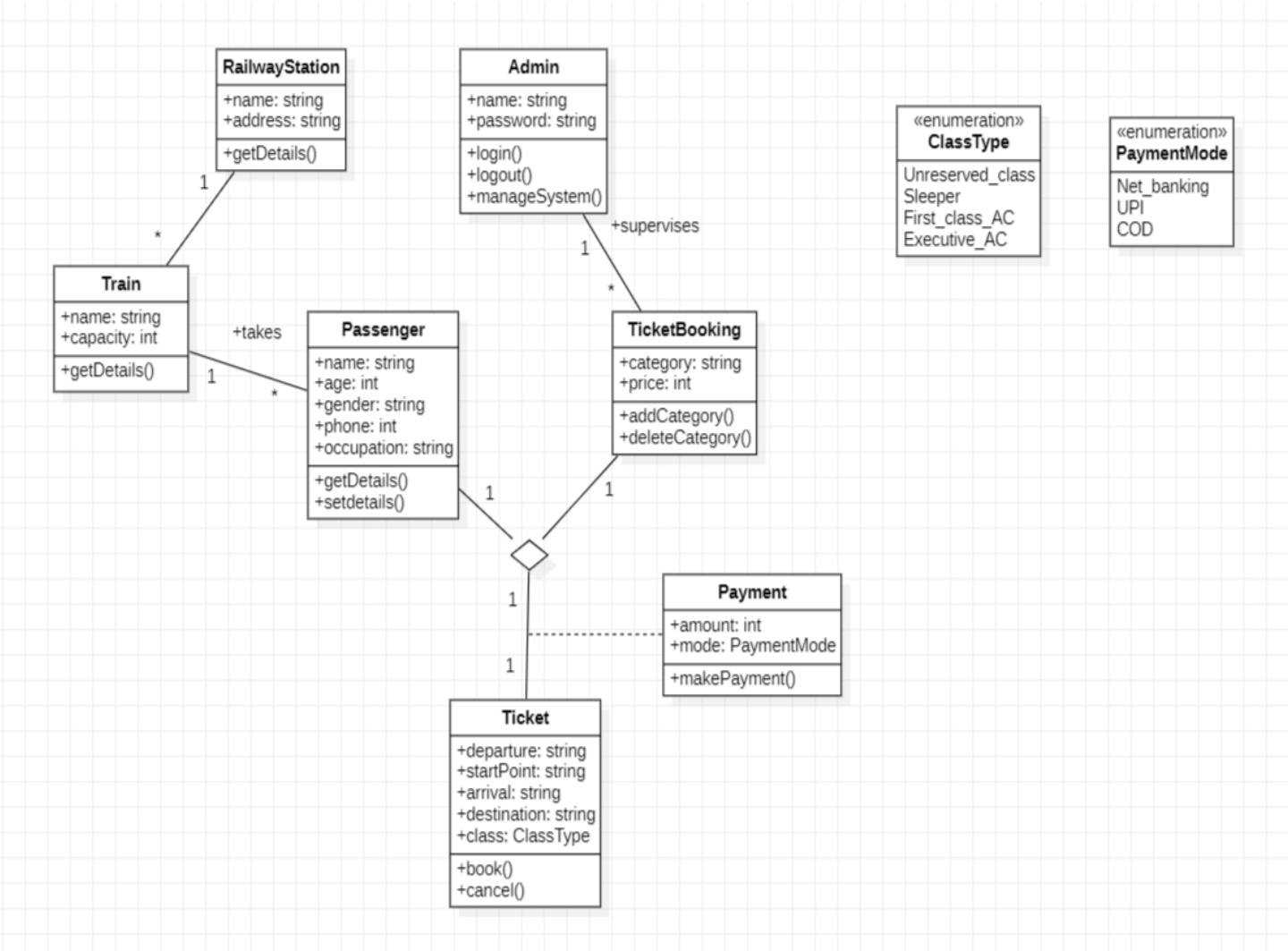
State diagram:





LAB 6

Class diagram:



