

Monash University Malaysia

BSc Computer Science

Assignment # 4

Domain Modelling, Sequence Diagrams & Design Class Diagrams

FIT2001 Assignment 4 - Group 30204

Prepared By:

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Ng Kah Hoe

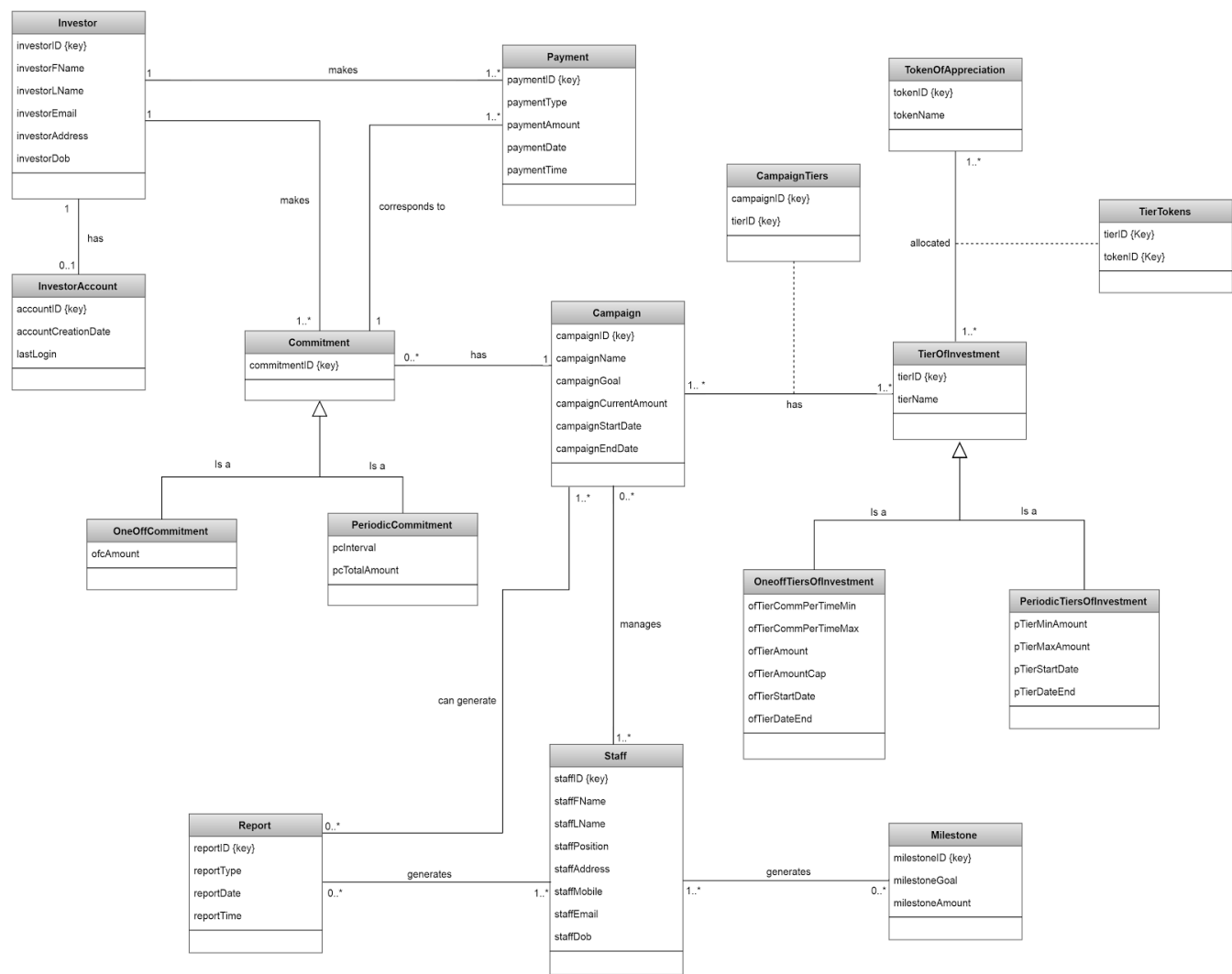
Bazil Muzaffar Kotriwala

Cheng Hsiu Quan

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Domain Model Class Diagram

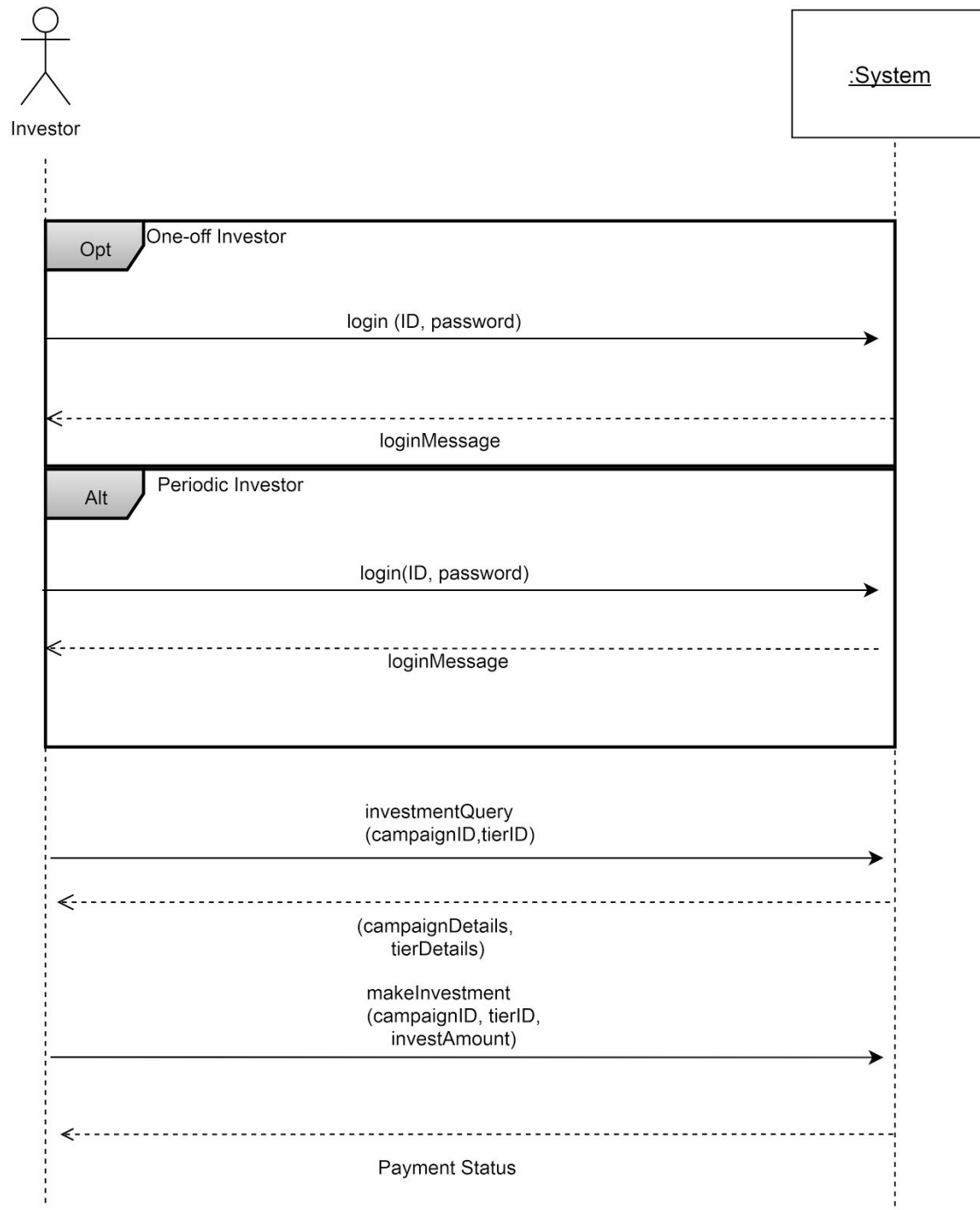


Assumptions(Domain Class Diagram):

- The one off investor can only make an investment once he's made a payment.
- The periodic investor can make a periodic investment, but he will have to pay the first time when he is making an investment, then the rest of his payments will happen periodically.
- For a potential investor to become an investor, he must make at least one or more commitments towards a campaign.
- For an investor to make an investment, he must make at least one or more payments.

