POLYTECHNIC UNIVERSITY OF MILAN

School of Industrial and Information Engineering

Computer Science and Engineering

Project of Software Engineering 2: MyTaxi Service

Integration Test Plan Document

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Chapter 3

Individual Steps & Test Description

3.1   Test case specifications

3.1.1   Integration test case I1

Test Case Identifier	I1T1
Test Item	Visitor managedBeans → Visitor Manager
Input Specification	Create typical Visitor managedBeans input
Output Specification	Check if the correct methods are called in the Visitor Manager
Environmental Needs	Client driver

3.1.2   Integration test case I2

Test Case Identifier	I2T1
Test Item	Passenger managedBeans → Passenger Manager
Input Specification	Create typical Passenger managedBeans input
Output Specification	Check if the correct methods are called in the Passenger Manager
Environmental Needs	Client driver

3.1.3   Integration test case I3

Test Case Identifier	I3T1
Test Item	TaxiDriver managedBeans → TaxiDriver Manager
Input Specification	Create typical TaxiDriver managedBeans input
Output Specification	Check if the correct methods are called in the TaxiDriver Manager
Environmental Needs	Client driver

3.1.4   Integration test case I4

Test Case Identifier	I4T1
Test Item	Developer managedBeans → Developer Manager
Input Specification	Create typical Developer managedBeans input
Output Specification	Check if the correct methods are called in the Developer Manager
Environmental Needs	Client driver

3.1.5 Integration test case I5

Test Case Identifier	I5T1
Test Item	Passenger Manager → Calls Manager
Input Specification	Create typical Passenger Manager input
Output Specification	Check if the correct methods are called in the Calls Manager
Environmental Needs	I2 succeded

Test Case Identifier	I5T2
Test Item	TaxiDriver Manager → Calls Manager
Input Specification	Create typical TaxiDriver Manager input
Output Specification	Check if the correct methods are called in the Calls Manager
Environmental Needs	I3 succeded

3.1.6 Integration test case I6

Test Case Identifier	I6T1
Test Item	Passenger Manager → Ride Manager
Input Specification	Create typical Passenger Manager input
Output Specification	Check if the correct methods are called in the Ride Manager
Environmental Needs	I2 succeded

Test Case Identifier	I6T2
Test Item	TaxiDriver Manager → Ride Manager
Input Specification	Create typical TaxiDriver Manager input
Output Specification	Check if the correct methods are called in the Ride Manager
Environmental Needs	I3 succeded

Test Case Identifier	I6T3
Test Item	Calls Manager → Ride Manager
Input Specification	Create typical Calls Manager input
Output Specification	Check if the correct methods are called in the Ride Manager
Environmental Needs	I2, I3, I5 succeded

3.1.7 Integration test case I7

Test Case Identifier	I7T1
Test Item	Visitor Manager → Java Persistence
Input Specification	Create typical Visitor Manager input
Output Specification	Check if the correct methods are called in the Persistence Module
Environmental Needs	I1 succeded

Test Case Identifier	I7T2
Test Item	Passenger Manager → Java Persistence
Input Specification	Create typical Passenger Manager input
Output Specification	Check if the correct methods are called in the Persistence Module
Environmental Needs	I2 succeded

Test Case Identifier	I7T3
Test Item	TaxiDriver Manager → Java Persistence
Input Specification	Create typical TaxiDriver Manager input
Output Specification	Check if the correct methods are called in the Persistence Module
Environmental Needs	I3 succeded

Test Case Identifier	I7T4
Test Item	Developer Manager → Java Persistence
Input Specification	Create typical Developer Manager input
Output Specification	Check if the correct methods are called in the Persistence Module
Environmental Needs	I4 succeded

Test Case Identifier	I7T5
Test Item	Calls Manager → Java Persistence
Input Specification	Create typical Calls Manager input
Output Specification	Check if the correct methods are called in the Persistence Module
Environmental Needs	I2, I3 and I5 succeded

Test Case Identifier	I7T6
Test Item	Ride Manager → Java Persistence
Input Specification	Create typical Ride Manager input
Output Specification	Check if the correct methods are called in the Persistence Module
Environmental Needs	I2, I3, I5 and I6 succeded

3.1.8   Integration test case I8

Test Case Identifier	I8T1
Test Item	Java Persistence → Visitor Manager
Input Specification	Create typical Java Persistence input
Output Specification	Check if the correct methods are called in the Visitor Manager
Environmental Needs	Database Driver

Test Case Identifier	I8T2
Test Item	Java Persistence → Passenger Manager
Input Specification	Create typical Java Persistence input
Output Specification	Check if the correct methods are called in the Passenger Manager
Environmental Needs	Database Driver

Test Case Identifier	I8T3
Test Item	Java Persistence → TaxiDriver Manager
Input Specification	Create typical Java Persistence input
Output Specification	Check if the correct methods are called in the TaxiDriver Manager
Environmental Needs	Database Driver

Test Case Identifier	I8T4
Test Item	Java Persistence → Developer Manager
Input Specification	Create typical Java Persistence input
Output Specification	Check if the correct methods are called in the Developer Manager
Environmental Needs	Database Driver

Test Case Identifier	I8T5
Test Item	Java Persistence → Calls Manager
Input Specification	Create typical Java Persistence input
Output Specification	Check if the correct methods are called in the Calls Manager
Environmental Needs	Database Driver

Test Case Identifier	I8T6
Test Item	Java Persistence → Ride Manager
Input Specification	Create typical Java Persistence input
Output Specification	Check if the correct methods are called in the Ride Manager
Environmental Needs	Database Driver

3.1.9 Integration test case I9

Test Case Identifier	I9T1
Test Item	Ride Manager → Passenger Manager
Input Specification	Create typical Ride Manager input
Output Specification	Check if the correct methods are called in the Passenger Manager
Environmental Needs	I8 succeded

Test Case Identifier	I9T2
Test Item	Ride Manager → TaxiDriver Manager
Input Specification	Create typical Ride Manager input
Output Specification	Check if the correct methods are called in the TaxiDriver Manager
Environmental Needs	I8 succeded

Test Case Identifier	I9T3
Test Item	Ride Manager → Calls Manager
Input Specification	Create typical Ride Manager input
Output Specification	Check if the correct methods are called in the Calls Manager
Environmental Needs	I8 succeded

3.1.10 Integration test case I10

Test Case Identifier	I10T1
Test Item	Calls Manager → Passenger Manager
Input Specification	Create typical Calls Manager input
Output Specification	Check if the correct methods are called in the Passenger Manager
Environmental Needs	I8 and I9 succeded

Test Case Identifier	I10T2
Test Item	Calls Manager → TaxiDriver Manager
Input Specification	Create typical Calls Manager input
Output Specification	Check if the correct methods are called in the TaxiDriver Manager
Environmental Needs	I8 and I9 succeded

3.1.11 Integration test case I11

Test Case Identifier	I11T1
Test Item	Visitor Manager → Visitor managedBeans
Input Specification	Create typical Visitor Manager input
Output Specification	Check if the correct methods are called in the Visitor managedBeans
Environmental Needs	I8 succeded

3.1.12   Integration test case I12

Test Case Identifier	I12T1
Test Item	Passenger Manager → Passenger managedBeans
Input Specification	Create typical Passenger Manager input
Output Specification	Check if the correct methods are called in the Passenger managedBeans
Environmental Needs	I8, I9 and I10 succeded

3.1.13   Integration test case I13

Test Case Identifier	I13T1
Test Item	TaxiDriver Manager → TaxiDriver managedBeans
Input Specification	Create typical TaxiDriver Manager input
Output Specification	Check if the correct methods are called in the TaxiDriver managedBeans
Environmental Needs	I8, I9 and I10 succeded

3.1.14   Integration test case I14

Test Case Identifier	I14T1
Test Item	Developer Manager → Developer managedBeans
Input Specification	Create typical Developer Manager input
Output Specification	Check if the correct methods are called in the Developer managedBeans
Environmental Needs	I8 succeded

3.2 Test procedures

3.2.1 Test procedure TP1

Test Procedure Identifier	TP1
Purpose	This test procedure verifies wether all the Managers of the Business Layer can successfully: • receive requests from the corresponding managedBeans • correctly elaborate those requests
Procedure Steps	Execute I1, I2, I3, I4

3.2.2 Test procedure TP2

Test Procedure Identifier	TP2
Purpose	This test procedure verifies wether the Passenger Manager and the TaxiDriver manager can successfully: • receive requests from the corresponding managedBeans • elaborate those requests • send back the right content to the managedBean
Procedure Steps	Execute I1, I2, I3, I4

Chapter 4

Tools & Test Equipment Required

Chapter 5

Program Stubs & Test Data Required