

Software Design Problem Specification for Deliverable 2

Part 2: the Social Ads System Project

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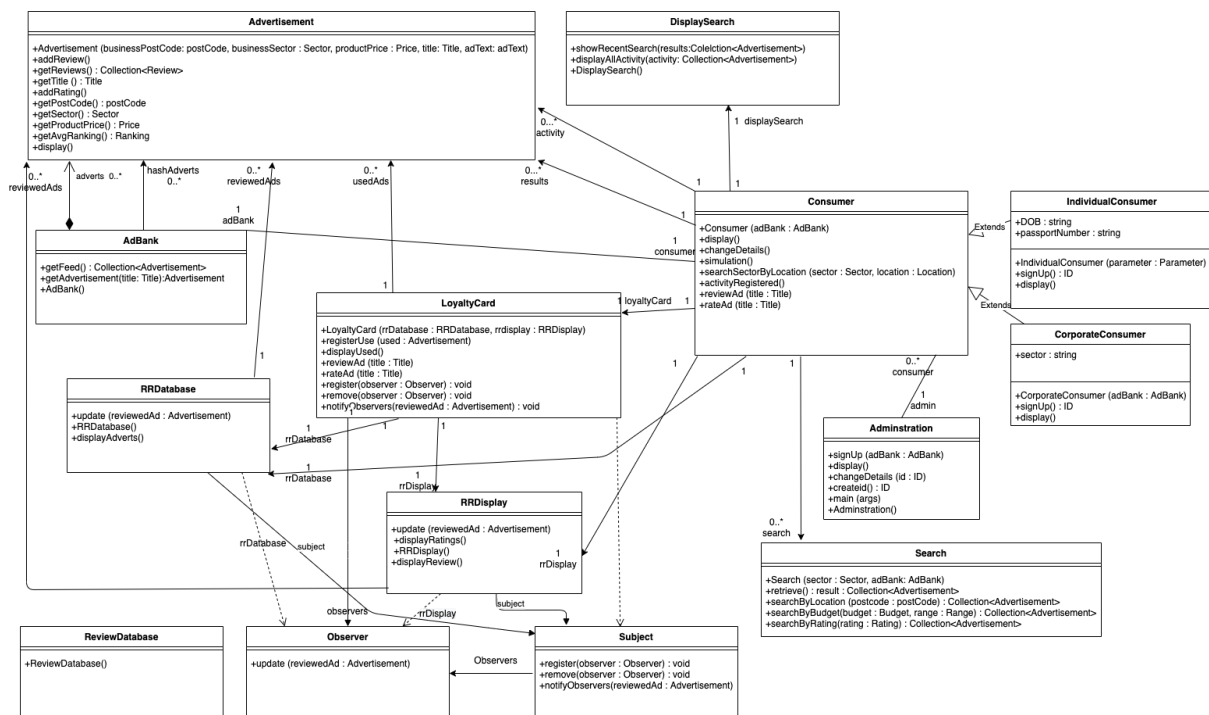
(Task 3.1)

Extended class diagram

Inserted the individual and corporate classes with their own methods that are now not needed into the Consumer class so they've been deleted from the former class.

Created the subject and observer classes and their own connections with other classes to pass subject/observers/rrDatabase/rrDisplay needed for the update method.

Created ReviewDatabase as a singleton but couldn't fully implement it isn't precisely described in the assignment brief. (Figure 1)



Class Diagram(Figure 1)

(Task 3.3)

Produce Output Trace

Type 1 for individual consumer or 2 for corporate consumer:

1

Input Details for an IndividualConsumer

Id Number: 32609

John

07384983844

B42 2SU

JohnK@bcu.ac.uk

21/05/1980

UI302RNM

Results of Search for Double Glazing B42 2SU

Smiths:Bay Window

white 4x3

Find out more at: B42 2SU

For just: £400.2

Johnsons:Bay Window

Gray 2x3m

Find out more at: B42 2SU

For just: £350.6

Results of Search for Books DY1 4YP

Waterstones:By the River Bank

Hardback:Peterson

Find out more at: DY1 4YP

For just: £5.2

Results of Search for Books DY1 4VP

Waterstones:By the River Bank
Hardback:Peterson
Find out more at: DY1 4YP
For just: £5.2

