Master test plan for the course project SWE 326: Software Testing and Quality Assurance



Student Names and IDS

Mohammed Al-Salboukh #201671680

Hashim Al- Ghamdi #201617460

Salman Al- Ghamdi #201730930

Saleh Al- Maqwashy #201667240

History

Version	Date	Author Changes	
1.0	10/3/2020	All the team	Static code analysis
1.1	4/4/2020	All the team	System testing

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1. Introduction

1.1. The Project

The purpose of this project is to develop a cruise control system for cars. The cruise control system will improve drivers' experience on the road especially in long trips. The driver will be able to set the cruise speed and accelerate or decelerate to exit the cruise control. In addition, it will not interfere with the engine's routine functions like turning on and off.

1.2. Overview

1.2.1. Test Organization

The team is composed of four members. Each team member will act as a team leader for one phase (sub-phase). Provide the assigned team leaders (where applicable):

Phase 1: Mohammed Al Salboukh #201671680

Phase 2: Hashim Al- Ghamdi #201617460

Phase 3: Salman Al- Ghamdi #201730930

Phase 4: Saleh Al- Magwashy #201667240

1.2.2. System Under test (SUT)

Class Name	Number of Methods	Number of Lines of Code	Dependencies
CarSimulator.java	15	200	Java.awt, Runnable interface, appCruise package
SpeedController.java	6	50	Runnable intercace, appCruise package
CarSpeed.java (interface)	2	9	appCruise package
CruiseControl.java	4	119	appCruise package, java.awt, javafx.swing
CruiseDisplay.java	8	87	appCruise package, java.awt
Controller.java	7	57	appCruise package
Total: 6	Total: 42	Total: 522	

1.2.3. Testing types

We aim at conducting the following three types of testing:

- Static code analysis
- System testing
- Unit testing

1.2.4. Project Phases

Phase 1: Static Code Analysis

In this phase, the source code will go under static analysis manually and automatically.

Phase 2: System Testing

In this phase, system testing (black box testing) will be conducted on the system.

Phase 3: Unit Testing

In this phase, a unit test plan will be developed and executed using Junit and code cover tools.

Phase 4: Presentation

In this phase, a presentation will be given about what's been accomplished in this project and a discussion about the project itself.

1.2.5. Features to be tested

- We want to test that the system is really activated when clicked on "On" button, As required in R1.
- The speed is set properly if required (I.e. if the required new speed in in the bad range, then it is not being changed or set, like if it less than zero, which is not make since to have a speed of less than zero)
- The interface is working properly, that is the getSpeed() or setThrottle(double val) is not the same in different classes that is implemented the contract or the interface CarSpeed()
- That there is no infinite state between all the status of the speed.
- That when the method accelerate() is invoked, the speed changes by one more, not less or more than this.
- That the CC cannot be set for a speed less than 40km/h
- That when the user wants to turn the engine on, then that is done properly with respect to the
 display of the display, also to make sure the there is no such object in the engine, so that it is not
 get confused.

- That when the user wants to turn off the engine, then the value of the engine is set to nothing (I.e. null) so that the user does not confuse with the past object.
- We want also to make sure that when the user wants to decrease the speed (I.e. brake) then it is done quietly and not accidentally (I.e. from 10 to 0).
- We want also to test if any kind of the above status done, then it is updated consistently with the interface, as required in R6.
- Test that the user should be able to run turn the CC on and off with no limit, as required in R16.
- We want to test whether the user can turn the engine off anytime or not, as required in R5.
- That there is no behavior occurs when we click on the button "Off" and the CC is already off, as required in R14.
- We want also to test that the system GUI reflect the status of the CC (Green for on, Red for off), as required in R12

1.2.6. Features not to be tested

- Visual Testing for the entire graphical user interface
- Performance Testing for the software
- Security Testing for the software

1.1. Test Environment and Tools

This section describes the test environment and tools used during this project.

- Eclipse tool
- Checkstyle
- JUnit environment for Unit Testing.
- Codecover tool for execution coverage

1.2. Document Structure

This document follows (not strictly) the template for test plans in IEEE standard for software test documentation [IEEE829].

2. Static Code Analysis

2.1. Manual Code Inspection

For each class, fill in the table below.

Time Report: 6 hours

Time spent on Familiarization with the Code: 2 hours Time spent on Filling in Findings Report: 2 hours

Time spent on Actual Inspection: 2 hours

Findings:

#	Description	Line #	Class Name	Associated Checklist Item #
1	The functions in the code have to be all public if it will be used outside the class, otherwise it should be private and used 2 times at least. In drawOdo() and drawMark() they are used just once. Its good in arrangement perspective otherwise its just nightmare.	78, 106	CarSimu lator.java	1.1. Each required function is provided as a public method
2	The placement of the braces has not been put consistently, in many if statement throughout the code, the if statements don't have braces or bad location like line 35, 36 According to Oracle (1999), every if statement must have braces. https://www.oracle.com/technetwork/java/java-se/documentation/codeconventions-142311.html	35, 36, througho ut the code.	CarSimu lator.java	2.1. Placement of braces ({ and }) done consistently throughout.
3	Indentation have not been used in the required criteria.	36, 47, 171, 172, 176, 192, 193	CarSimu lator.java	2.2. Indentation is used, consistently, to indicate block structure within braces.
4	There is no block of comment that is describe the code in the class.	All the class	CarSimu lator.java	2.3. Block comments precede the code they describe.
5	In the method drawMark() the variable len changed to flen and used with no different.	93	CarSimula tor.java	2.4. The same names or abbreviations are used consistently for the same concept.