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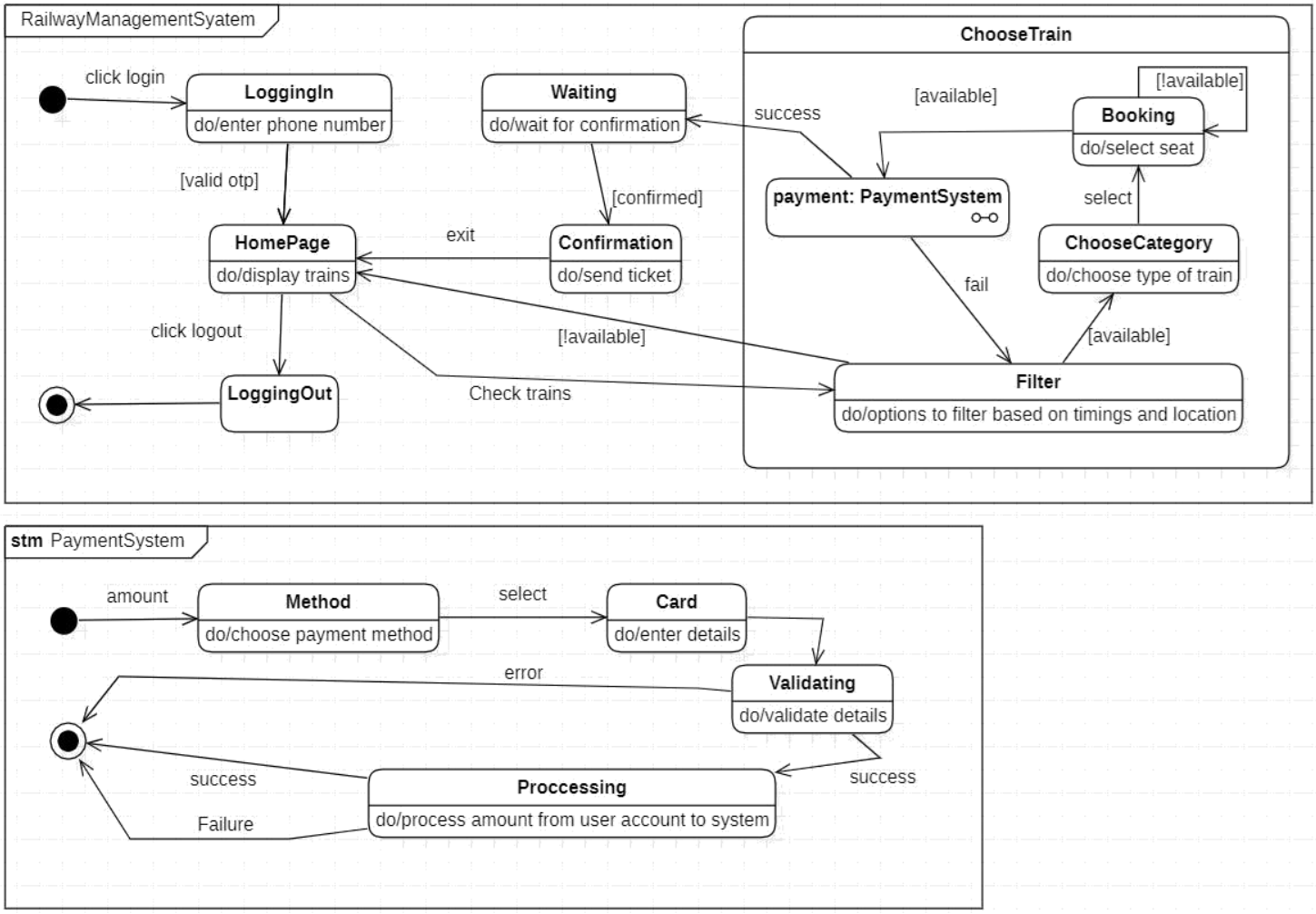