All Search Results

Smiths:Bay Window
white 4x3
Find out more at: B42 2SU
For just: £400.2

Johnsons:Bay Window
Gray 2x3m
Find out more at: B42 2SU
For just: £350.6

Waterstones:By the River Bank
Hardback:Peterson
Find out more at: DY1 4YP
For just: £5.2

Register a Used Advertisement on the Loyalty Card

Smiths:Bay Window Registered as Used Advertisement

Register a Used Advertisement on the Loyalty Card

Johnsons:Bay Window Registered as Used Advertisement

Register a Used Advertisement on the Loyalty Card

Screwfix:Screw Driver Registered as Used Advertisement

Register a Used Advertisement on the Loyalty Card

B&Q:Hammer Registered as Used Advertisement

Results of Search for Used Advertisements

B&Q:Hammer

Small

Find out more at: B42 2SU

For just: £150.2

Smiths:Bay Window

white 4x3

Find out more at: B42 2SU

For just: £400.2

Screwfix:Screw Driver

Large

Find out more at: DY1 4YP

For just: £150.2

Johnsons:Bay Window

Gray 2x3m

Find out more at: B42 2SU

For just: £350.6

The consumer reviews an advertisement

Add a Review

Please input a Review for Smiths:Bay Window
good

The consumer reviews an advertisement

Add a Review

Please input a Review for B&Q:Hammer
