

HappyTripEnterprise 1.0.0-BUILD-SNAPSHOT

Sonar way 2015-06-15



Table of contents

HappyTripEnterprise	Page 1
1.1. Report Overview1.2. Violations Analysis1.3. Violations Details	
2. contract	Page 6
2.1. Report Overview2.2. Violations Analysis2.3. Violations Details	
3. happytrip	Page 9
3.1. Report Overview3.2. Violations Analysis3.3. Violations Details	
4. gateway	Page 13
4.1. Report Overview4.2. Violations Analysis4.3. Violations Details	
5. happymiles	Page 16
5.1. Report Overview5.2. Violations Analysis5.3. Violations Details	



1. HappyTripEnterprise

This chapter presents an overview of the project measures. This dashboard shows the most important measures related to project quality, and it provides a good starting point for identifying problems in source code.

1.1. Report Overview

Static Analysis

Lines of code	Comments	Complexity
8 ,044 ↓	3.5%	1.5
28 packages	289 comment lines	6.9 /class
158 classes		1,083 decision points
707 methods		
1.8% duplicated lines		

Dynamic Analysis

Code Coverage	Test Success
0.0%	N/A
0 tests	N/A failures
	N/A errors

Coding Rules Violations

Rules Co	mpliance	Violations	
92.3%	1	346	1

Most violated rules		
Avoid Catching Throwable	3	
Security - Array is stored directly	1	
If Stmts Must Use Braces	54	
System Println	18	
Avoid Print Stack Trace	17	



Most violated files		
AirlineDao	18	
FlightBookingServiceImpl	18	
JdbcGenericDao	17	
StringUtil	17	
ProfileController	15	

Most complex files		
FlightBookingServiceImpl	68	
AdminController	45	
CreditCard	39	
City	37	
AdminServiceImpl	29	

Most duplicated files		
JsonAirlineDto	30	
AirlineReport	30	
FlightPaymentController	27	
AirlineDto	22	
StartupController	17	

Rule Avoid Catching Throwable	
File	Line
AdminController	322
FlightServlet 77	
PaymentGatewayController	36

Rule	Security - Array is stored directly	
File		Line
Backup		47

Rule	If Stmts Must Use Braces	
------	--------------------------	--



File	Line
CreditCard	135, 137, 139, 143, 145, 148, 150, 153, 155, 158, 160, 162, 164
Airline	101, 103, 105, 109, 111
City	90, 92

Rule System Println	
File	Line
JqgridAirlineController	110
JqgridCityController	111
RegisterController	65
StringUtil	85, 86, 94, 98, 101
PaymentGatewayController	31, 34
StartupController	36, 64
CreditCardPaymentService	36
MilesController	38, 43, 46
StartupController	39, 68

Rule Avoid Print Stack Trace	
File	Line
AdminController	124, 323
ContentController	26
HomeController	77
ProfileController	123, 184, 188, 208
StartupController	82
FlightBooking	165
FlightBookingServiceImpl	182
HappyTripMilesService	24
PaymentServiceImpl	31
FlightServlet	78
PaymentGatewayController	37
StartupController	43, 46

Rule	Close Resource	
File		Line



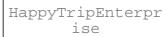
JdbcGenericDao	38, 47, 48, 49, 71, 72, 73, 93, 94, 95, 115, 117, 131, 133
----------------	--

Rule Unused Private Field		
File	Line	
AdminController	51, 54	
ProfileController	84	
StartupController	45, 48	
FlightConfirmationController	63	
JpaAirlineDao	16	
JpaBakupDao	15	
JpaCityDao	17	
JpaRouteDao	18	
JpaStateDao	17	
AdminServiceImpl	55, 58	
FlightBookingServiceImpl	66	

Rule Integer Instantiation	
File	Line
JqgridAirlineController	126
JqgridCityController	127
StringUtil	90, 91
StartupController	66, 67, 65, 66, 67

