



# CST2550: COURSEWORK1

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13/01/2023

# AGENDA

Software design

Software testing

Implementation

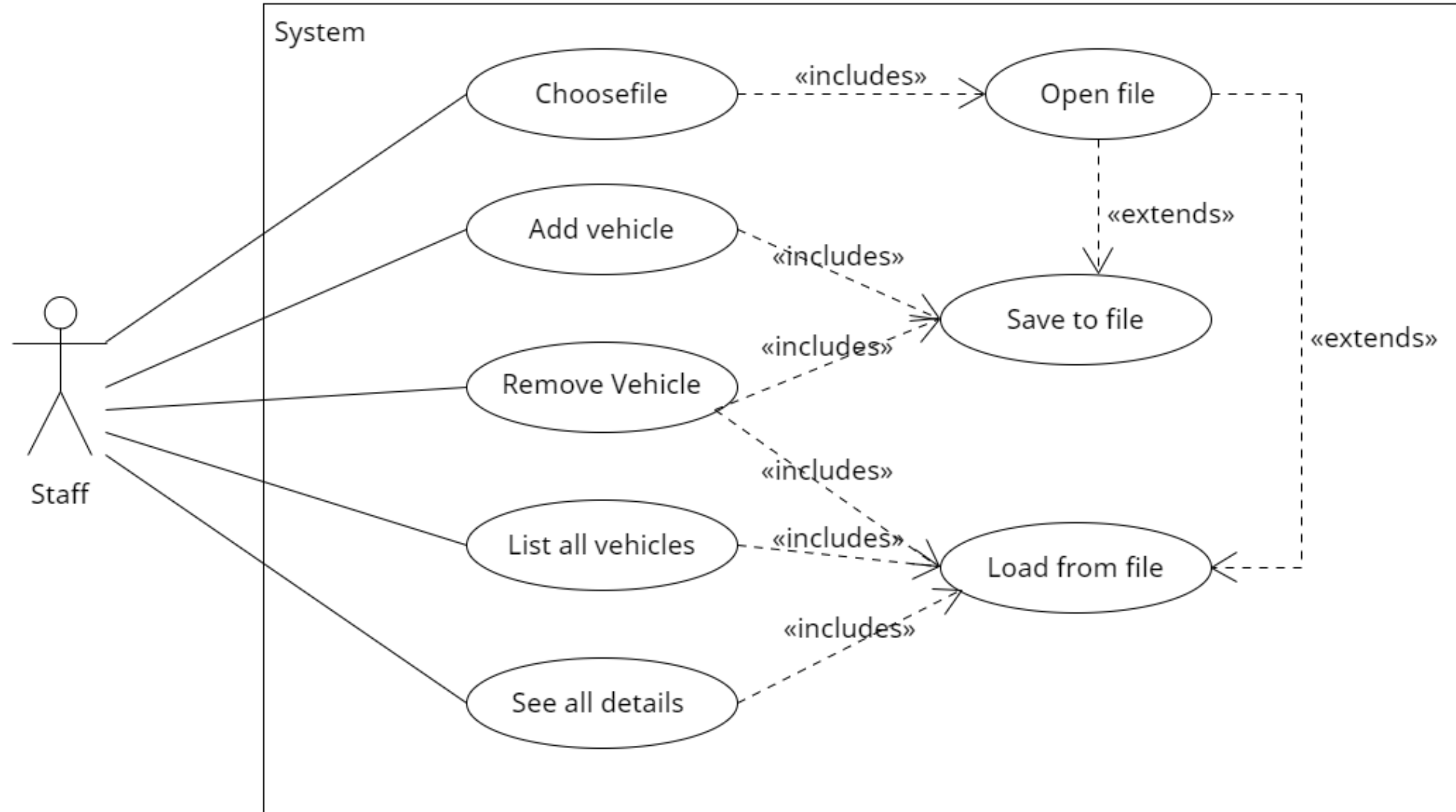
Software demonstration

Conclusion

# SOFTWARE DESIGN

## USE CASE DIAGRAM

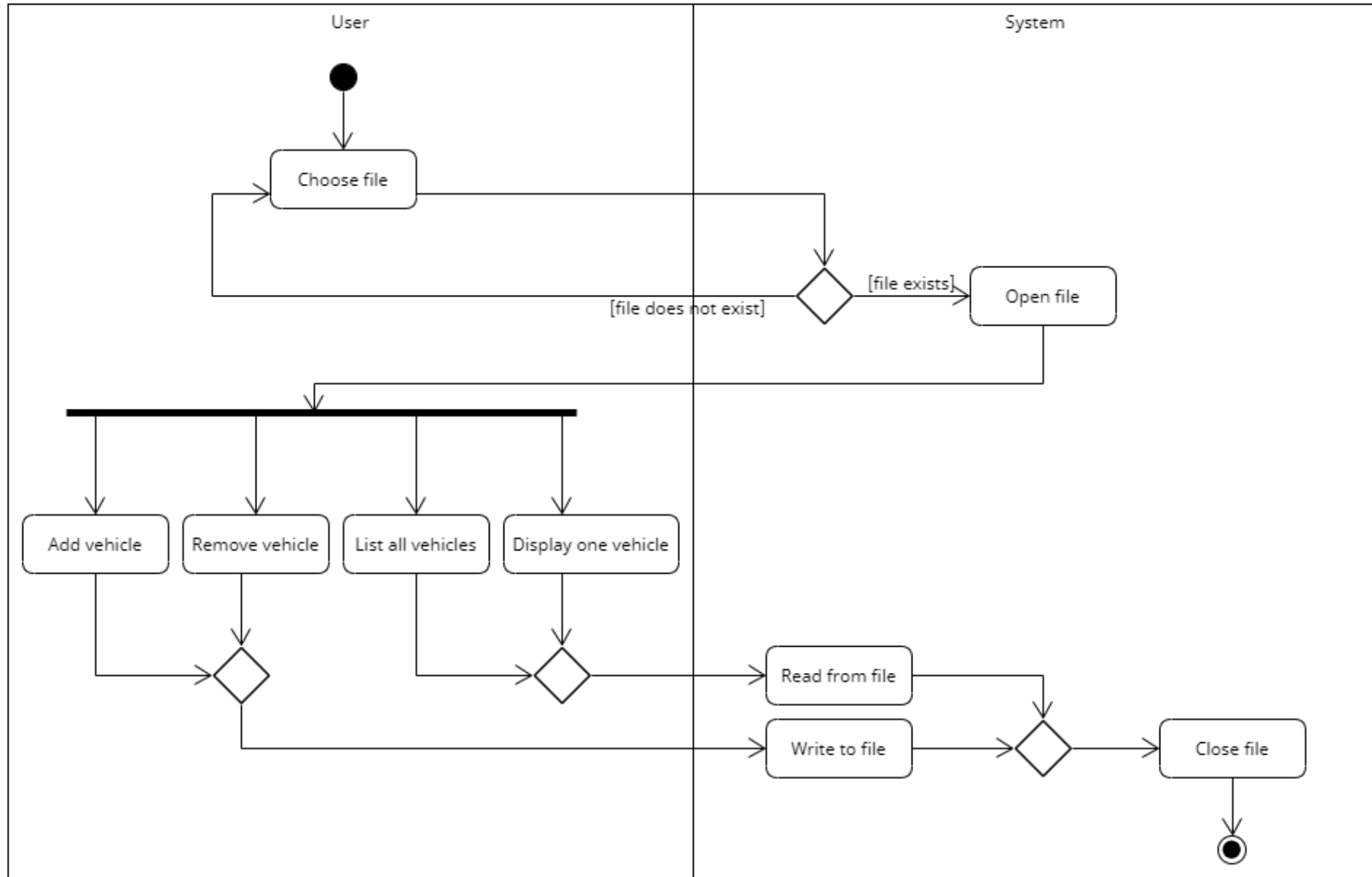
casediagram.uxf



# SOFTWARE DESIGN

## ACTIVITY DIAGRAM

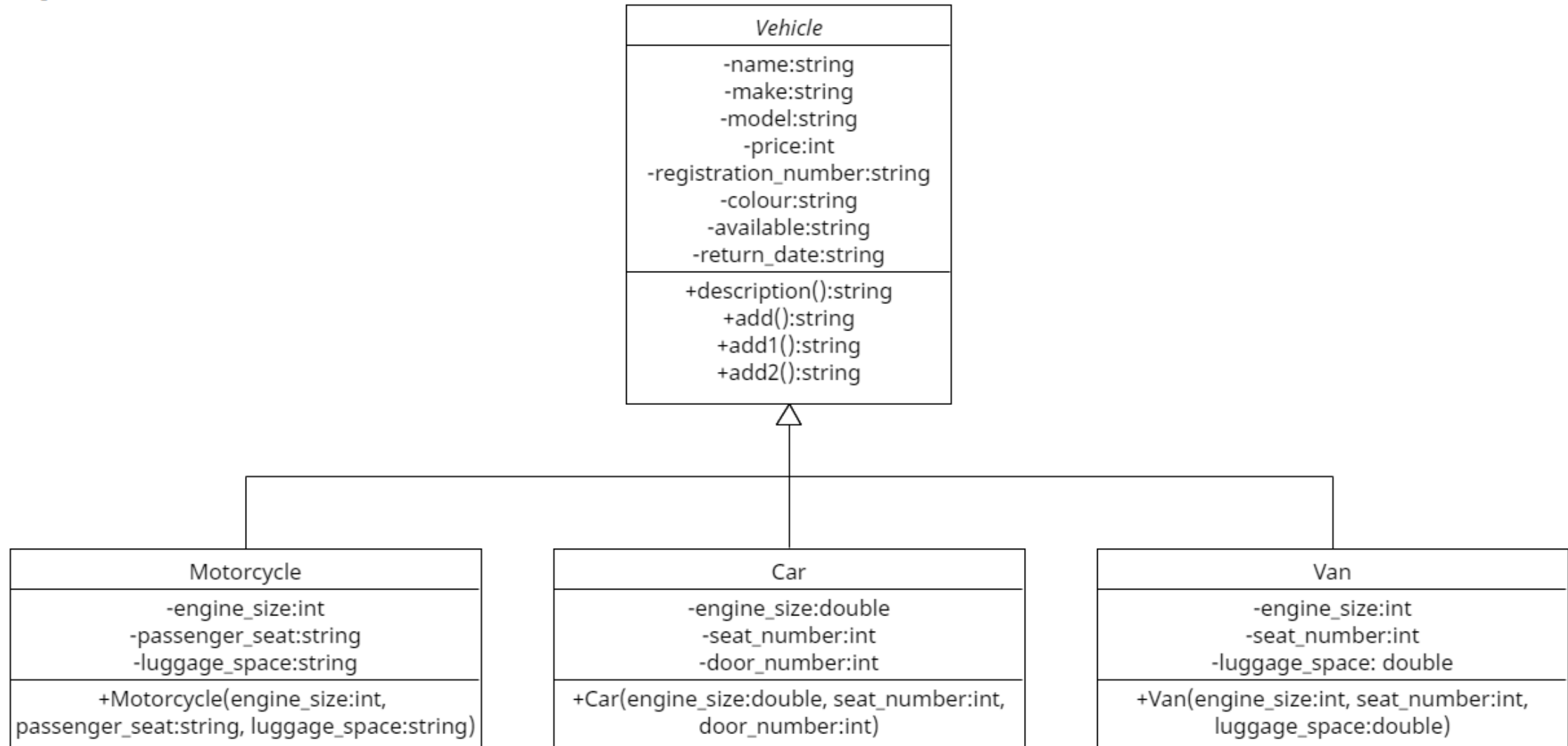
activitydiagram.uxf



# SOFTWARE DESIGN

## CLASS DIAGRAM

classdiagram.uxf



1 \_\_\_\_\_ File testing

```
$ ./tester
File exists
File does not exist, please try again
File does not exist, please try again
File does not exist, please try again
File does not exist, please try again
car:mercedes:e-class:£25:1.5L:4 seats:4 door:mercedes:white:Yes:N/A
bike:scott:spark:£25:15cc:Passenger seat:Has luggage:abc:blue:No:12/12/2003
van:Ford:fdfadffs:£8000:2L:9 seats:15.3 cubic meters luggage space:VAN123:white:Yes:N/A

Vehicle successfully deleted!
Vehicle successfully deleted!
Vehicle successfully deleted!=====
All tests passed (18 assertions in 4 test cases)
```

2 \_\_\_\_\_ Menu input testing

3 \_\_\_\_\_ Add a vehicle and display one vehicle testing