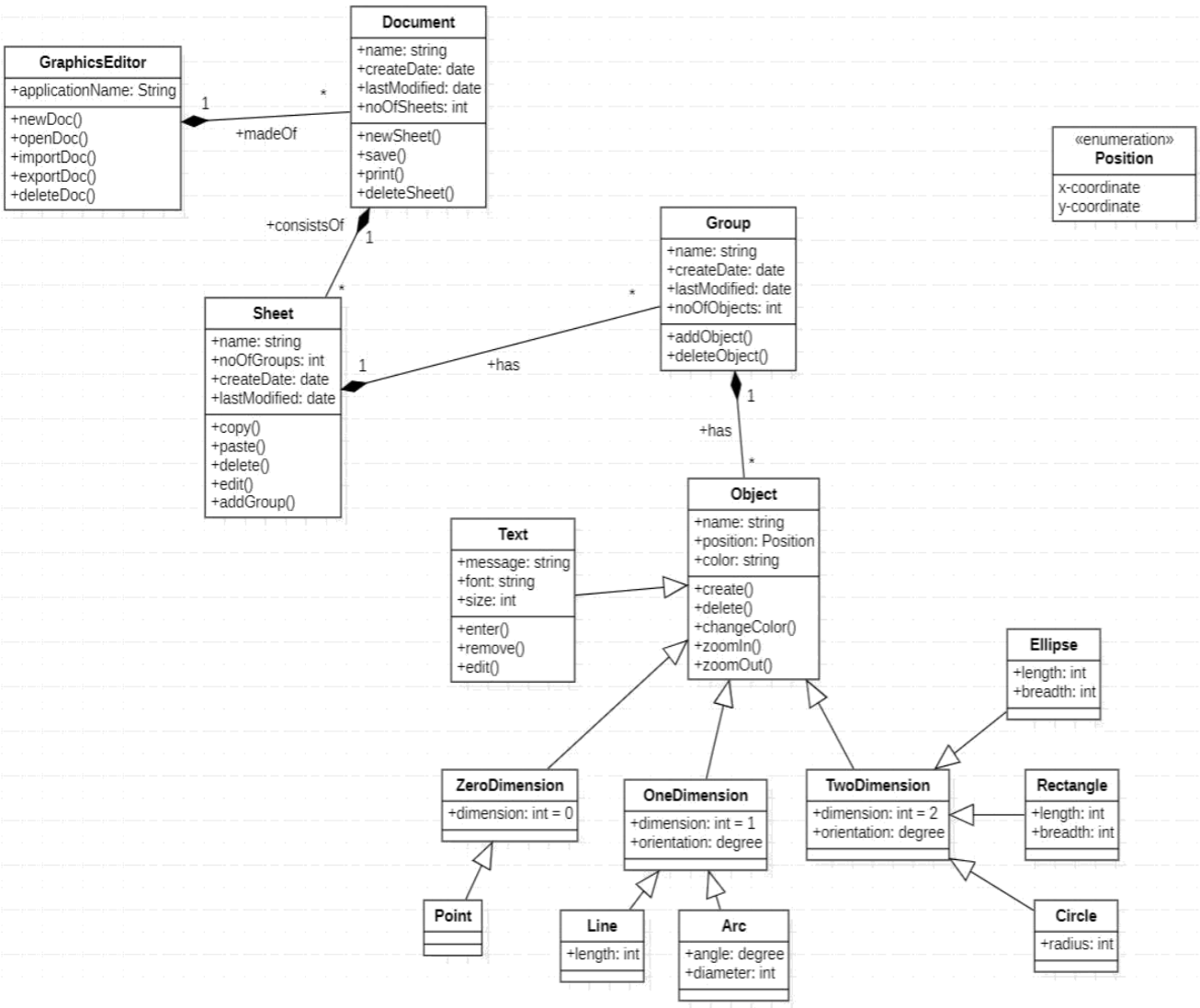
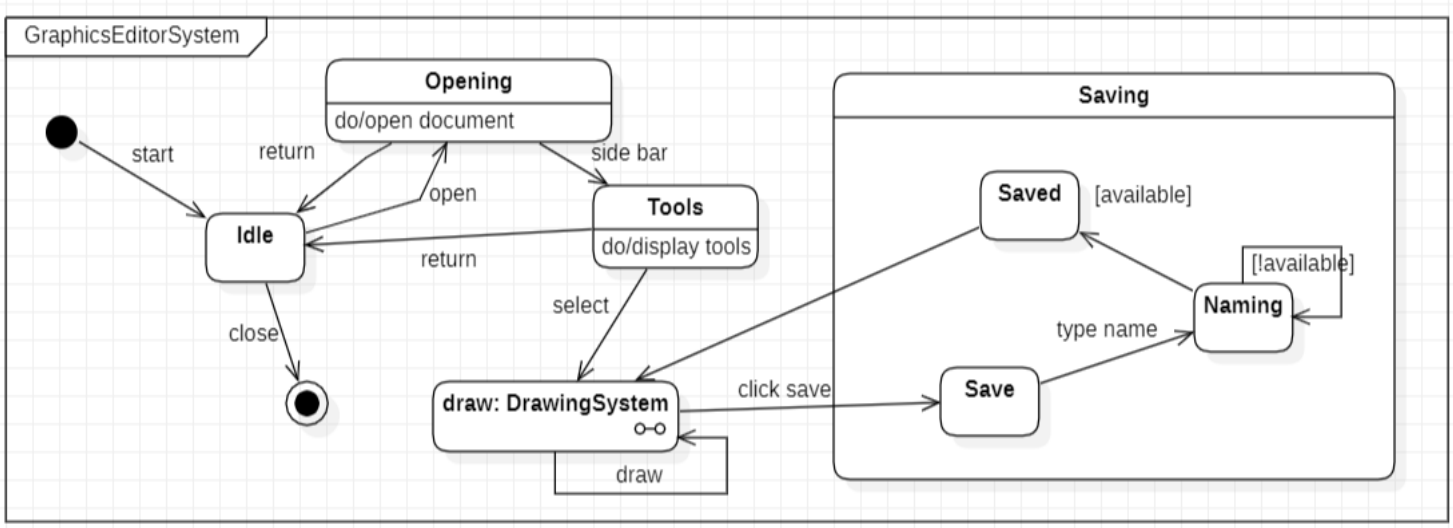