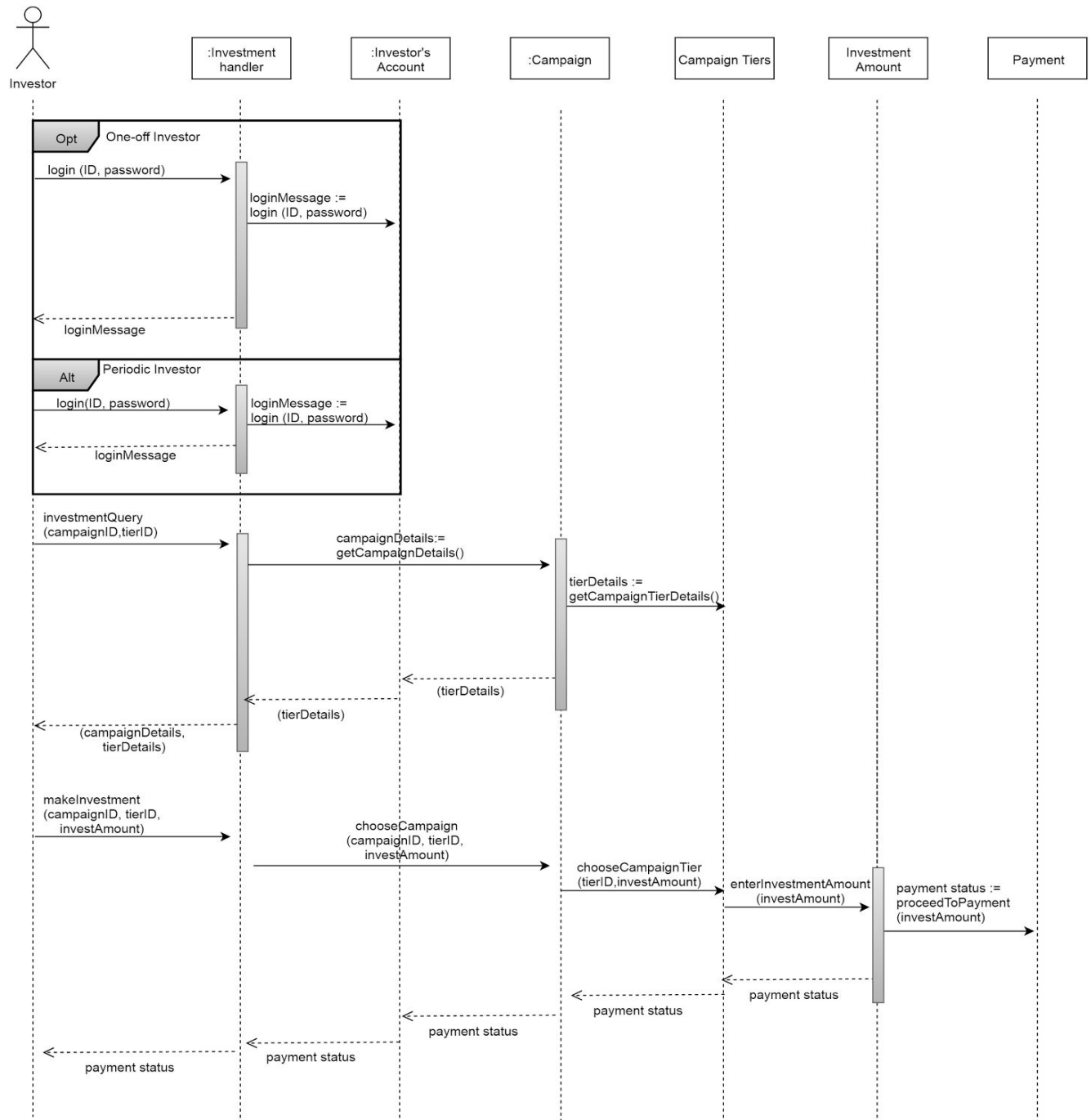
Sequence Diagrams

System Sequence Diagram



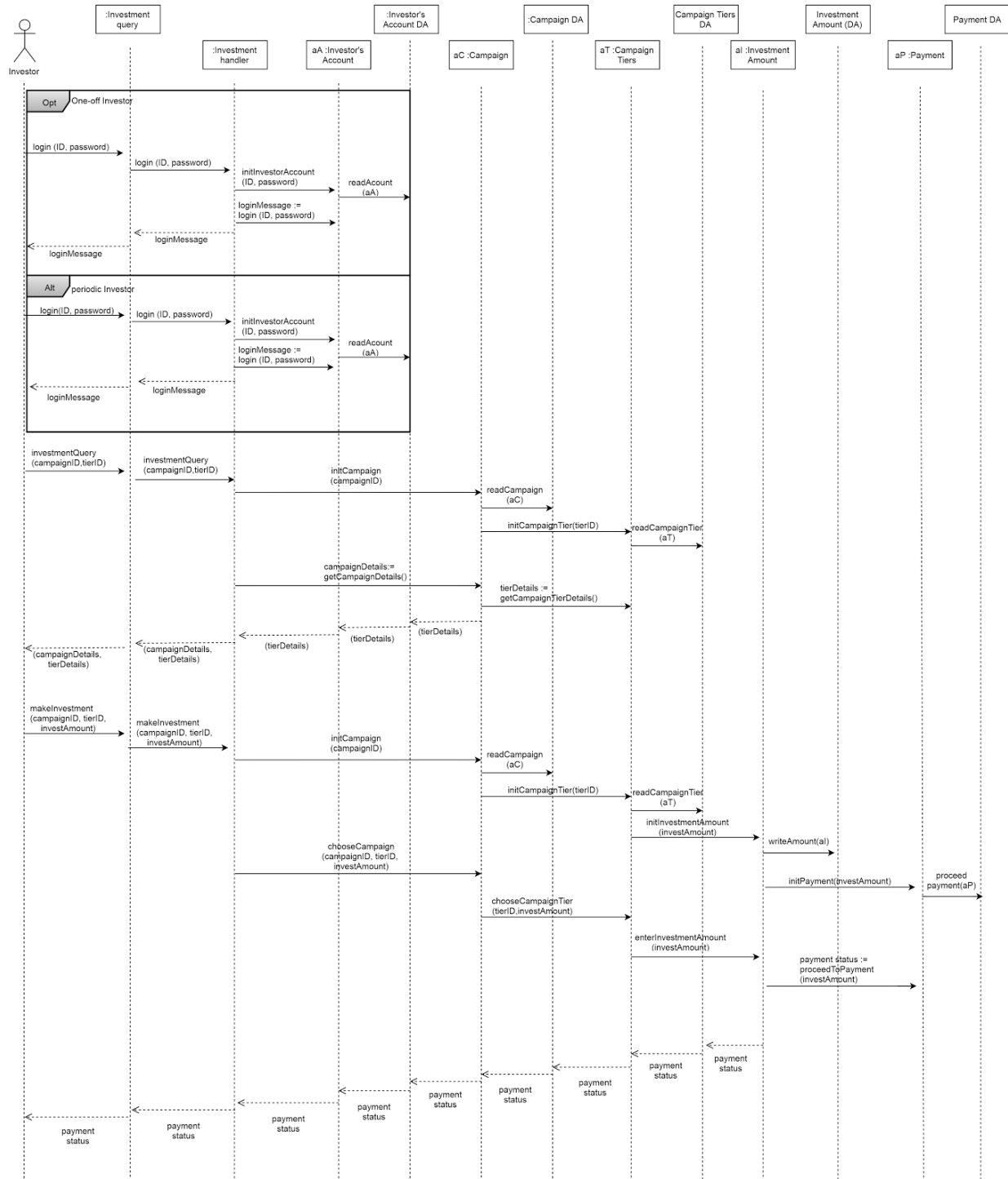
First Cut Sequence Diagram

(Make An Investment Functionality)



Final Cut Sequence Diagram

(Make An Investment Functionality)