Rule Visibility Modifier	
File	Line
JqgridAirlineController	35, 36
JagridCityController	45, 46
ResponseDto	8, 9
AirlineServiceImpl	25
CityServiceImpl	18

Rule	Avoid Duplicate Literals	
File		Line
AdminC	ontroller	163, 164





Sonar PDF Report

ProfileController	110
ReportController	34
FlightPaymentController	77, 78
JdbcGenericDao	85
Airline	26



2. contract

2.1. Report Overview

Static Analysis

Lines of code	Comments	Complexity
333	0.6%	3.0
4 packages	2 comment lines	6.8 /class
8 classes		54 decision points
18 methods		
0.0% duplicated lines		

Dynamic Analysis

Code Coverage	Test Success
0.0%	N/A
0 tests	N/A failures
	N/A errors

Coding Rules Violations

Rules Compliance	Violations
84.1%	20

Most violated rules		
If Stmts Must Use Braces	13	
Unused local variable	2	
Unused formal parameter	1	
Cyclomatic Complexity	1	
Magic Number	2	

Most violated files	
CreditCard	14
StringUtil	6



Most complex files		
CreditCard	39	
StringUtil	12	
HappyMile	3	

Most duplicated files	
No duplications	

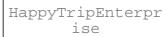
Rule If Stmts Must Use Braces	
File	Line
CreditCard	135, 137, 139, 143, 145, 148, 150, 153, 155, 158, 160, 162, 164

Rule Unused local variable		
File		Line
StringUt	il	45, 67

Rule	Unused formal parameter	
File		Line
StringUtil 53		

Rule	Rule Cyclomatic Complexity	
File		Line
CreditCa	ard	133

Rule	Magic Number	
File		Line
StringUt	il	42, 64





Rule	Unused Imports	
File		Line
StringUt	il	3



3. happytrip

3.1. Report Overview

Static Analysis

Lines of code	Comments	Complexity
7,385	3.5%	1.5
19 packages	265 comment lines	6.9 /class
143 classes		988 decision points
663 methods		
1.9% duplicated lines		

Dynamic Analysis

Code Coverage	Test Success
0.0%	N/A
0 tests	N/A failures
	N/A errors

Coding Rules Violations

Rules Co	mpliance	Violations	;
93.3%	1	295	1

Most violated rules	
Avoid Catching Throwable	2
Security - Array is stored directly	1
If Stmts Must Use Braces	41
Close Resource	14
Avoid Print Stack Trace	14

Most violated files	
AirlineDao	18
FlightBookingServiceImpl	18



JdbcGenericDao	17
StringUtil	17
ProfileController	15

Most complex files		
FlightBookingServiceImpl	68	
AdminController	45	
City	37	
AdminServiceImpl	29	
Airline	28	

Most duplicated files		
JsonAirlineDto	30	
AirlineReport	30	
FlightPaymentController	27	
AirlineDto	22	
StartupController	17	

Rule Avoid Catching Throwable	
File	Line
AdminController	322
FlightServlet	77

Rule	Security - Array is stored directly	
File		Line
Backup		47

Rule	If Stmts Must Use Braces	
File		Line
Airline		101, 103, 105, 109, 111
City		90, 92, 94, 98, 100, 103, 105



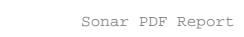
Sonar PDF Report

Flight	26, 28, 30, 34, 36
FlightBooking	182, 184, 186

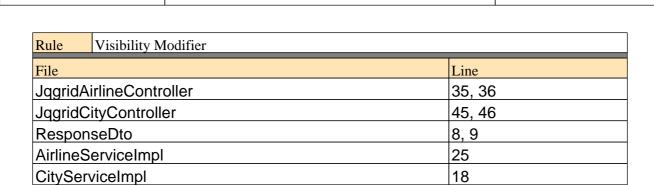
Rule Close Resource	
File	Line
JdbcGenericDao	38, 47, 48, 49, 71, 72, 73, 93, 94, 95, 115, 117, 131, 133

