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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Integration Strategy

- 2.1 Entry Criteria
- 2.2 Elements to be Integrated
- 2.3 Integration Testing Startegy
- 2.4 Sequence of Component / Function Integration
- 2.4.1 Software Integration Sequence
- 2.4.2 Subsystem Integration Sequence

Individual Steps & Test Description

3.1 Test case specifications

Test Case Identifier	I1T1
Test Item	Visitor managed Beans \rightarrow Visitor Manager
Input Specification	Create typical Visitor managedBeans input
Output Specification	Check if the correct methods are called in the Vis-
	itor Manager
Environmental Needs	Client driver

Test Case Identifier	I2T1
Test Item	Passenger managed Beans \rightarrow Passenger Manager
Input Specification	Create typical Passenger managedBeans input
Output Specification	Check if the correct methods are called in the Pas-
	senger Manager
Environmental Needs	Client driver

Integration test case I3

That It are
Test Item TaxiDriver managedBeans \rightarrow TaxiDriver Mana
Input Specification Create typical TaxiDriver managedBeans input
Output Specification Check if the correct methods are called in
TaxiDriver Manager
Environmental Needs Client driver

Test Case Identifier	I4T1
Test Item	Developer managed Beans \rightarrow Developer Manager
Input Specification	Create typical Developer managedBeans input
Output Specification	Check if the correct methods are called in the De-
	veloper Manager
Environmental Needs	Client driver

Test Case Identifier	I5T1
Test Item	Passenger Manager \rightarrow 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 \rightarrow 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

Test Case Identifier	I6T1
Test Item	Passenger Manager \rightarrow 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 \rightarrow 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 \rightarrow 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

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

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

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

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

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

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

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

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

Test Case Identifier	I8T3
Test Item	Java Persistence \rightarrow 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 \rightarrow Developer Manager
Input Specification	Create typical Java Persistence input
Output Specification	Check if the correct methods are called in the De-
	veloper Manager
Environmental Needs	Database Driver

Test Case Identifier	I8T5
Test Item	Java Persistence \rightarrow 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 \rightarrow 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

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

Test Case Identifier	I9T2
Test Item	Ride Manager \rightarrow 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 \rightarrow 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

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

Test Case Identifier	I10T2
Test Item	Calls Manager \rightarrow 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

Test Case Identifier	I11T1
Test Item	$\mbox{Visitor Manager} \rightarrow \mbox{Visitor managedBeans}$
Input Specification	Create typical Visitor Manager input
Output Specification	Check if the correct methods are called in the Vis-
	itor managedBeans
Environmental Needs	I8 succeded

Test Case Identifier	I12T1
Test Item	Passenger Manager \rightarrow Passenger managed Beans
Input Specification	Create typical Passenger Manager input
Output Specification	Check if the correct methods are called in the Pas-
	senger managedBeans
Environmental Needs	I8, I9 and I10 succeded

Integration test case I13

Test Case Identifier	I13T1
Test Item	TaxiDriver Manager \rightarrow 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

Test Case Identifier	I14T1
Test Item	Developer Manager \rightarrow Developer managed Beans
Input Specification	Create typical Developer Manager input
Output Specification	Check if the correct methods are called in the De-
	veloper 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 Man-
	agers 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 Passen-
	ger Manager and the TaxiDriver manager can
	successfully:
	• receive requests from the corresponding managed Beans
	• elaborate those requests
	• send back the right content to the managed Bean
Procedure Steps	Execute I1, I2, I3, I4

Tools & Test Equipment Required

Program Stubs & Test Data Required