sonar

**HappyTrip
1.0**

*Sonar way
2015-06-15*

Table of contents

1. HappyTrip

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

11,127 ⬆

N/A packages
187 classes
618 methods
0.0% duplicated lines

Comments

20.5% ⬇

2,873 comment lines

Complexity

1.8

5.9 /class
1,094 decision points

Dynamic Analysis

Code Coverage

N/A

N/A tests

Test Success

N/A

N/A failures
N/A errors

Coding Rules Violations

Rules Compliance

89.5% ⬇

Violations

460 ⬇

1.2. Violations Analysis

Most violated rules	
AvoidRefAndOutParametersRule	1
Access modifier must be declared	73
Closing parenthesis must be spaced correctly	43
Use multiple lines for statement	36
Split parameters must start on line after declaration	26

Most violated files

ScheduleDAO.cs	44
DAO.cs	28
DBHotelRespository.cs	21
FlightDAO.cs	20
BookingDAO.cs	19

Most complex files

DAO.cs	49
SearchManager.cs	38
Add_Schedule.aspx.cs	34
EditSchedule.aspx.cs	30
HotelManager.cs	29

Most duplicated files

No duplications

2. HappyTripWebApp

2.1. Report Overview

Static Analysis

Lines of code	**Comments**	**Complexity**
4,140 ⬆	**4.1%**	**2.5**
N/A packages	175 comment lines	8.6 /class
55 classes		473 decision points
193 methods		
0.0% duplicated lines		

Dynamic Analysis

Code Coverage	**Test Success**
N/A	**N/A**
N/A tests	N/A failures
	N/A errors

Coding Rules Violations

Rules Compliance	**Violations**
94.3%	**115** ⬇

2.2. Violations Analysis

Most violated rules	
Access modifier must be declared	16
Use multiple lines for statement	15
Closing parenthesis must be spaced correctly	11
Statement must not use unnecessary parenthesis	5
Curly brackets for multi line statements must not share line	3

Most violated files

AdminMaster.ascx.cs	13
EditHotel.aspx.cs	12
ManageAirlines.aspx.cs	9
EditSchedule.aspx.cs	8
BookingHistory.aspx.cs	7

Most complex files

Add_Schedule.aspx.cs	34
EditSchedule.aspx.cs	30
Results.aspx.cs	26
AdminMaster.ascx.cs	25
Passengers.aspx.cs	24

Most duplicated files

No duplications

3. HappyTrip.Model.Entities

3.1. Report Overview

Static Analysis

Lines of code	**Comments**	**Complexity**
960 ⬆	**26.6%**	**1.1**
N/A packages	348 comment lines	1.8 /class
39 classes		71 decision points
64 methods		
0.0% duplicated lines		

Dynamic Analysis

Code Coverage	**Test Success**
N/A	**N/A**
N/A tests	N/A failures
	N/A errors

Coding Rules Violations

Rules Compliance	**Violations**
88.4% ⬆	**39** ⬇

3.2. Violations Analysis

Most violated rules	
Elements must appear in the correct order	7
EnumsShouldDefineAZeroValueRule	6
MarkEnumerationsAsSerializableRule	6
Property summary documentation must match accessors	5
Closing parenthesis must be spaced correctly	4

Most violated files

ProfileCommon.cs	9
Routes.cs	4
Cities.cs	4
Airlines.cs	4
TravelClass.cs	2

Most complex files

TravelBooking.cs	9
Airlines.cs	8
Routes.cs	8
Cities.cs	8
Flight.cs	4

Most duplicated files

No duplications

4. HappyTrip.Model.BusinessLayer

4.1. Report Overview

Static Analysis

Lines of code	**Comments**	**Complexity**
2,057 ⬆	32.7% ⬇	1.6
N/A packages	1,001 comment lines	6.8 /class
35 classes		238 decision points
153 methods		
0.0% duplicated lines		

Dynamic Analysis

Code Coverage	**Test Success**
N/A	N/A
N/A tests	N/A failures
	N/A errors

Coding Rules Violations

Rules Compliance	**Violations**
93.8% ⬇	54 ⬇

4.2. Violations Analysis

Most violated rules	
Access modifier must be declared	15
Commas must be spaced correctly	5
Statement must not use unnecessary parenthesis	4
Code must not contain blank lines at end of file	2
Elements must appear in the correct order	2

Most violated files

SearchManager.cs	10
BookingManager.cs	7
FlightManager.cs	6
RouteManager.cs	4
LogFactory.cs	4

Most complex files

SearchManager.cs	38
HotelManager.cs	29
BookingManager.cs	24
ScheduleManager.cs	24
FlightManager.cs	23

Most duplicated files

No duplications

5. HappyTrip.DataAccessLayer

5.1. Report Overview

Static Analysis

Lines of code	**Comments**	**Complexity**
2,964 ⬆	25.4% ⬇	1.5
N/A packages	1,007 comment lines	7.0 /class
34 classes		239 decision points
160 methods		
0.0% duplicated lines		

Dynamic Analysis

Code Coverage	**Test Success**
N/A	N/A
N/A tests	N/A failures
	N/A errors

Coding Rules Violations

Rules Compliance	**Violations**
80.2% ⬇	214 ⬇

5.2. Violations Analysis

Most violated rules	
Closing parenthesis must be spaced correctly	27
Split parameters must start on line after declaration	26
Access modifier must be declared	25
Closing parenthesis must be on line of last parameter	24
Use multiple lines for statement	19

Most violated files

ScheduleDAO.cs	44
DAO.cs	28
DBHotelRespository.cs	21
FlightDAO.cs	20
BookingDAO.cs	19

Most complex files

DAO.cs	49
DBHotelRespository.cs	23
ScheduleDAO.cs	20
FlightDAO.cs	15
BookingDAO.cs	14

Most duplicated files

No duplications

6. HappyTrip.Model.PaymentService

6.1. Report Overview

Static Analysis

Lines of code	Comments	Complexity
120	**40.0%**	**1.1**
N/A packages	80 comment lines	3.3 /class
3 classes		10 decision points
9 methods		
0.0% duplicated lines		

Dynamic Analysis

Code Coverage	Test Success
N/A	**N/A**
N/A tests	N/A failures
	N/A errors

Coding Rules Violations

Rules Compliance	Violations
88.3% ⬇	**4**

6.2. Violations Analysis

Most violated rules	
AvoidRefAndOutParametersRule	1
Curly brackets for multi line statements must not share line	1
Access modifier must be declared	1
MarkAssemblyWithCLSCompliantRule	1

Most violated files	
PaymentManager.cs	2

IPaymentManager.cs	1

Most complex files

PaymentManager.cs	4
PaymentManagerFactory.cs	3
PaymentNotProcessedFromService Exception.cs	3

Most duplicated files

No duplications

7. PaymentGateway

7.1. Report Overview

Static Analysis

Lines of code

347 ⬆

N/A packages
6 classes
6 methods
0.0% duplicated lines

Comments

25.2% ⬇

117 comment lines

Complexity

4.2 ⬇

4.2 /class
25 decision points

Dynamic Analysis

Code Coverage

N/A

N/A tests

Test Success

N/A

N/A failures
N/A errors

Coding Rules Violations

Rules Compliance

88.8% ⬇

Violations

15 ⬇

7.2. Violations Analysis

Most violated rules	
Access modifier must be declared	3
EnumsShouldDefineAZeroValueRule	2
MarkEnumerationsAsSerializableRule	2
Property summary documentation must match accessors	2
Element documentation header must be preceded by blank line	1

Most violated files

PaymentService.cs	7
PaymentStatus.cs	2
PaymentInfo.cs	2
CardType.cs	2
IPaymentService.cs	1

Most complex files

PaymentService.cs	23
InternalCard.cs	2

Most duplicated files

No duplications

8. PaymentGateway.WebHost

8.1. Report Overview

Static Analysis

Lines of code	**Comments**	**Complexity**
163 ⬆	**12.4%**	**1.1**
N/A packages	23 comment lines	1.8 /class
8 classes		14 decision points
13 methods		
0.0% duplicated lines		

Dynamic Analysis

Code Coverage	**Test Success**
N/A	**N/A**
N/A tests	N/A failures
	N/A errors

Coding Rules Violations

Rules Compliance	**Violations**
89.0% ⬇	**6** ⬇

8.2. Violations Analysis

Most violated rules	
Access modifier must be declared	5
MarkAssemblyWithCLSCompliantRule	1

Most violated files	
Global.asax.cs	5

Most complex files

Global.asax.cs	5
Register.aspx.cs	3
ChangePassword.aspx.cs	1
Site.Master.cs	1
Default.aspx.cs	1

Most duplicated files

No duplications

9. HappyTrip.UnitTestLayer

9.1. Report Overview

Static Analysis

Lines of code	**Comments**	**Complexity**
15	48.3% ⬇	N/A
N/A packages	14 comment lines	N/A /class
0 classes		0 decision points
0 methods		
0.0% duplicated lines		