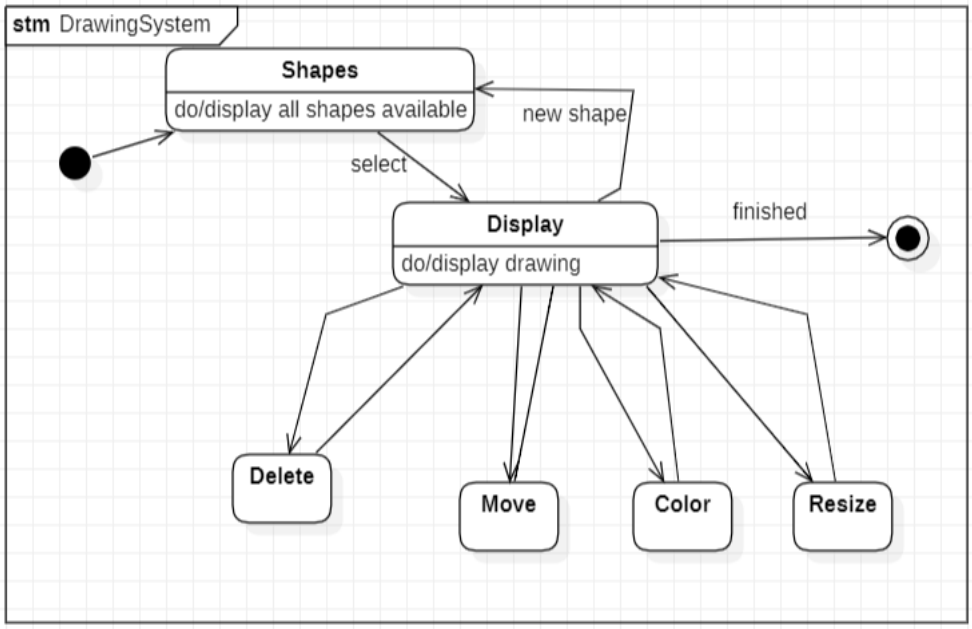


LAB 7

Class diagram:



State diagram: