



Project Phase III: A Simple RESTful Web Service
Development with Spring Boot and Automated
Software Testing

Test Report

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ID	Description	Input Test Data	Pre-condition (if any)	Expected Output	Pass/Fail
1	Unit Test for longest Concert We have applied 2 tests, first test checks the size of the result list and second test checks the result value (duration)	<ul style="list-style-type: none"> Tarkan Concert with duration 3 Ajdar Concert with duration 2 Murat Boz Concert with duration 3 	-	Result list size=2 Result value (duration)= 3	Pass Criteria for the result list size= 2 and duration=3 Other than these results test fails
2	Unit Test for longest Concert We have applied 2 tests, first test checks the size of the result list and second test checks the result value (number of performers)	<ul style="list-style-type: none"> Show1 with 2 performers Show2 with 3 performers 	-	Result list size=1 Result value (performers)= 3	Pass Criteria for the result list size= 1 and performers=3 Other than these results test fails
3	Integration Test for longest Concert	<ul style="list-style-type: none"> Nafiz Dölek Concert with duration=0 Fikri Karayel Concert with duration=2 Manga Concert with duration=3 Morveötesi Concert with duration=3 	Necessary data should be added to database before the test	Result list size=2	Pass Criteria for the result list size= 2. Other than this result test fails
4	Integration Test for	Summer festival with five festival	Necessary data should	Result List size= 1	Pass Criteria for the result

	popular Festivals	runs and Grape festival with 3 festivalruns	be added to database before the test		list size= 1. Other than this result test fails
5	Integration Test for Organisers with multiple runs	-	-	-	Error in the testing stage
6	Integration Test for max Performers	Dance Show with 2 performers and Boxing Match with 3 performers	Necessary data should be added to database before the test	Result list size=1	Test fails because the result list size value is not equal to 1

ID1

```
when(concertRepository.findAll()).thenReturn(concerts);
List<Concert> concertsList = concertService.longestConcert();
assertEquals( expected: 2, concertsList.size());
assertEquals( expected: 3, concertsList.get(0).getDuration());
```

✓ Test Results	478 ms
✓ ConcertServiceTest	478 ms
✓ longestConcert()	478 ms

So Test ID#1 passes.

ID2

```
when(showRepository.findAll()).thenReturn>Showss);  
List<Shows> showList = showService.maxPerformers();  
assertEquals( expected: 1, showList.size());  
assertEquals( expected: 3, showList.get(0).getPerformers().size());
```

✓ Test Results	478 ms
✓ ShowServiceTest	478 ms
✓ maxPerformers()	478 ms

So Test ID#2 passes.

ID3

eventid	date	description	name	festivalrun_festivalrunid	duration
1	2022-05-14 14:44:40	Live Concert	Nafiz Dölek Konseri	NULL	0
2	2022-05-14 14:44:40	Standup	Cem Yılmaz event	NULL	0
3	2022-05-14 14:44:40	Standup	Cem Yılmaz event	NULL	0
4	2022-05-14 14:44:40	Strawberry gathering from village of Yesilirmak	Strawberry Gathering	NULL	0
5	2022-06-14 14:44:40	Summer Fest 2022	Fikri Concert	NULL	2
6	2022-12-14 13:44:40	CityFest 2022	Manga Concert	NULL	3
7	2022-07-14 14:44:40	CityFest 2022	Morveötesi Concert	NULL	3
NULL	NULL	NULL	NULL	NULL	NULL

Figure 1: Event Table

Result Grid		Filter Row
performer	eventid	
Nafiz Dölek	1	
Fikri Karayel	5	
Manga	6	
Morveötesi	7	
NULL	NULL	

Figure 2: Concert Table

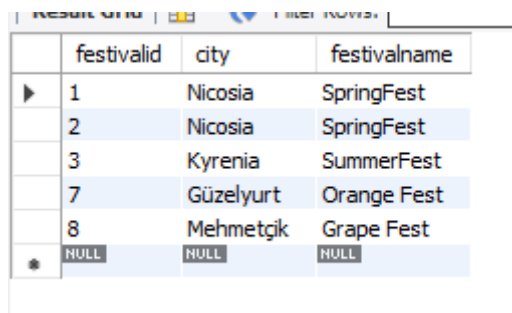
✓ Test Results	304 ms
✓ ConcertControllerTest	304 ms
✓ longestConcert()	304 ms

So Test ID#3 passes.