Dynamic Analysis

Code Coverage	**Test Success**
N/A	N/A
N/A tests	N/A failures
	N/A errors

Coding Rules Violations

Rules Compliance	**Violations**
80.0% ⬇	1

9.2. Violations Analysis

Most violated rules	
MarkAssemblyWithCLSCompliantRule	1

Most violated files
No violated files

Most complex files

No complex files

Most duplicated files

No duplications

10. HappyTripEventLogger

10.1. Report Overview

Static Analysis

Lines of code

56

N/A packages
1 classes
3 methods
0.0% duplicated lines

Comments

21.1%

15 comment lines

Complexity

1.0

3.0 /class
3 decision points

Dynamic Analysis

Code Coverage

N/A

N/A tests

Test Success

N/A

N/A failures
N/A errors

Coding Rules Violations

Rules Compliance

94.6% ⬇

Violations

1 ⬇

10.2. Violations Analysis

Most violated rules	
MarkAssemblyWithCLSCompliantRule	1

Most violated files
No violated files

Most complex files

EventLogger.cs	3

Most duplicated files

No duplications

11. HappyTripFileLogger

11.1. Report Overview

Static Analysis

Lines of code	**Comments**	**Complexity**
62	**19.5%**	**1.0**
N/A packages	15 comment lines	3.0 /class
1 classes		3 decision points
3 methods		
0.0% duplicated lines		

Dynamic Analysis

Code Coverage	**Test Success**
N/A	**N/A**
N/A tests	N/A failures
	N/A errors

Coding Rules Violations

Rules Compliance	**Violations**
90.3% ⬇	**2** ⬇

11.2. Violations Analysis

Most violated rules	
Access modifier must be declared	1
MarkAssemblyWithCLSCompliantRule	1

Most violated files	
FileLogger.cs	1

Most complex files

FileLogger.cs	3

Most duplicated files

No duplications

12. HappyTripXmlLogger

12.1. Report Overview

Static Analysis

Lines of code	**Comments**	**Complexity**
56	21.1%	1.0
N/A packages	15 comment lines	3.0 /class
1 classes		3 decision points
3 methods		
0.0% duplicated lines		

Dynamic Analysis

Code Coverage	**Test Success**
N/A	N/A
N/A tests	N/A failures
	N/A errors

Coding Rules Violations

Rules Compliance	**Violations**
89.3% ⬇	2 ⬇

12.2. Violations Analysis

Most violated rules	
Access modifier must be declared	1
MarkAssemblyWithCLSCompliantRule	1

Most violated files	
XmlLogger.cs	1

Most complex files	
XmlLogger.cs	3

Most duplicated files	
No duplications	

13. HappyTripEmailLogger

13.1. Report Overview

Static Analysis

Lines of code	**Comments**	**Complexity**
72	17.2%	1.3
N/A packages	15 comment lines	4.0 /class
1 classes		4 decision points
3 methods		
0.0% duplicated lines		

Dynamic Analysis

Code Coverage	**Test Success**
N/A	N/A
N/A tests	N/A failures
	N/A errors

Coding Rules Violations

Rules Compliance	**Violations**
91.7% ⬇	2 ⬇

13.2. Violations Analysis

Most violated rules	
Access modifier must be declared	1
MarkAssemblyWithCLSCompliantRule	1

Most violated files	
EmailLogger.cs	1

Most complex files

EmailLogger.cs	4

Most duplicated files

No duplications

14. AirlinesMilesProgramService

14.1. Report Overview

Static Analysis

Lines of code	**Comments**	**Complexity**
115	**29.4%**	**1.4**
N/A packages	48 comment lines	3.7 /class
3 classes		11 decision points
8 methods		
0.0% duplicated lines		

Dynamic Analysis

Code Coverage	**Test Success**
N/A	**N/A**
N/A tests	N/A failures
	N/A errors

Coding Rules Violations

Rules Compliance	**Violations**
90.4% ⬇	**5** ⬇

14.2. Violations Analysis

Most violated rules	
Access modifier must be declared	1
Element documentation must not have default summary	1
MarkAssemblyWithCLSCompliantRule	1
Field names must not use hungarian notation	2

Most violated files	

HappyMilesProgram.asmx.cs	2
Default.aspx.cs	2

Most complex files

HappyMilesProgram.asmx.cs	6
Default.aspx.cs	3
HappyMilesData.cs	2

Most duplicated files

No duplications