6	Naming convention of the variables does not follow the convention naming, offscreen; offscreensize, offgraphics, fspeed, brakepedal like theses variables.	94, 106 etc	CarSimula tor.java	2.5. Naming conventions for classes, class members (methods and variables).
7	The values when it access a public method should be checked. In instance if we have a method that is dealing with the GPA, the value of the GPA must be between 172-4 (in KFUPM). So this public method must not change the value of this variable. Also the variable's datatype must be checked (Through an exception to check the datatype). The variable <u>val</u> is violating our rules.	190, 191	CarSimula tor.java	3.1. Input parameters to public methods, and inputs read from files, are checked explicitly for all unacceptable values.
8	The input to the function must not be null.	66	CarSimula tor.java	3.3. Unacceptable public input produces a documented result
9	There is no comments in the locations where supposed to have comments like a specific algorithm. And this error along all the code.	Most of the class	CarSimula tor.java	7.1. Comments are provided whenever the purpose or reason for doing something in the code is obscure.
10	There are no comments in the methods.	23, 33, 46, 50, 69, 78etc	CarSimula tor.java	7.2. Comments are provided to describe every method, however briefly.
11	No comments for the relationship between the instance variables.	Beginnin g of the source code.	CarSimula tor.java	7.3. Comments are provided to describe the purpose, restrictions, and relationships

				between all instance variables in a class.
12	The names are not reflecting the meaning of them like drawOdo() method. Also the method setThrottle(), i	106	CarSimula tor.java	7.4. All names are chosen well and consistently to reflect their usage and purpose.
13	There are magic numbers in the code, used with no reason, like setSize(300,260);	25	CarSimula tor.java	7.5. Constants (static final) are used instead of magic numbers.
14	There is no toString method in the class that is illustrate what is the values of the object are.	At the end	CarSimula tor.java	10.1. Every class has a parameter less toString method which returns a String containing a dump or summary of an instance of the class.
15	The placement of the braces has not been put consistently, in many if statement throughout the code, the if statements don't have braces or bad location like line 53, 57 According to Oracle (1999), every if statement must have braces. https://www.oracle.com/technetwork/java/java-se/documentation/codeconventions-142311.html	53, 57	CruiseDis play.java	2.1. Placement of braces ({ and }) done consistently throughout.
16	cruiseOn is a local variable that does not follow Naming conventions (it should be cruise_on), botY is CLASS_CONSTANT that does not follow Naming conventions (it should be BOT_Y).	9, 10	CruiseDis play.java	2.5. Naming conventions for classes, class members (methods and variables), constants, and local variables, are

				distinct and consistent
17	The method drawImage has an input parameter of null.	62	CruiseDis play.java	3.3. Unacceptable public input produces a documented result (e.g. zero, null, the empty String) when there is no exception thrown.
18	The two if statements can be simplified.	53-60	CruiseDis play.java	6.2. Math expressions, control expressions (in ifs, whiles, fors, and switches) are as simple as possible.
19	No comments were provided for all methods in the class.	24, 41, 45, 65, 73, 78, 83	CruiseDis play.java	7.2. Comments are provided to describe every method, however briefly.
20	No comments were provided for some instance variables in the class.	8, 9, 11, 12	CruiseDis play.java	7.3. Comments are provided to describe the purpose, restrictions, and relationships between all instance variables in a class.
21	The name d was used for a variable of type Dimension this does not reflect the purpose of the variable; it should be screensize	25	CruiseDis play.java	7.4. All names are chosen well and consistently to

				reflect their usage and purpose.
22	The setSize method should have constant instead of direct numbers	16	CruiseDis play.java	7.5. Constants (static final) are used instead of magic numbers.
23	The CruiseDisplay class does not have toString method.	5	CruiseDis play.java	10.1. Every class has a parameterless toString method which returns a String containing a dump or summary of an instance of the class.
24	CruiseControl placment of {} is not consistent with the rest of the document.	25,30	CruiseCon trol.java	2.1. Placement of braces ({ and }) done consistently throughout.
25	Wrong indentation for the main method.	114-117	CruiseCon trol.java	2.2. Indentation is used, consistently, to indicate block structure within braces.
26	No block comments available in these lines.	33-34, 42, 95, 109	CruiseCon trol.java	2.3. Block comments precede the code they describe.
27	Inappropriate naming convention for local variables.	16,17	CruiseCon trol.java	2.5. Naming conventions for classes, class members (methods and variables),

				constants, and local variables, are distinct and consistent
28	Init method is too long (74 lines).	32-106	CruiseCon trol.java	6.1. No method is longer than one page (about 60 lines including comments).
29	Repeated code with little differences.	43-94	CruiseCon trol.java	6.4. Little private methods are preferred to repeating the same code over and over in different places.
30	No description for the method is provided.	32	CruiseCon trol.java	7.2. Comments are provided to describe every method, however briefly.
31	No description for the purpose, restrictions, or relationships is commented for the instance variables.	13-22	CruiseCon trol.java	7.3. Comments are provided to describe the purpose, restrictions, and relationships between all instance variables in a class.
32	The CruiseControl class does not have toString method.	118	CruiseCon trol.java	10.1. Every class has a parameterless toString method which returns a String containing a

				dump or summary of an instance of the class.
33	Braces should be directly after the constructer	12	Controller .java	2.1. Placement of braces ({ and }) done consistently throughout.
34	Braces should be directly after the if statement	16, 21, 33, 45, 54	Controller .java	2.1. Placement of braces ({ and }) done consistently throughout.
35	The placement of the braces has not been put consistently, in many if statement throughout the code, the if statements don't have braces or bad location like line 27 According to Oracle (1999), every if statement must have braces. https://www.oracle.com/technetwork/java/java-se/documentation/codeconventions-142311.html	27	Controller .java	2.1. Placement of braces ({ and }) done consistently throughout.
36	The entire class is not indented properly	3	Controller .java	2.2. Indentation is used, consistently, to indicate block structure within braces.
37	The indentation does not reflect block structure	13	Controller .java	2.2. Indentation is used, consistently, to indicate block structure within braces.
38	The indentation does not reflect block structure	17, 22, 34, 46, 55	Controller .java	2.2. Indentation is used, consistently, to indicate block structure within braces.

39	controlState should be control_state	8	Controller .java	2.5. Naming conventions for classes, class members (methods and variables), constants, and local variables, are distinct and consistent
40	No comments were provided for all methods in the class.	15, 20, 25, 32, 37, 44, 53	Controller .java	7.2. Comments are provided to describe every method, however briefly.
41	No comments were provided for some instance variables in the class.	9, 10	Controller .java	7.3. Comments are provided to describe the purpose, restrictions, and relationships between all instance variables in a class.
42	The name b was used for a variable of type boolean this does not reflect the purpose of the variable; it should be fixed	12	Controller .java	7.4. All names are chosen well and consistently to reflect their usage and purpose.
43	Variables should be private	4, 5, 6, 7	Controller .java	9.1. Instance variables are not public.
44	The Controller class does not have toString method.	3	Controller .java	Every class has a parameterless toString method which returns a

				String containing a dump or summary of an instance of the class.
45	No comments provided to describe the methods.	4,6	CarSpeed. java	7.2 Comments are provided to describe every method, however briefly.
46	No toString method provided.	8	CarSpeed. java	10.1 Every class has a parameterless toString method which returns a String containing a dump or summary of an instance of the class.
47	No indentation.	5- 11,14,15 etc	SpeedCon trol.java	2.2 Indentation is used, consistently, to indicate block structure within braces.
48	Comments do not precede code they're describing.	4,6,7,9, 38,42	SpeedCo ntrol.java	2.3 Block comments precede the code they describe.
49	No checking for unacceptable values for input parameters.	14	SpeedCon trol.java	3.1 Input parameters to public methods, and inputs read from files, are checked explicitly for all unacceptable values.

50	No comments provided to explain purpose of code.	28,42	SpeedCon trol.java	7.1 Comments are provided whenever the purpose or reason for doing something in the code is obscure.
51	No comments provided to describe the methods.	12,17,21 ,25,34,3 8	SpeedCon trol.java	7.2 Comments are provided to describe every method, however briefly.
52	No comment provided to describe the instance variables.	5	SpeedCon trol.java	7.3 Comments are provided to describe the purpose, restrictions, and relationships between all instance variables in a class.
53	Comparison to boolean variables in conditions.	23,27,36 ,41	SpeedCon trol.java	7.6 Booleans are not compared to boolean constants. (e.g. if (!found) is preferred to if (found == false)).
54	No toString method provided.	50	SpeedCon trol.java	10.1 Every class has a parameterless toString method which returns a String containing a dump or summary of an instance of the class.

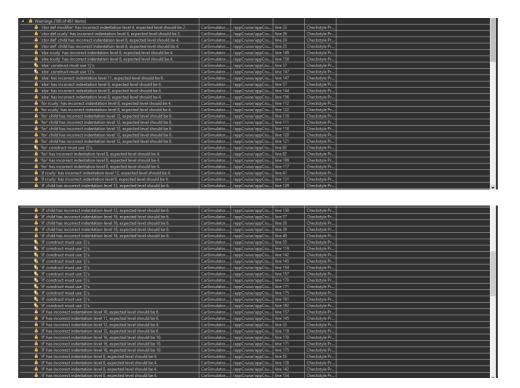
55	The if statement for setting a new throttle is not as simple as possible. Bad for understandability and reusability. In the method setThrottle(double val) it should have "else if()" statement instade of the second if.	189	CarSimula tor.java	6.2. Math expressions, control expressions (in ifs, whiles, fors, and switches) are as simple as possible.
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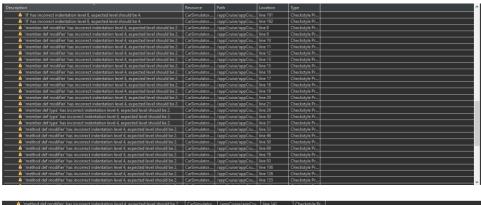
2.2. Automatic Static Code Analysis

2.2.1. Checkstyle It is a free static code analysis tool used to check source code.

2.2.2. Produced reports

CarSimulator:







CarSpeed:

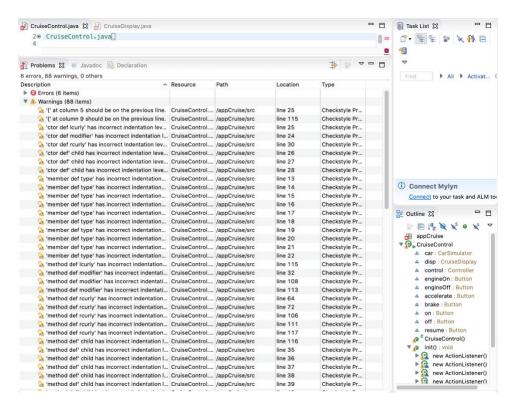
'method def modifier' has incorrect indentation level 4, expected level should be 2.	CarSpeed.java	/appCruise/appCru	line 5	Checkstyle Pr	
'method def modifier' has incorrect indentation level 4, expected level should be 2.	CarSpeed.java	/appCruise/appCru	line 7	Checkstyle Pr	

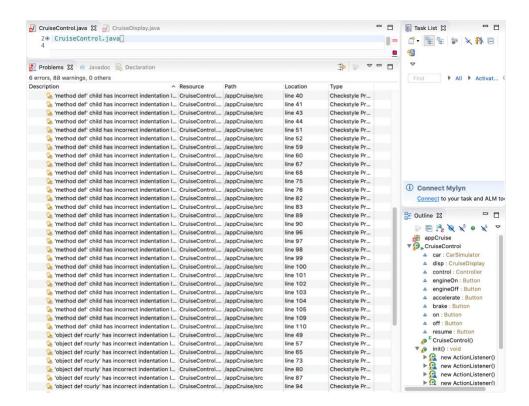
Controller:

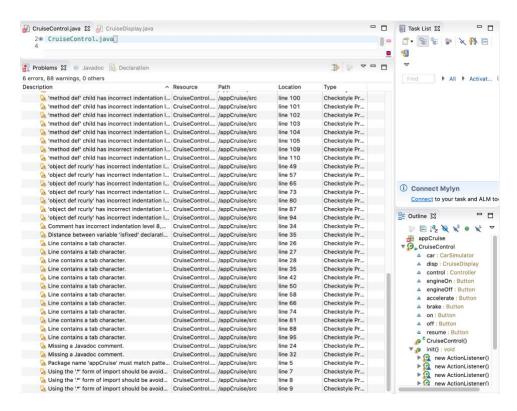


😘 'static' modifier out of order with the JLS suggestions.	Controller.java	/appCruise/appCru	line 6	Checkstyle
😘 'static' modifier out of order with the JLS suggestions.	Controller.java	/appCruise/appCru	line 7	Checkstyle
ArrayList is a raw type. References to generic type ArrayList <e> should be parameteriz</e>	BookList.java	/ICS201_LAB09/src	line 7	Java Probl
ArrayList is a raw type. References to generic type ArrayList <e> should be parameteriz</e>	Stack.java	/Practice/src	line 2	Java Probl
ArrayList is a raw type. References to generic type ArrayList <e> should be parameteriz</e>	Stack.java	/Practice/src	line 2	Java Prob
ArrayList is a raw type. References to generic type ArrayList <e> should be parameteriz</e>	TermSearch.ja	/GUI_Labs/src	line 57	Java Prob
N BST is a raw type. References to generic type BST <t> should be parameterized</t>	BSTTest.java	/Practice/src/ICS202	line 15	Java Prob
Comparable is a raw type. References to generic type Comparable T> should be para	DualQueue.ja	/ICS201_Final/src	line 4	Java Prob
Comparable is a raw type. References to generic type Comparable <t> should be para</t>	Student.java	/ICS201 LAB08/src	line 2	Java Prob
h ListView is a raw type. References to generic type ListView <t> should be parameterize</t>	Sorter.java	/GUI Labs/src	line 33	Java Prob
h ListView is a raw type. References to generic type ListView <t> should be parameterize</t>	Sorter.java	/GUI Labs/src	line 33	Java Prob
h ListView is a raw type. References to generic type ListView <t> should be parameterize</t>	TermSearch.ja	/GUI_Labs/src	line 31	Java Prob
h ListView is a raw type. References to generic type ListView <t> should be parameterize</t>	TermSearch.ja	/GUI Labs/src	line 32	Java Prob
Only one statement per line allowed.	Controller.java	/appCruise/appCru	line 13	Checksty
Only one statement per line allowed.	Controller.java	/appCruise/appCru	line 22	Checksty
Only one statement per line allowed.	Controller.java	/appCruise/appCru	line 34	Checksty
Only one statement per line allowed.	Controller.java	/appCruise/appCru	line 39	Checksty
Only one statement per line allowed.	Controller.java	/appCruise/appCru	line 46	Checksty
Only one statement per line allowed.	Controller.java	/appCruise/appCru	line 55	Checksty
Package name 'appCruise' must match pattern '^[a-z]+(\.[a-z][a-z0-9]*)*\$'.	Controller.java	/appCruise/appCru	line 1	Checksty
Resource leak: 'kb' is not closed at this location	FactoralTester	/ICE201 LAB4/src	line 13	Java Prob
Resource leak: 'ois' is never closed	Q3.java	/ICS201_EAD4/src	line 33	Java Prob
Resource leak: 'ois' is never closed	ReadFile.java	/Practice/src	line 13	Java Prob
Resource leak: 'scn' is never closed	Complex Test	/ICS201_HW2_Grad	line 6	Java Prob
1 The import com.sun.corba.se.spi.orbutil.fsm.lnput is never used	MathQuiz.java	/GUI_Labs/src	line 4	Java Prob
The import consum to basses probabilism in put is never used The import java.io. File Not Found Exception is never used				
			l line 2	
The import java.util is never used	WordCountTe Triangle.java	/ICS201_Final/src /ICE201_LAB4/src	line 2	Java Prob
The import java.util is never used To The serializable class User does not declare a static final serial/VersionUID field of type le	Triangle.java User.java	/ICE201_LAB4/src /Practice/src	line 1	Java Prob
The import java.util is never used The serializable class User does not declare a static final serialVersionUID field of type in the type VBoxBuilder is deprecated	Triangle.java User.java JavaFX_MyDi	/ICE201_LAB4/src /Practice/src /GUI_Labs/src	line 1	Java Prob Java Prob Java Prob
The import java.util is never used The serializable class User does not declare a static final serialVersionUID field of type to The type VBoxBuilder is deprecated The type VBoxBuilder is deprecated	Triangle.java User.java JavaFX_MyDi JavaFX_MyDi	/ICE201_LAB4/src /Practice/src /GUI_Labs/src /GUI_Labs/src	line 3 line 11 line 73	Java Prob Java Prob Java Prob Java Prob
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The import java.util is never used The serializable class User does not declare a static final serial/VersionUID field of type le The type VBoxBuilder is deprecated The type VBoxBuilder is deprecated The value of the local variable bin is not used The value of the local variable bin is not used	Triangle.java User.java JavaFX_MyDi JavaFX_MyDi BookList.java BookList.java	/ICE201_LAB4/src /Practice/src /GUI_Labs/src /GUI_Labs/src /ICS201_LAB09/src /ICS201_LAB09/src	line 3 line 11 line 73 line 65 line 99	Java Prob Java Prob Java Prob Java Prob Java Prob Java Prob
The import java.util is never used To The serializable class User does not declare a static final serial/VersionUID field of type le The type VBoxBuilder is deprecated To The type VBoxBuilder is deprecated To The value of the local variable bin is not used The value of the local variable bin is not used The value of the local variable lbl is not used	Triangle.java User.java JavaFX_MyDi JavaFX_MyDi BookList.java BookList.java TermSearch.ja	/ICE201_LAB4/src /Practice/src /GUI_Labs/src /GUI_Labs/src /ICI_C201_LAB09/src /ICS201_LAB09/src /GUI_Labs/src	line 3 line 11 line 73 line 65 line 99 line 27	Java Prob Java Prob Java Prob Java Prob Java Prob Java Prob Java Prob
The import java.util is never used The serializable class User does not declare a static final serialVersionUID field of type Is The type VBoxBuilder is deprecated The type VBoxBuilder is deprecated The value of the local variable bin is not used The value of the local variable bin is not used The value of the local variable bin is not used The value of the local variable bin is not used The value of the local variable bin so used The value of the local variable bin so used	Triangle.java User.java JavaFX_MyDi JavaFX_MyDi Bookl.ist.java Bookl.ist.java TermSearch.ja Sorter.java	/ICE201_LAB4/src /Practice/src /GUI_Labs/src /GUI_Labs/src /ICS201_LAB09/src /GUI_Labs/src /GUI_Labs/src /GUI_Labs/src	line 3 line 11 line 73 line 65 line 99 line 27 line 25	Java Prob Java Prob Java Prob Java Prob Java Prob Java Prob Java Prob Java Prob Java Prob
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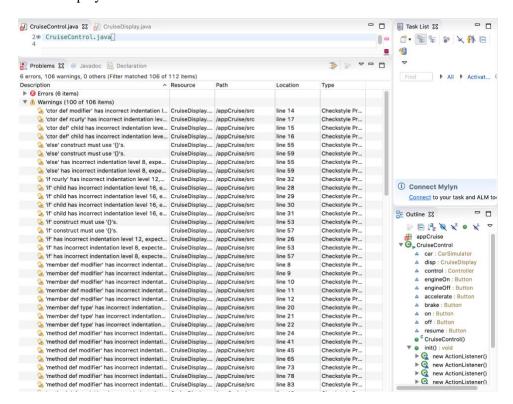
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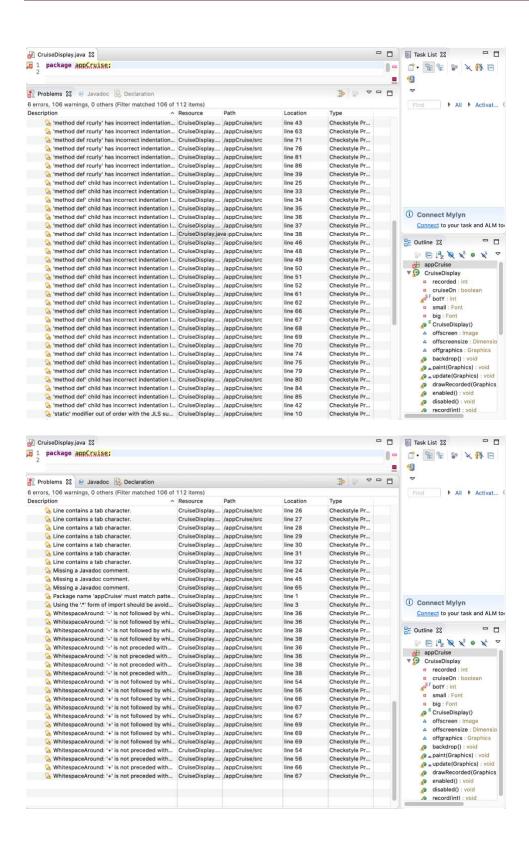




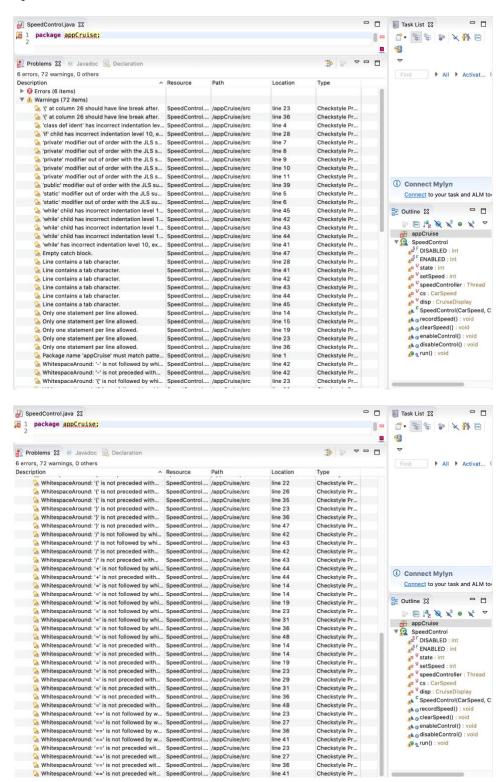


CruiseDisplay:





SpeedControl:



3. System Test

3.1. System Requirements

Requirements	Description
R1	To activate Cruise Control, the engine should be turned on.
R2	The activation of the CC will hold the vehicle speed at the selected value.
R3	When the CC is enabled, accelerating the vehicle, will disable the CC.
R4	When the CC is enabled, braking will disable the CC.
R5	The user can turn the engine off anytime. YES
R6	When CC is enabled, the CC GUI should store and display the correct speed. NO
R7	Pressing the resume button should set the CC to last fixed speed. YES
R8	When we turn the engine on, the CC should be off. YES
R9	When the engine is turned off, the CC should be turned off.
R10	The odometer should show the correct distance when the CC is enabled/disabled.
	YES
R11	When the engine is off, clicking on the CC on/off should have no impact. YES
R12	System should display the Cruise control status (Green for on, Red for off). YES
R13	When the CC is turned on, clicking on the button "on" should have no impact. NO
R14	When the CC is turned off, clicking on the button "off" should have no impact.
	YES
R15	The CC cannot be set for a speed less than 40km/h. NO
R16	The user should be able to run turn the CC on and off with no limit. YES
R17	When the engine is turned off then on, the CC should be turned off and showing the
	initial speed as zero. NO

3.2. System Test Cases

Design your test cases according to the following test case template

Test Case Title	Off engine when turned on
Test Case ID	TC001
Requirement IDs	R1
Author	Mohammed Al Salboukh

Description	An order to activate the Curious Control the engine should be off, so the CC will not be able to be activated or manipulated if the engine is off.
Initial State	INACTIVE curios, engine is off
Pre-conditions (if applicable)	Engine is off
Test steps (inputs, actions, etc.)	When the engine is off: • Turn on the engine
Expected Output	The engine be on
Expected Output	The engine be on
Priority (High/Medium/Low)	High
Test Type (Functional,	Functional
Performance, stress, etc.)	

Test Case Title	Held speed when CC Activated
Test Case ID	TC002
Requirement IDs	R2
Author	Mohammed Al Salboukh
Description	The core of this test case is to see whether the speed value be held
Initial State	INACTIVE curios, engine is on
Pre-conditions (if applicable)	The engine is on
Test steps (inputs, actions, etc.)	When the engine is off:
	Turn on the engine
	Activate the CC
	The speed then must be held to its velocity
Expected Output	Held engine velocity
Priority (High/Medium/Low)	High

Test Type (Functional,	Functional
Performance, stress, etc.)	

Test Case Title	Off CC when accelerating
Test Case ID	TC003
Requirement IDs	R3
Author	Mohammed Al Salboukh
Description	The main function of the CC is to hold the speed in a specific time and speed, if the user wants to speed up while the CC is active then the CC state will be changed to INACTIVE due to the need of the user.
Initial State	ACTIVE curios, engine is on
Pre-conditions (if applicable)	The engine is on and the CC is activated.
Test steps (inputs, actions, etc.)	 When the engine is off: Turn on the engine Activate the CC The speed then must be held to its velocity The user accelerates the speed The CC is turned off (INACTIVE)
Expected Output	The CC be on automatically
Priority (High/Medium/Low)	Medium
Test Type (Functional, Performance, stress, etc.)	Functional

Test Case Title	Off CC when breaking
Test Case ID	TC004
Requirement IDs	R4

Author	Mohammed Al Salboukh
Description	The main function of the CC is to hold the speed in a specific time and speed, if the user wants to hold on while the CC is active(break) then the CC state will be changed to INACTIVE due to the need of the user.
Initial State	ACTIVE curios, engine is on
Pre-conditions (if applicable)	The CC is ACTIVE
Test steps (inputs, actions, etc.)	 When the engine is off: Turn on the engine Activate the CC The speed then must be held to its velocity The user breaks the speed The CC is turned off (INACTIVE)
Expected Output	Off CC
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Test Case Title	engine off anytime
Test Case ID	TC005
Requirement IDs	R5
Author	Saleh AlMaqwashy
Description	Showing that the engine can be turned off at any monument by the user
Initial State	Ignition is enabled
Pre-conditions (if applicable)	The engine is on
Test steps (inputs, actions, etc.)	Turn off the engine, by clicking the "engineOff" button
Expected Output	Ignition is disabled

Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Test Case Title	CC GUI storing and displaying the correct speed
Test Case ID	TC006
Requirement IDs	R6
Author	Saleh AlMaqwashy
Description	To show that the CC GUI is storing and displaying the speed correctly
Initial State	Ignition is enabled, CC is disabled
Pre-conditions (if applicable)	The engine is on
Test steps (inputs, actions, etc.)	 Selecting a the wanted speed by clicking the accelerate button or the break button Activating the CC by clicking on "on" button
Expected Output	The wanted speed is stored and displayed on the CC GUI
Priority (High/Medium/Low)	Medium
Test Type (Functional, Performance, stress, etc.)	Functional

Test Case Title	Resuming CC to last fixed speed.
Test Case ID	TC007
Requirement IDs	R7
Author	Saleh AlMaqwashy
Description	Resuming the CC by setting the speed to the last stored speed in the CC
Initial State	Ignition is enabled, CC is disabled

Pre-conditions (if applicable)	The engine is on
Test steps (inputs, actions, etc.)	 Selecting a the wanted speed by clicking the accelerate button or the break button Activating the CC by clicking the "on" button Deactivating the CC by clicking the "off" button Changing the speed by clicking the accelerate button or the break button Clicking the "resume" button
Expected Output	The last stored speed in the CC is set on the speedometer
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Test Case Title	The engine on, the CC is off.
Test Case ID	TC008
Requirement IDs	R8
Author	Saleh AlMaqwashy
Description	Whenever the user turns on the engine, the CC should be disabled
Initial State	Ignition is enabled, CC is enabled
Pre-conditions (if applicable)	The engine is on
Test steps (inputs, actions, etc.)	 Turn off the engine by clicking the "engineOff" button Turn on the engine by clicking the "engineOn" button
Expected Output	The CC should be disabled
Priority (High/Medium/Low)	Medium
Test Type (Functional, Performance, stress, etc.)	Functional

Test Case Title	Off CC when the engine is off
Test Case ID	TC009
Requirement IDs	R9
Author	Hashim Al Ghamdi
Description	CC should be turned off when the user shuts off the engine.
Initial State	The engine is turned on and the CC is on
Pre-conditions (if applicable)	CC on, Engine on
Test steps (inputs, actions, etc.)	 Turn off engine Observe status of CC
Expected Output	Off CC
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Test Case Title	Showing of correct distance by odometer regardless of CC status.
Test Case ID	TC010
Requirement IDs	R10
Author	Hashim Al Ghamdi
Description	The CC should not affect the odometer's calculation of distance
	travelled by the car.
Initial State	The engine is turned on and the CC is on
Pre-conditions (if applicable)	CC on, Engine on
Test steps (inputs, actions, etc.)	Observe odometer with CC on
	2. Turn off CC
	3. Observe odometer with CC off
Expected Output	Unchanged and correct distance displayed on odometer.
Priority (High/Medium/Low)	High

Test Type (Functional,	Functional
Performance, stress, etc.)	

Test Case Title	CC ineffective while engine is off.
Test Case ID	TC011
Requirement IDs	R11
Author	Hashim Al Ghamdi
Description	The CC should not affect anything when the engine is turned off.
Initial State	Engine is turned off.
Pre-conditions (if applicable)	Engine off
Test steps (inputs, actions, etc.)	1. Attempt to turn on CC
	2. Observe system for any changes
	3. Attempt to turn off CC
	4. Observe system for any changes
Expected Output	Stable state of the car with no changes.
Priority (High/Medium/Low)	High
Test Type (Functional,	Functional
Performance, stress, etc.)	

Test Case Title	Display of CC status.
Test Case ID	TC012
Requirement IDs	R12
Author	Hashim Al Ghamdi
Description	The system should display an indication of CC status (green for on, red for off).
Initial State	Engine is on and the car has reached 40km/h or more.

Pre-conditions (if applicable)	Engine on, car has reached appropriate speed.
Test steps (inputs, actions, etc.)	 Turn on CC Observe system for green light indicating activation Turn off CC Observe system for red light indicating deactivation
Expected Output	Green light when CC is turned on and red light when CC is turned off.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Test Case Title	'On' button when CC is on.
Test Case ID	TC013
Requirement IDs	R13
Author	Salman Al Ghamdi
Description	When the CC is on, pressing the 'On' button should not have any impact in the system whatsoever.
Initial State	Engine is on.
Pre-conditions (if applicable)	The car has reached an appropriate speed, and the CC is on.
Test steps (inputs, actions, etc.)	 Press 'On' button multiple times while CC is active. Observe any potential changes.
Expected Output	No effect at all.
Priority (High/Medium/Low)	Medium
Test Type (Functional, Performance, stress, etc.)	Functional

Test Case Title	'Off' button when CC is off.
Test Case ID	TC014

Requirement IDs	R14					
Author	Salman Al Ghamdi					
Description	When the CC is off, pressing the 'Off' button should not have any impact in the system whatsoever.					
Initial State	Engine is on.					
Pre-conditions (if applicable)	The CC is off.					
Test steps (inputs, actions, etc.)	 Press 'Off' button multiple times while CC is inactive. Observe any potential changes. 					
Expected Output	No effect at all.					
Priority (High/Medium/Low)	Medium					
Test Type (Functional, Performance, stress, etc.)	Functional					

Test Case Title	CC cannot be set for less than 40km/h
Test Case ID	TC015
Requirement IDs	R15
Author	Salman Al Ghamdi
Description	The CC cannot be turned on for a speed less than 40km/h
Initial State	Engine is on.
Pre-conditions (if applicable)	-
Test steps (inputs, actions, etc.)	 Accelerate the car to a speed less than 40km/h Turn on the CC
Expected Output	CC is inactive.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Test Case Title	No limit for 'On/Off' buttons
Test Case ID	TC016
Requirement IDs	R16
Author	Salman Al Ghamdi
Description	Pressing 'On' or 'Off' should have no limit, either on number of
	clicks or the time to do so.
Initial State	Engine is on.
Pre-conditions (if applicable)	-
Test steps (inputs, actions, etc.)	1. Press 'On/Off' buttons multiple times.
	2. Observe any potential limitation.
Expected Output	No limitation at all.
Priority (High/Medium/Low)	Medium
Test Type (Functional,	Functional
Performance, stress, etc.)	