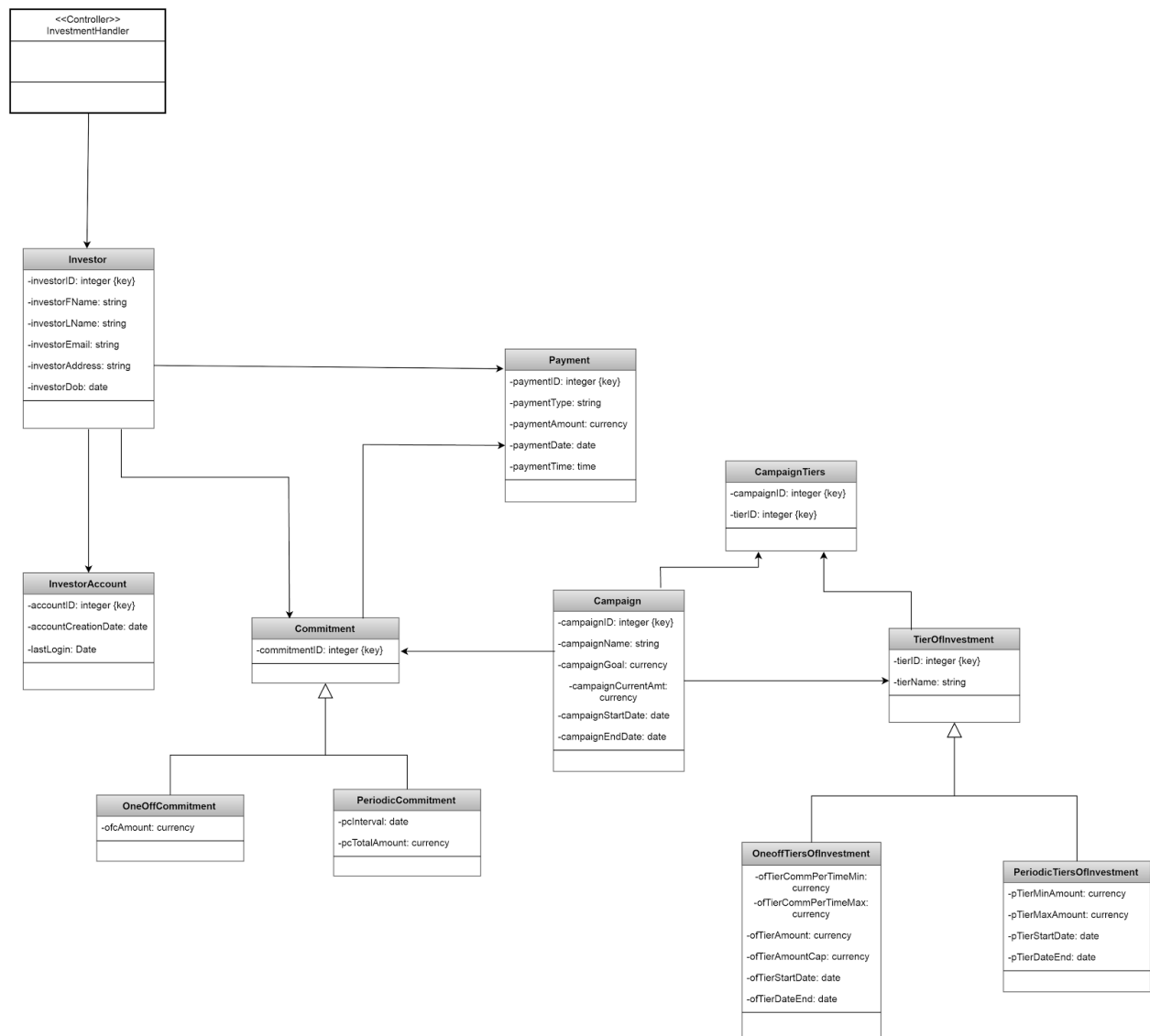


Assumptions(All Sequence Diagrams):

- One off investors have the option to make an account or invest in a campaign without making an account.
- Periodic investors must create an account and login to make an investment.
- One off investors can make an investment query without logging in.

