



**HappyTripEnterprise
1.0.0-BUILD-SNAPSHOT**

*Sonar way
2015-06-15*

Table of contents

1. HappyTripEnterprise	Page 1
1.1. Report Overview	
1.2. Violations Analysis	
1.3. Violations Details	
2. contract	Page 6
2.1. Report Overview	
2.2. Violations Analysis	
2.3. Violations Details	
3. happytrip	Page 9
3.1. Report Overview	
3.2. Violations Analysis	
3.3. Violations Details	
4. gateway	Page 13
4.1. Report Overview	
4.2. Violations Analysis	
4.3. Violations Details	
5. happymiles	Page 16
5.1. Report Overview	
5.2. Violations Analysis	
5.3. 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

8,044



28 packages

158 classes

707 methods

1.8% duplicated lines

Comments

3.5%

289 comment lines

Complexity

1.5

6.9 /class

1,083 decision points

Dynamic Analysis

Code Coverage

0.0%

0 tests

Test Success

N/A

N/A failures

N/A errors

Coding Rules Violations

Rules Compliance

92.3%



Violations

346



1.2. Violations Analysis

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

1.3. Violations Details

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
JqgridCityController	45, 46
ResponseDto	8, 9
AirlineServiceImpl	25
CityServiceImpl	18

Rule	Avoid Duplicate Literals
File	Line
AdminController	163, 164



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

2. contract

2.1. Report Overview

Static Analysis

Lines of code

333

4 packages

8 classes

18 methods

0.0% duplicated lines

Comments

0.6%

2 comment lines

Complexity

3.0

6.8 /class

54 decision points

Dynamic Analysis

Code Coverage

0.0%

0 tests

Test Success

N/A

N/A failures

N/A errors

Coding Rules Violations

Rules Compliance

84.1%

Violations

20

2.2. Violations Analysis

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

2.3. Violations Details

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	
StringUtil	45, 67	

Rule	Unused formal parameter	
File	Line	
StringUtil	53	

Rule	Cyclomatic Complexity	
File	Line	
CreditCard	133	

Rule	Magic Number	
File	Line	
StringUtil	42, 64	

Rule	Unused Imports	
File		Line
StringUtil		3

3. happytrip

3.1. Report Overview

Static Analysis

Lines of code

7,385

19 packages

143 classes

663 methods

1.9% duplicated lines

Comments

3.5%

265 comment lines

Complexity

1.5

6.9 /class

988 decision points

Dynamic Analysis

Code Coverage

0.0%

0 tests

Test Success

N/A

N/A failures

N/A errors

Coding Rules Violations

Rules Compliance

93.3%



Violations

295



3.2. Violations Analysis

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

3.3. Violations Details

Rule	Avoid Catching Throwable	
File	Line	
AdminController	322	
FlightServlet	77	

Rule	Security - Array is stored directly	
File	Line	
Backup	47	

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

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

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

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

232

4 packages

5 classes

21 methods

0.0% duplicated lines

Comments

6.5%

16 comment lines

Complexity

1.4

5.8 /class

29 decision points

Dynamic Analysis

Code Coverage

0.0%

0 tests

Test Success

N/A

N/A failures

N/A errors

Coding Rules Violations

Rules Compliance

83.2%

Violations

17

4.2. Violations Analysis

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	

4.3. Violations Details

Rule	Avoid Catching Throwable	
File	Line	
PaymentGatewayController	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	

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 code

94

1 packages

2 classes

5 methods

0.0% duplicated lines

Comments

6.0%

6 comment lines

Complexity

2.4

6.0 /class

12 decision points

Dynamic Analysis

Code Coverage

0.0%

0 tests

Test Success

N/A

N/A failures

N/A errors

Coding Rules Violations

Rules Compliance

70.2%

Violations

14

5.2. Violations Analysis

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

5.3. Violations Details

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	