Rule Avoid Print Stack Trace	
File	Line
AdminController	124, 323
ContentController	26
HomeController	77
ProfileController	123, 184, 188, 208
StartupController	82
FlightBooking	165
FlightBookingServiceImpl	182
HappyTripMilesService	24
PaymentServiceImpl	31
FlightServlet	78

Rule Unused Private Field	
File	Line
AdminController	51, 54
ProfileController	84
StartupController	45, 48
FlightConfirmationController	63
JpaAirlineDao	16
JpaBakupDao	15
JpaCityDao	17
JpaRouteDao	18
JpaStateDao	17
AdminServiceImpl	55, 58
FlightBookingServiceImpl	66



sonar



Rule System Println	
File	Line
JqgridAirlineController	110
JqgridCityController	111
RegisterController	65
StringUtil	85, 86, 94, 98, 101

Rule Avoid Duplicate Literals	
File	Line
AdminController	163, 164
ProfileController	110
ReportController	34
FlightPaymentController	77, 78
JdbcGenericDao	85
Airline	26

Rule Parameter Name	
File	Line
AirlineService	13, 19
CityService	12, 18
AirlineServiceImpl	28
CityServiceImpl	21



4. gateway

4.1. Report Overview

Static Analysis

Lines of code	Comments	Complexity
232	6.5%	1.4
4 packages	16 comment lines	5.8 /class
5 classes		29 decision points
21 methods		
0.0% duplicated lines		

Dynamic Analysis

Code Coverage	Test Success
0.0%	N/A
0 tests	N/A failures
	N/A errors

Coding Rules Violations

Rules Compliance	Violations
83.2%	17

Most violated rules	
Avoid Catching Throwable	1
System Println	5
Avoid Print Stack Trace	2
Integer Instantiation	2
Avoid commented-out lines of code	1

Most violated files	
StartupController	9
PaymentGatewayController	6



JpaCreditCardDao	1
CreditCardPaymentService	1

Most complex files	
CreditCardPaymentService	10
JpaCreditCardDao	7
PaymentGatewayController	6
StartupController	6

Most duplicated files
No duplications

Rule	Avoid Catching Throwable	
File Line		
PaymentGatewayController 36		36

Rule System Println	
File Line	
PaymentGatewayController	31, 34
StartupController	36, 64
CreditCardPaymentService	36

Rule Avoid Print Stack Trace		
File Line		
PaymentGatewayController	37	
StartupController	43	

Rule Integer Instantiation		
File Line		
StartupController		66, 67



Sonar PDF Report

Rule	Avoid commented-out lines of code	
File Line		
PaymentGatewayController 3		

Rule Magic Number		
File Line		
StartupController	60, 61, 62, 63	

Rule Unused Imports	
File Line	
PaymentGatewayController 10	
JpaCreditCardDao 10	



5. happymiles

5.1. Report Overview

Static Analysis

Lines of codeCommentsComplexity946.0%2.41 packages6 comment lines6.0 /class2 classes12 decision points

0.0% duplicated lines

5 methods

Dynamic Analysis

Code Coverage Test Success 0.0% N/A

0 tests N/A failures N/A errors

Coding Rules Violations

Rules Compliance Violations

70.2% 14

Most violated rules		
System Println	5	
Integer Instantiation	3	
Avoid Print Stack Trace	1	
Magic Number	1	
Unused Imports	4	

Most violated files		
StartupController	11	
MilesController	3	



Most complex files	
MilesController	6
StartupController	6

Most duplicated files	
No duplications	

Rule System Println		
File	Line	
MilesController	38, 43, 46	
StartupController	39, 68	

Rule Integer Instantiation		
File	Line	
StartupController	65, 66, 67	

Rule	Avoid Print Stack Trace		
File		Line	
StartupController		46	

Rule	Magic Number		
File		Line	
StartupController		63	

Rule	Unused Imports		
File		Line	
StartupController		7, 11, 14, 15	