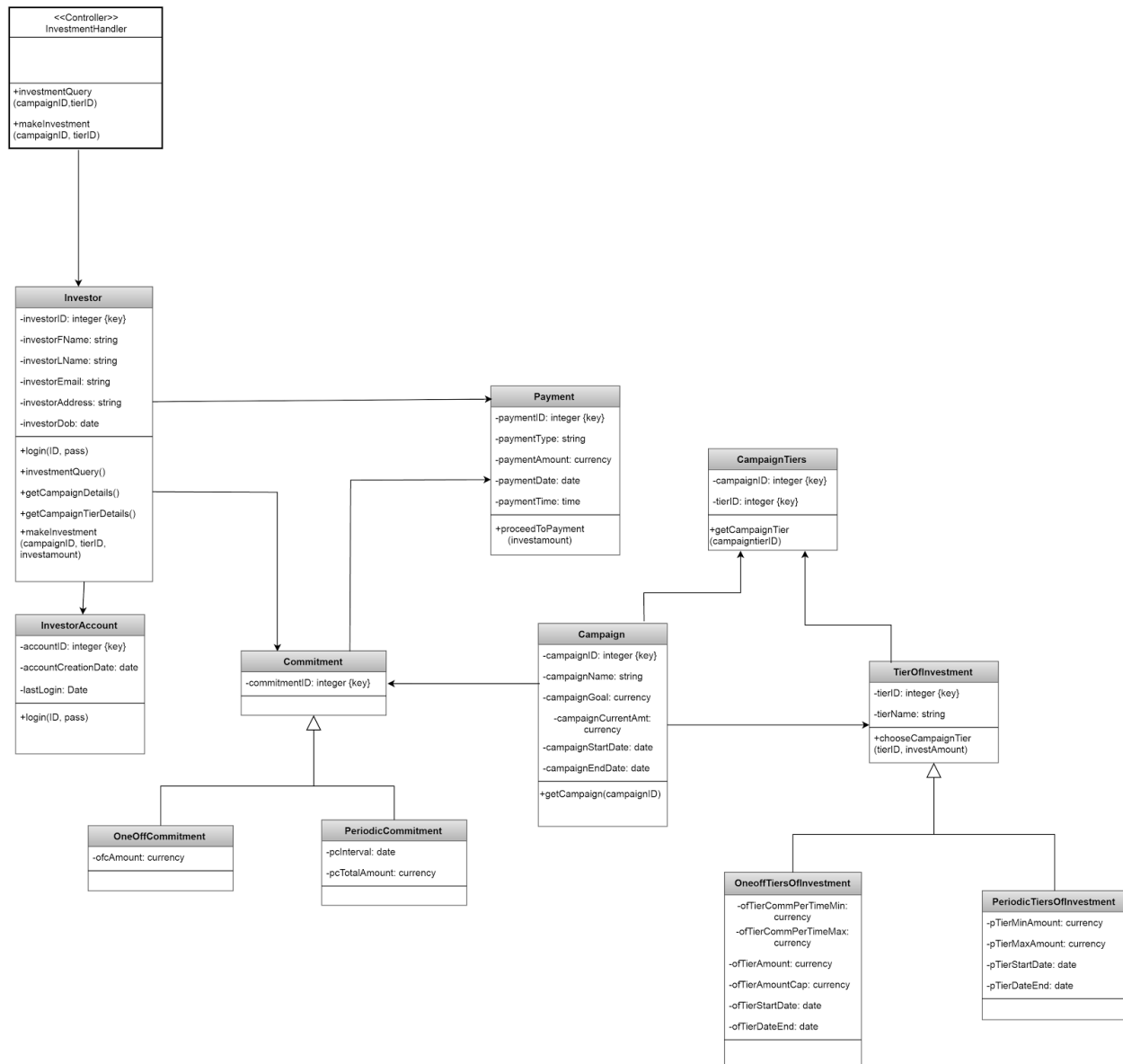
Design Class Diagrams

First Cut Design Class Diagram (Make an Investment Functionality)



Final Cut Design Class Diagram

(Make an Investment Functionality)



Appendix A:

Assignment Plan

Communication

Team members will continue to communicate through the existing WhatsApp group chat online. Members are responsible to check the group chat periodically for updates. Virtual meetings will be held using Skype and occasionally in person.

Task Allocation

No.	Task	Allocation	Deadline
1	Review Assignment 4 and split tasks among team members	All	During meeting 1
2	Make a list of classes with their attributes in preparation for domain class diagram	All	By meeting 2
3	Review list of classes	All	During meeting 2
4	Construct domain class diagram using software	All	By meeting 3
5	Review domain class diagram	All	During meeting 3
6	Draft system sequence diagram	All	During meeting 3
7	Construct the system sequence diagram	All	By Meeting 4
8	Construct first cut sequence diagram	All	During meeting 4

9	Review completed first cut sequence diagram	All	During meeting 4
10	Draft final cut sequence diagram	All	By meeting 5
11	Construct and finalise final cut sequence diagram	All	During meeting 5
12	Draft first cut design class diagram	All	During meeting 5
13	Finalise first cut design class diagram	All	During meeting 5
14	Draft final cut design class diagram	All	By meeting 6
15	Finalise final cut design class diagram	All	During meeting 6

Appendix B:

Meeting Agenda & Minutes

FIT2001 Team 30204 – Meeting 1 – 12 May 2016

1. Attendance and Apologies

Members present: Tee Kai Yoong, Ng Kah Hoe, Bazil Muzaffar Kotriwala, Cheng Hsiu Quan

Apologies: N/A

2. Minutes of previous meeting: N/A, This is the first meeting.

3. Business arising from previous meeting

Item	Action	Person(s) Responsible	Status
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

4. Agenda

4.1. Review the Assignment

4.2. Discuss the diagrams to be made - allocate work

4.3. Discuss the Domain Class Diagram

4.4. List all the classes with attributes to be made

Action Sheet from today's Meeting

Item	Action	Person(s) Responsible	Expected completion date/time
1- 4.1	Thoroughly read and understand assignment requirements	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	12 - May - 16, 10:20pm

