Chapter 1

1

	ciao	ciao
	ciao ciao ciao ciao ciao	ciao
existsAvailableTaxiDriver(request, zone):		
	ciao	ciao
	ciao	ciao
existsAvailableTaxiDriver(request, zone):	ciao	ciao
	ciao	ciao

asdoabdso asdonadon aosndaond

Chapter 2

2

existsAvailableTaxiDriver(request, zone):	ciao	ciao	
	ciao ciao ciao ciao ciao	ciao	
	ciao	ciao	
	ciao	ciao	
existsAvailableTaxiDriver(request, zone):	ciao	ciao	
	ciao	ciao	

Table 2.1: R, C ripple size

asdoabdso asdonadon aosndaond

Chapter 3

3

existsAvailableTaxiDriver(request, zone)	
I: an array of zones	O: the zone are inserted in the database
ciao ciao ciao ciao ciao	ciao
existsAvailableTaxiDriver(request, zone)	
I: an array of zones	O: the zone are inserted in the database
ciao ciao ciao ciao ciao	ciao

Table 3.1: R, C ripple size

asdoabdso asdonadon aosndaond

Chapter 4

Taxi Management System

(Caller, Called)

4.1   Request Management, Data Access Utilities

insertRequest()	
null reservations	
updateReservationList	

4.2   Reservation Management, Data Access Utilities

insertReservation(passengerId, origin, destination, date, time)	
a null parameter	NullPointerException
valid arguments	the reservation is inserted in the databases
updateReservationList	
null	NullPointerException
valid	inserted in DB

4.3 Taxi Management, Data Access Utilities Management

updateQueues	
a null parameter	NullPointerException
an array containing some null values	exception
array of queues, with some queues containing null values	NullPointerException
valid arguments	ok

updateLocation	
null	NullPointerException
valid	inserted in DB

updateTaxiStatus	
null	NullPointerException
valid	inserted in DB

4.4 Taxi Management, Location Management

isLocationInsideCity(location)	
a null parameter	NullPointerException
an invalid location (can a location be non existing?)	error
location outside city	false
location inside city	true

getZone(location)	
null	NullPointerException
an invalid location	error
a location outside the city	error
a location inside the city	ok

updateTaxiStatus	
null	NullPointerException
valid	inserted in DB

4.5 Reservation Management, Location Management

getZone(location)	
null	NullPointerException
an invalid location	error
a location outside the city	error
a location inside the city	ok

checkTaxiDriverLocation	
null	NullPointerException
an invalid location	error
a location outside the city	error
a location inside the city	ok

4.6 Reservation Management, Reservation Management

requestTaxi(passengerId, passengerLocation, destination)	
null	NullPointerException
invalid format for passengerId	error
invalid format for passenger-Location	error
invalid format for destination	error
invalid values (?)	error
passengerLocation outside city	error
valid values	ok

4.7 Request Management, Taxi Management

existsAvailableTaxiDriver(request, zone)	
null	NullPointerException
invalid fields of request (???)	error
invalid format for passenger-Location	error
invalid format for destination	error
invalid values (?)	error
passengerLocation outside city	error
valid values	ok

getETA	
invalid values (?)	error

taxiDriverDropped	
invalid values (?)	error

Chapter 5

System Administration

5.1 Zone Management, Data Access Utilities

| insertZones	
I: an array of zones	O: the zone are inserted in the database
a null value	error
an array containing some null values	exception
valid arguments	the reservation is inserted in the databases
updateZone a zone	
null	NullPointerException
valid	inserted in DB
(?) updateTaxiDriver	
null	NullPointerException
valid	inserted in DB
(?)insertSingleZone	
(?) getZoneList	
(?) insertNewPassenger	
(?) updatePassengerData	
(?) logins	
(?) getPassengerPassword	

5.2 API Permission Management, Data Access Utilities

...

5.3   Taxi Driver Management

5.3.1   Data Access Utilities

insertTaxiDrivers	
a null parameter	NullPointerException
an array containing some null values	exception
valid arguments	the reservation is inserted in the databases
(for single taxi driver) insertTaxiDriver	
null	NullPointerException
valid	inserted in DB
(?) updateTaxiDriver	
null	NullPointerException
valid	inserted in DB