Test Case Title	CC initial value is always 0km/h.
Test Case ID	TC017
Requirement IDs	R17
Author	Salman Al Ghamdi
Description	Switching the engine off then on should result in resting the value for the CC to the initial value "0km/h".
Initial State	Engine is on.
Pre-conditions (if applicable)	CC has a value other than the initial value.
Test steps (inputs, actions, etc.)	 Switch the engine off. Switch it on. Observe the value of the CC.
Expected Output	The value is reset back to 0km/h

Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

3.3. Report on the Execution of System Test Cases

Fill in the Test Execution Report Template:

TC ID	Verdict (Pass/Fail/P ass with exception)	Comments (If fail or pass with exception (Actual output vs. Expected output)	Bug ID	Executio n Date	Author	Engineer
TC001	Pass			1/4/202 0	Mohammed Al Salboukh	Mohammed Al Salboukh
TC002	Pass with exception	The expected output that the velocity is shown and displayed in both the black right (cruise control) and the odometer.	B001	1/4/202 0	Mohammed Al Salboukh	Mohammed Al Salboukh
TC003	Pass			1/4/202 0	Mohammed Al Salboukh	Mohammed Al Salboukh
TC004	Fail	The expected value for this test case is that when break is fired the CC turned off. But the actual value is that the CC does not turned off, instead, it stays constant with the same velocity.	B002	1/4/202	Mohammed Al Salboukh	Mohammed Al Salboukh
TC005	Pass			2/4/202 0	Saleh AlMaqwashy	Saleh AlMaqwashy
TC006	Fail	The expected output wasn't shown, the CC GUI did not display the wanted speed correctly, the actual output is not the expected output	B003	2/4/202	Saleh AlMaqwashy	Saleh AlMaqwashy
TC007	Pass			2/4/202 0	Saleh AlMaqwashy	Saleh AlMaqwashy
TC008	Pass			2/4/202 0	Saleh AlMagwashy	Saleh AlMagwashy
TC009	Pass			2/4/202 0	Hashim Al Ghamdi	Hashim Al Ghamdi

TC ID	Verdict	Comments (If fail or Bug ID Ex	ocution	Author	Engine	oor
		CC is being reset to a value other than 0km/h.		0	Ghamdi	Ghamdi
TC017	Fail	The value displayed on the	B006	4/4/202	Salman Al	Salman Al
TC016	Pass			4/4/202 0	Salman Al Ghamdi	Salman Al Ghamdi
TC015	Fail	The value observed cannot be determined due to the difference between the value displayed in the odometer and the value displayed on the CC.	B005	4/4/202 0	Salman Al Ghamdi	Salman Al Ghamdi
TC014	Pass			4/4/202 0	Salman Al Ghamdi	Salman Al Ghamdi
TC013	Fail	Pressing on the 'On' button multiple times results on a noticeable decline in the speed value that is being displayed.	B004	4/4/202	Salman Al Ghamdi	Salman Al Ghamdi
TC012	Pass			2/4/202 0	Hashim Al Ghamdi	Hashim Al Ghamdi
TC011	Pass			2/4/202 0	Hashim Al Ghamdi	Hashim Al Ghamdi
TC010	Pass			2/4/202 0	Hashim Al Ghamdi	Hashim Al Ghamdi

	(Pass/Fail/Pass with exception)	Comments (If fail or pass with exception (Actual output vs. Expected output)	Execution Date	Author	Engineer
TC001	0				
TC002					
TC003					

		Bug List			
Bug ID	Test Case	Detailed Description	Severity (High/ Medium/low)	Data Found	Submitter
B001	TC002	It is expected that when the CC is activated the velocity is displayed in the odometer and in the right black digital	Medium	1/4/2020	Mohammed Al Salboukh

B002	TC004	page; however, it seems that there is inconsistency in the right digital speed, but the odometer worked as expected. The CC is not turned off when breaking the system. It is expected that the CC	High	1/4/2020	Mohammed Al Salboukh
B003	TC006	turned off when the break button is fired When the CC is enabled to the wanted speed the speed is set on the speedometer,	Medium	2/4/2020	Saleh Al Maqwashy
		but the CC GUI is not displaying the correct speed there is a difference (about +20)			
B004	TC013	Pressing on the 'On' button multiple times results on a noticeable decline -happens every 6-7 clicks approximately- in the speed value that is being displayed which results in incorrect values.	High	4/4/2020	Salman Al Ghamdi
B005	TC015	The test cannot be determined since the CC GUI is not displaying the correct speed and there is a huge noticeable difference (about +20) between the CC and the odometer.	Medium	4/4/2020	Salman Al Ghamdi
B006	TC017	When the engine is switched on after being off, the value displayed is around 30km/h which is not true since the CC have to be reset.	High	4/4/2020	Salman Al Ghamdi

		Bug List			
Bug ID	Test Case ID	·	Severity (High/ Medium/low)	Date found	Submitter
B001	TC002				
B002	TC003				