1- 4.2	View the requirements of the diagrams to be made and allocate the diagrams respectively to each member.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	19 - Apr - 16, 10:45pm
1- 4.3	Discuss what needs to be done to make the Domain Class Diagram	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	19 - Apr - 16 11:00pm
1- 4.4	List all the Classes and their Attributes which need to be constructed for the Domain Class Diagram.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	19 - Apr - 16 11:40pm

5. Concerns - N/A

6. Next meeting

The next meeting is scheduled for 16 - May - 16, 9:30 pm on Skype.

FIT2001 Team 30204 – Meeting 2 – 16 May 2016

1. Attendance and Apologies

Members present: Tee Kai Yoong, Ng Kah Hoe, Bazil Muzaffar Kotriwala, Cheng Hsiu Quan

Apologies: N/A

2. Minutes of previous meeting:

The meeting members confirmed acceptance of the minutes of meeting 1 on 12/5/2016 as an accurate record of that meeting.

3. Business arising from previous meeting

Item	Action	Person(s) Responsible	Status
1 - 4.1	Thoroughly read and understand assignment requirements	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	Completed
1 - 4.2	View the requirements of the diagrams to be made and allocate the diagrams respectively to each member.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	Completed
1 - 4.3	Discuss what needs to be done to make the Domain Class Diagram	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	Completed
1 - 4.4	List all the Classes and their Attributes which need to be constructed for the Domain Class Diagram.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	Completed

4. Agenda

4.1. Construct the Classes with Attributes on software

4.2. Construct all the Relationships, Associations and Multiplicities between the classes

4.3. Complete the Domain Class Diagram

Action Sheet from today's Meeting

Item	Action	Person(s) Responsible	Expected completion date/time
2- 4.1	Make the classes with their respective attributes on software. (draw.io)	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	16 - May - 16, 10:15pm

2 - 4.2	Add connectives depending on the relationships, associations and multiplicities between classes.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	16 - May - 16 11:00pm
2 - 4.3	Complete the Domain Class Diagram by reviewing the diagram made and making required changes accordingly.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	16 - May - 16 11:30pm

5. Concerns - N/A

6. Next meeting

The next meeting is scheduled for 17 - May - 16, 10:30 pm on Skype.

FIT2001 Team 30204 – Meeting 3 – 17 May 2016

1. Attendance and Apologies

Members present: Tee Kai Yoong, Ng Kah Hoe, Bazil Muzaffar Kotriwala, Cheng Hsiu Quan

Apologies: N/A

2. Minutes of previous meeting:

The meeting members confirmed acceptance of the minutes of meeting 2 on 16/5/2016 as an accurate record of that meeting.

3. Business arising from previous meeting

Item	Action	Person(s) Responsible	Status
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2 - 4.1	Make the classes with their respective attributes on software. (draw.io)	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	Completed
2 - 4.2	Add connectives depending on the relationships, associations and multiplicities between classes.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	Completed
2 - 4.3	Complete the Domain Class Diagram by reviewing the diagram made and making required changes accordingly.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	Completed

4. Agenda

4.1. Discuss the Sequence Diagram

4.2. Construct the System Sequence Diagram on software.

Action Sheet from today's Meeting

Item	Action	Person(s) Responsible	Expected completion date/time
3- 4.1	Discuss what needs to be made in the Sequence Diagram.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	17 - May - 16, 11:00pm
3- 4.2	Construct the System Sequence Diagram and review and finalize it.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	17 - May - 16, 12:00am

5. Concerns - N/A

6. Next meeting

The next meeting is scheduled for 18 - May -16, 9:00 pm on Skype.

FIT2001 Team 30204 – Meeting 4 – 18

May 2016

1. Attendance and Apologies

Members present: Tee Kai Yoong, Ng Kah Hoe, Bazil Muzaffar Kotriwala, Cheng Hsiu Quan

Apologies: N/A

2. Minutes of previous meeting:

The meeting members confirmed acceptance of the minutes of meeting 3 on 17/5/2016 as an accurate record of that meeting.