Chapter 6

Account Management
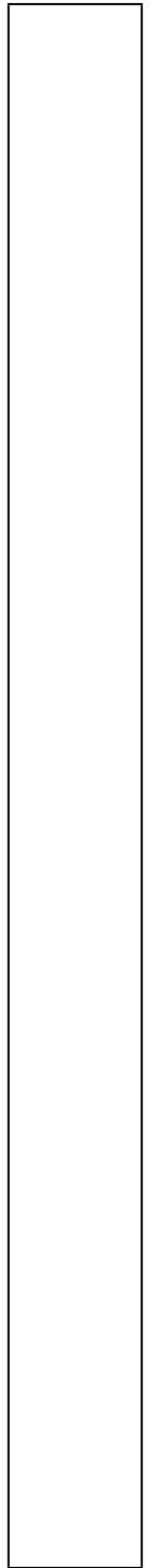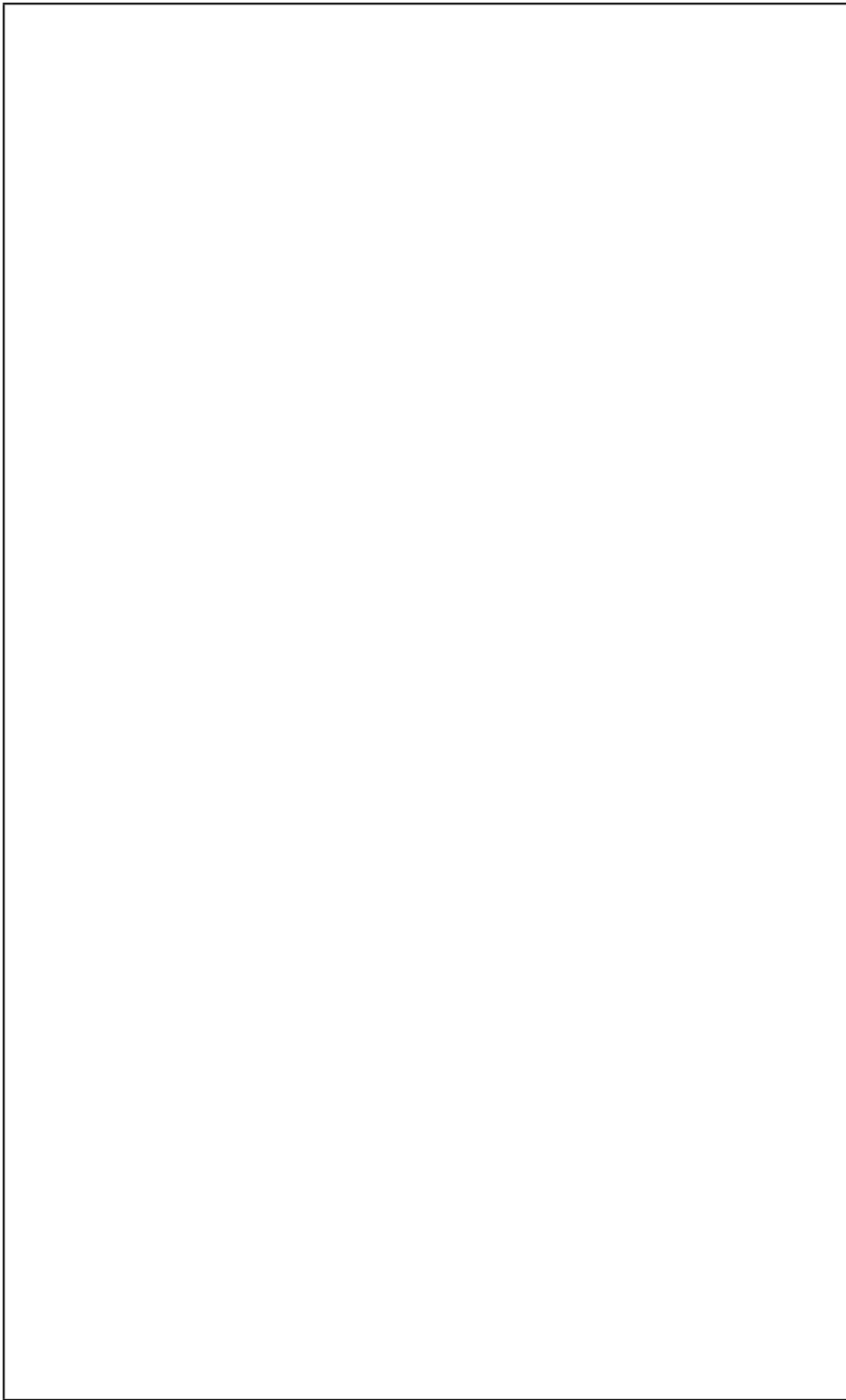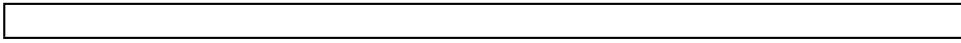
Chapter 7

Component-Component Integration

7.1 Remote Services Interface, Taxi Management System

requestTaxi(passengerId, passengerLocation, destination)	
a null parameter	NullPointerException
a passengerId not conform with the specifics	exception
a passengerLocation outside the city	exception
an passengerLocation whose address doesn't exist	exception
a destination ...	...
valid arguments	ok
endRide(taxiId, currentLocation)	
a null parameter	NullPointerException
invalid taxiId	error
non existing taxiId	error
non existing currLOc	error
endRide(taxiId, currentLocation)	
null	error
invalid taxiId	error
non existing taxiId	error
invalid currLoc	
non existing currLOc	
togglePressed(taxiDriverId)	

invalid	
null	
non existing	

7.2 Remote Services Interface, Account Management

(?)insertPassenger
(?)updatePassenger
(?)deletePassenger

7.3 Remote Services Interface, System Administration

checkPassword(adminId, password)	
null	
invalid	
non-existing adminId	
verifyPermission(appId, operation)	
null	
invalid	
non existing appId	
operation not existing(???)	
permission not given to appId for the operation	
permission granted	
sendData(data)	
invalid format	
null	
wrong data	
insertZones	
invalid format	
null	
wrong data	
askZoneList	
updateZone	
invalid format	
null	
wrong data	
insert,	
invalid format	
null	
wrong data	