not good

Display Reviews

Reviews for Smiths:Bay Window
good

Reviews for B&Q:Hammer
not good

The consumer rates an advertisement

Add a Rating

Please input a Ranking 0 - 10 for Smiths:Bay Window
8

The consumer rates an advertisement

Add a Rating

Please input a Ranking 0 - 10 for Screwfix:Screw Driver
4

Display Ratings

Average Rating for Smiths:Bay Window
Average Rating: 8.0

Average Rating for B&Q:Hammer
Average Rating: NaN

Average Rating for Screwfix:Screw Driver

Average Rating: 4.0

Display Reviewed and Rated Advertisements

Information for Smiths:Bay Window

Smiths:Bay Window

white 4x3

Find out more at: B42 2SU

For just: £400.2

Review: good

Average Rating: 8.0

Information for B&Q:Hammer

B&Q:Hammer

Small

Find out more at: B42 2SU

For just: £150.2

Review: not good

Average Rating: NaN

Information for Screwfix:Screw Driver

Screwfix:Screw Driver

Large

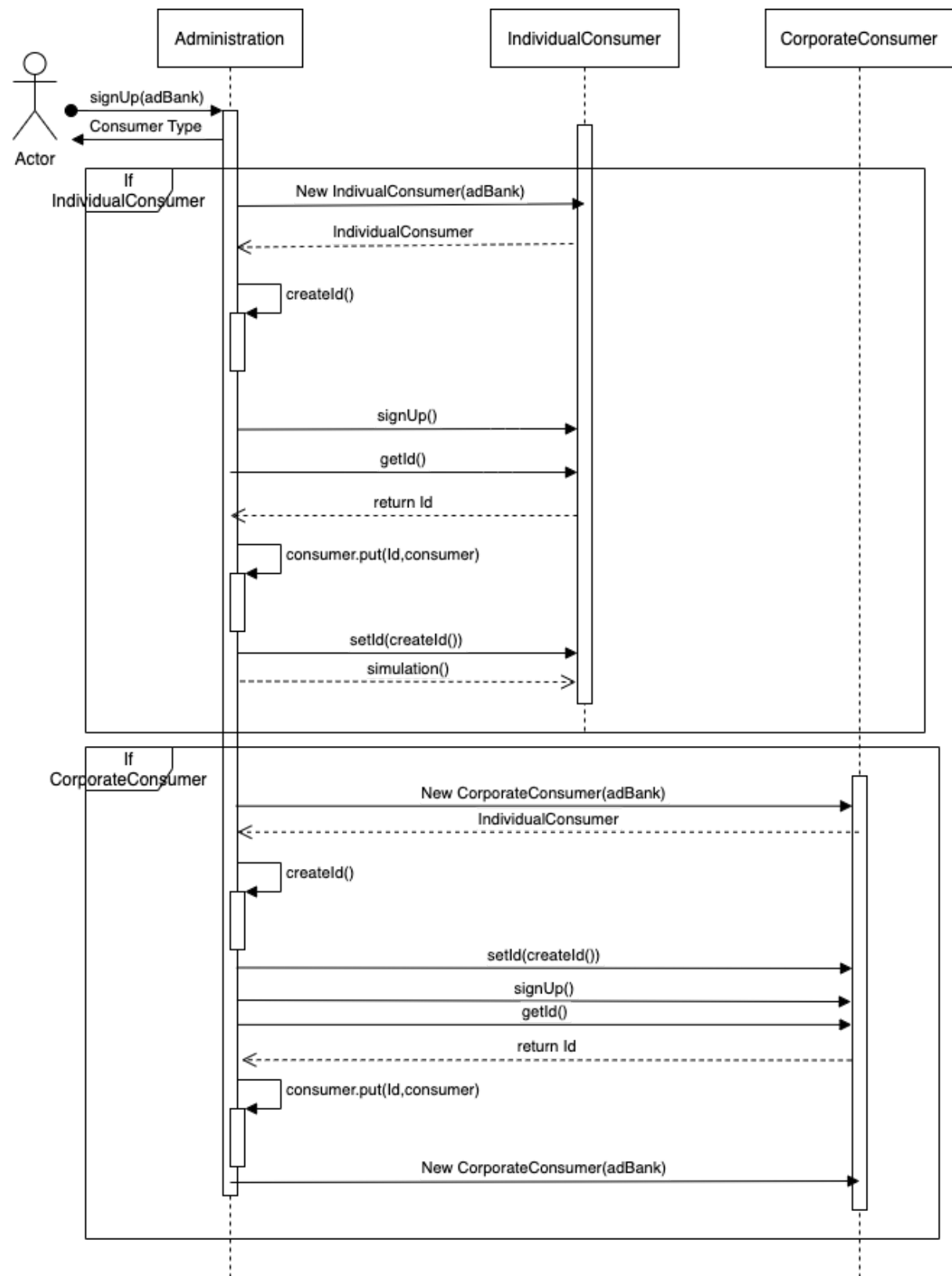
Find out more at: DY1 4YP

For just: £150.2

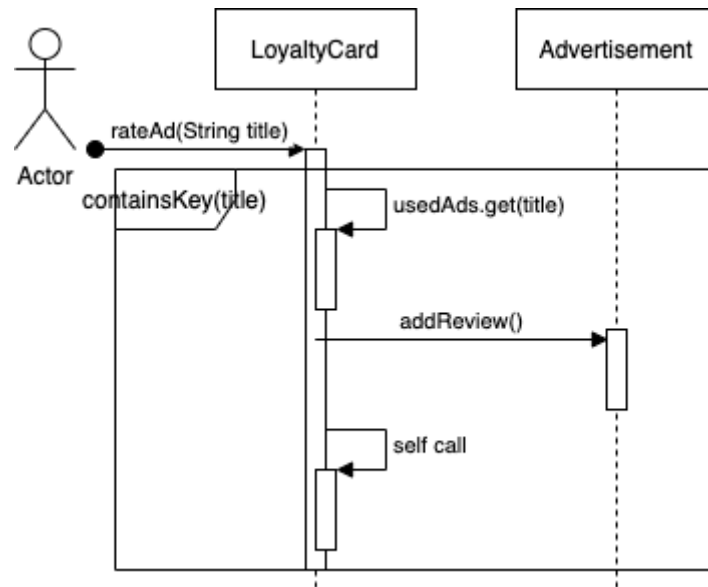
Average Rating: 4.0

(Task 3.4)

Sequence diagrams (Figure 2) (Figure 3)



Sequence Diagram for signUp method(Figure 2)



Sequence Diagram for rateAd method(Figure 3)