3. Business arising from previous meeting

Item	Action	Person(s) Responsible	Status
3 - 4.1	Discuss what needs to be made in the Sequence Diagram.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	Completed
3 - 4.2	Construct the System Sequence Diagram and review and finalize it.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	Completed

4. Agenda

4.1. Construct the First Cut Sequence Diagram on software

4.2. Complete and Finalize the First Cut Sequence Diagram

4.3. Construct the Final Cut Sequence Diagram First Draft on software

Action Sheet from today's Meeting

Item	Action	Person(s) Responsible	Expected completion date/time
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4 - 4.1	Construct the First Cut Sequence Diagram for the 'Make an Investment' functionality on software	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	19 - May - 16, 10:00pm
4 - 4.2	Complete the First Cut Sequence Diagram by reviewing the diagram made and making required changes accordingly.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	19 - May - 16 10:45pm
4 - 4.3	Construct the Final Cut Sequence Diagram for the 'Make an Investment' functionality on software	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	19 - May - 16 11:30pm

5. Concerns - N/A

6. Next meeting

The next meeting is scheduled for 19 - May -16, 8:00pm on Skype

FIT2001 Team 30204 – Meeting 5 – 19 May 2016

1. Attendance and Apologies

Members present: Tee Kai Yoong, Ng Kah Hoe, Bazil Muzaffar Kotriwala, Cheng Hsiu Quan

Apologies: N/A

2. Minutes of previous meeting:

The meeting members confirmed acceptance of the minutes of meeting 4 on 18/5/2016 as an accurate record of that meeting.

3. Business arising from previous meeting

Item	Action	Person(s) Responsible	Status
4 - 4.1	Construct the First Cut Sequence Diagram for the 'Make an Investment' functionality on software	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	Completed
4 - 4.2	Complete the First Cut Sequence Diagram by reviewing the diagram made and making required changes accordingly.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	Completed
4 - 4.3	Construct the Final Cut Sequence Diagram First Draft for the 'Make an Investment' functionality on software	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	Completed

4. Agenda

4.1. Complete the Final Cut Sequence Diagram

4.2. Construct the First Cut Design Class Diagram First Draft on software

4.3. Complete the First Cut Design Class Diagram

Action Sheet from today's Meeting

Item	Action	Person(s) Responsible	Expected completion date/time
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5 - 4.1	Complete the Final Cut Sequence Diagram by reviewing the diagram made and making required changes accordingly.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	19 - May - 16, 8:45pm
5 - 4.2	Construct the First Cut Design Class Diagram First Draft for the 'Make an Investment' functionality on software.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	19 - May - 16 10:00pm
5 - 4.3	Complete the First Cut Design Class Diagram by reviewing the diagram made and making required changes accordingly.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	19 - May - 16 11:00pm

5. Concerns - N/A

6. Next meeting

The next meeting is scheduled for 20 - May - 16, 9:00 am at Monash University.

FIT2001 Team 30204 – Meeting 6 – 20 May 2016

1. Attendance and Apologies

Members present: Tee Kai Yoong, Ng Kah Hoe, Bazil Muzaffar Kotriwala, Cheng Hsiu Quan

Apologies: N/A

2. Minutes of previous meeting:

The meeting members confirmed acceptance of the minutes of meeting 5 on 19/5/2016 as an accurate record of that meeting.

3. Business arising from previous meeting

Item	Action	Person(s) Responsible	Status
5 - 4.1	Complete the Final Cut Sequence Diagram by reviewing the diagram made and making required changes accordingly.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	Completed
5 - 4.2	Construct the First Cut Design Class Diagram First Draft for the 'Make an Investment' functionality on software.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	Completed
5 - 4.3	Complete the First Cut Design Class Diagram by reviewing the diagram made and making required changes accordingly.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	Completed

4. Agenda

- 6.1. Construct the Final Cut Design Class Diagram First Draft on software
- 6.2. Complete the Final Cut Design Class Diagram
- 6.3. Review all diagrams made and compile all documentation.

Action Sheet from today's Meeting

Item	Action	Person(s) Responsible	Expected completion date/time
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6 - 4.1	Construct the Final Cut Design Class Diagram First Draft for the 'Make an Investment' functionality on software.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	20 - May - 16, 10:00am
6 - 4.2	Complete the Final Cut Design Class Diagram by reviewing the diagram made and making required changes accordingly.	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	20 - May - 16 11:30am
6 - 4.3	Compile all documentation and Diagrams	Kai Yoong, Kah Hoe, Bazil Muzaffar, Hsiu Quan	20 - May - 16 12:30pm

5. Concerns - N/A

6. Next meeting

This was the last meeting. The documentation has been completed.