4 \_\_\_\_\_ Delete function testing

# SOFTWARE TESTING



# IMPLEMENTATION


























Approach

Makefile





































Version Control

# BITBUCKET REPOSITORY





Screenshot taken on the 12<sup>th</sup>  
January 2023

Author	Commit	Message	Date
 	<a href="#">4bf3769</a>	Test files	2 minutes ago
 	<a href="#">e8e939a</a>	final commit with comments	3 minutes ago
 	<a href="#">ff7b9d5</a>	Added different files for the classes	12 hours ago
 	<a href="#">1a5f71a</a>	Added lines to round double numbe...	2 days ago
 	<a href="#">17fc830</a>	Added variables to Vehicle class and...	2 days ago
 	<a href="#">c732305</a>	Added inheritance	3 days ago
 	<a href="#">da66803</a>	Added makefile	3 days ago
 	<a href="#">3f4eace</a>	Attempting to add inheritance in the...	3 days ago
 	<a href="#">352a220</a>	Added function and necessary chan...	3 days ago
 	<a href="#">c041415</a>	Added funtions to respective classes...	4 days ago
 	<a href="#">45e21e6</a>	Added messages, go back to main f...	5 days ago
 	<a href="#">a738312</a>	Modified read function to read only ...	5 days ago
 	<a href="#">44c2763</a>	Added elements to delete function t...	2023-01-05



			1f1238f	Added function to add vehicle detail...	2023-01-04
			4da5997	Added funtion to read a whole line f...	2023-01-04
			2ec563b	Added deletion of a specific line in d...	2023-01-03
			993d481	Added function to delete	2023-01-02
			b04e87e	Added funtion to add a vehicle in th...	2022-12-31
			bd38e31	Append and read from test file funti...	2022-12-29
			84cc45b	added function to write to a test file	2022-12-28
			e0e4c9a	Commit with added functions	2022-12-27
			1080b39	Commit with some syntax modificati...	2022-12-26
			b381edb	Added new file with Command Line ...	2022-12-26
			f49fe4e	fourth commit with van class and cp...	2022-12-21
			bbbb8b6	third commit with car class	2022-12-19

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	Author	Commit	Message	Date
		49fbd21	second commit	2022-12-17
		719b0ac	initial commit	2022-12-12

An abstract graphic consisting of two thin, dark grey lines intersecting. One line is oriented diagonally from the top-left towards the bottom-right, while the other is steeper, running from the top-left towards the bottom-right, crossing the first line.

# SOFTWARE DEMONSTRATION



# CONCLUSION