ID4

	festivalrunid	date	duration	name	festival_festivalid
	20	2022-06-10 01:42:03	3	Orange Fest	3
	21	2022-06-10 01:42:03	3	Summer Fest20	3
	22	2022-06-10 01:42:03	3	Summer Fest21	3
	23	2022-06-10 01:42:03	3	Summer Fest22	3
	24	2022-06-10 01:42:03	3	Summer Fest23	3
	25	2022-06-10 01:42:03	3	Grape Fest14	8
	26	2022-06-10 01:42:03	3	Grape Fest15	8
	27	2022-06-10 01:42:03	3	Grape Fest16	8

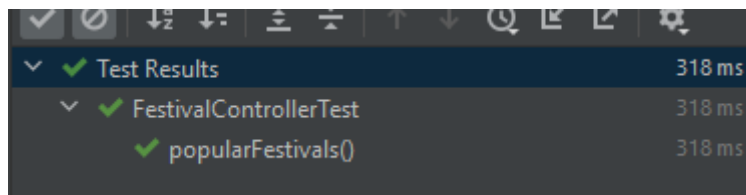
Figure 3: Festivalrun Table



The screenshot shows a database table with columns: festivalid, city, and festivalname. The data is as follows:

festivalid	city	festivalname
1	Nicosia	SpringFest
2	Nicosia	SpringFest
3	Kyrenia	SummerFest
7	Güzelyurt	Orange Fest
8	Mehmetgik	Grape Fest
NULL	NULL	NULL

Figure 4: Festival Table



The screenshot shows test results for 'FestivalControllerTest' and its method 'popularFestivals()'. Both passed successfully in 318 ms.

Test Results	318 ms
✓ FestivalControllerTest	318 ms
✓ popularFestivals()	318 ms

So Test ID#4 passes.

ID6

✖ Test Results 290 ms

▼ ✖ ShowControllerTest 290 ms

✖ maxPerformers() 290 ms

```
Hibernate: select performers0_.shows_eventid as
Hibernate: select performers0_.shows_eventid as
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org.opentest4j.AssertionFailedError:
Expected :3
Actual   :1
<Click to see difference>
```

	performerid	name	surname	showw_eventid
▶	7	Orlando	Bloom	NULL
	9	Johnny	Depp	12
	10	Cristiano	Ronaldo	12
	11	Mike	Tyson	13
	12	Tyson	Fury	13
	13	Connor	Mcgregor	13
*	NULL	NULL	NULL	NULL

Figure 5: Performer Table

	eventid	date	description	name	festivalrun_festivalrunid	duration
▶	1	2022-05-14 14:44:40	Live Concert	Nafiz Dolek Konseri	NULL	0
	2	2022-05-14 14:44:40	Standup	Cem Yilmaz event	NULL	0
	3	2022-05-14 14:44:40	Standup	Cem Yilmaz event	NULL	0
	4	2022-05-14 14:44:40	Strawberry gathering from village of Yesilirmak	Strawberry Gathering	NULL	0
	5	2022-06-14 14:44:40	Summer Fest 2022	Fikri Concert	NULL	2
	6	2022-12-14 13:44:40	CityFest 2022	Manga Concert	NULL	3
	7	2022-07-14 14:44:40	CityFest 2022	Morveötesi Concert	NULL	3
	8	2022-06-10 01:42:03	Standup shows by famous people	StandupShow	NULL	0
	12	2022-06-10 01:42:03	Dance shows by famous people	DanceShow	NULL	0
	13	2022-06-10 01:42:03	Boxing Match	Box Match	NULL	0
*	NULL	NULL	NULL	NULL	NULL	NULL

Figure 6: Event Table