



HappyTrip
1.0

Sonar way
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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

8,747



N/A packages

167 classes

506 methods

0.0% duplicated lines

Comments

21.4%



2,386 comment lines

Complexity

1.5

4.6 /class

760 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

94.3%



Violations

208



1.2. Violations Analysis

Most violated rules	
Access modifier must be declared	66
Closing parenthesis must be spaced correctly	26
Statement must not use unnecessary parenthesis	11
Elements must appear in the correct order	9
Commas must be spaced correctly	8

Most violated files

EditHotel.aspx.cs	12
DBHotelRespository.cs	12
ProfileCommon.cs	9
EditSchedule.aspx.cs	9
BookingDAOImplFactory.cs	6

Most complex files

HotelManager.cs	29
SearchManager.cs	26
DBHotelRespository.cs	23
Add_Schedule.aspx.cs	21
EditSchedule.aspx.cs	21

Most duplicated files

No duplications

2. HappyTripWebApp

2.1. Report Overview

Static Analysis

Lines of code

3,065



N/A packages

46 classes

151 methods

0.0% duplicated lines

Comments

2.6%

83 comment lines

Complexity

1.9

6.2 /class

287 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

94.8%

Violations

74



2.2. Violations Analysis

Most violated rules	
Access modifier must be declared	16
Closing parenthesis must be spaced correctly	14
Statement must not use unnecessary parenthesis	7
Chained statement blocks must not be preceded by blank line	2
Code must not contain multiple whitespace in a row	1

Most violated files

EditHotel.aspx.cs	12
EditSchedule.aspx.cs	9
EditFlight.aspx.cs	5
RouteUI.aspx.cs	5
Global.asax.cs	5

Most complex files

Add_Schedule.aspx.cs	21
EditSchedule.aspx.cs	21
Results.aspx.cs	20
EditFlight.aspx.cs	13
Schedule_Flight.aspx.cs	13

Most duplicated files

No duplications

3. HappyTrip.Model.Entities

3.1. Report Overview

Static Analysis

Lines of code

939



N/A packages

38 classes

64 methods

0.0% duplicated lines

Comments

26.1%



331 comment lines

Complexity

1.1

1.9 /class

71 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

92.0%



Violations

25



3.2. Violations Analysis

Most violated rules	
Elements must appear in the correct order	7
Closing parenthesis must be spaced correctly	6
Property summary documentation must match accessors	5
Access modifier must be declared	4
Element return value must be documented	2

Most violated files

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

Most complex files

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

Most duplicated files

No duplications

4. HappyTrip.Model.BusinessLayer

4.1. Report Overview

Static Analysis

Lines of code

1,666 ↓

N/A packages

31 classes

129 methods

0.0% duplicated lines

Comments

34.5%

879 comment lines

Complexity

1.4

5.8 /class

180 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

94.4%

Violations

37 ↓

4.2. Violations Analysis

Most violated rules	
Access modifier must be declared	16
Closing parenthesis must be spaced correctly	3
Commas must be spaced correctly	3
Documentation text must meet minimum character length	2
Code must not contain blank lines at end of file	2

Most violated files

SearchManager.cs	5
LogFactory.cs	4
ScheduleManager.cs	4
RouteManager.cs	4
FlightManager.cs	4

Most complex files

HotelManager.cs	29
SearchManager.cs	26
FlightManager.cs	14
ScheduleManager.cs	14
BookingManager.cs	12

Most duplicated files

No duplications

5. HappyTrip.DataAccessLayer

5.1. Report Overview

Static Analysis

Lines of code

2,350



N/A packages

32 classes

123 methods

0.0% duplicated lines

Comments

26.1%

830 comment lines

Complexity

1.4

5.5 /class

175 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

94.7%



Violations

56

5.2. Violations Analysis

Most violated rules	
Access modifier must be declared	21
Closing parenthesis must be spaced correctly	3
Documentation text must meet minimum character length	2
Statement must not use unnecessary parenthesis	2
Commas must be spaced correctly	2

Most violated files

DBHotelRespository.cs	12
BookingDAOImplFactory.cs	6
SearchDAO.cs	5
AirlineDAO.cs	4
ScheduleDAO.cs	4

Most complex files

DBHotelRespository.cs	23
ScheduleDAO.cs	18
FlightDAO.cs	17
CityDAO.cs	16
RouteDAO.cs	10

Most duplicated files

No duplications

6. HappyTrip.Model.PaymentService

6.1. Report Overview

Static Analysis

Lines of code

119

N/A packages

3 classes

9 methods

0.0% duplicated lines

Comments

39.9%

79 comment lines

Complexity

1.1

3.3 /class

10 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

95.0%



Violations

2



6.2. Violations Analysis

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

Most violated files	
PaymentManager.cs	2

Most complex files	
PaymentManager.cs	4
PaymentManagerFactory.cs	3
PaymentNotProcessedFromServiceException.cs	3

Most duplicated files	
No duplications	

7. PaymentGateway

7.1. Report Overview

Static Analysis

Lines of code

187



N/A packages

5 classes

5 methods

0.0% duplicated lines

Comments

31.8%



87 comment lines

Complexity

2.0

2.0 /class

10 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

90.4%



Violations

6



7.2. Violations Analysis

Most violated rules	
Statement must not use unnecessary parenthesis	2
Commas must be spaced correctly	2
Property summary documentation must match accessors	2

Most violated files	
PaymentService.cs	3
PaymentInfo.cs	2

IPaymentService.cs	1
--------------------	---

Most complex files

PaymentService.cs	10
-------------------	----

Most duplicated files

No duplications	
-----------------	--

8. PaymentGateway.WebHost

8.1. Report Overview

Static Analysis

Lines of code

160



N/A packages

8 classes

13 methods

0.0% duplicated lines

Comments

12.6%

23 comment lines

Complexity

1.1

1.8 /class

14 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

90.6%

Violations

5

8.2. Violations Analysis

Most violated rules	
Access modifier must be declared	5

Most violated files	
Global.aspx.cs	5

Most complex files	
Global.aspx.cs	5



Register.aspx.cs	3
About.aspx.cs	1
ChangePassword.aspx.cs	1
Site.Master.cs	1

Most duplicated files

No duplications

9. HappyTrip.UnitTestLayer

9.1. Report Overview

Static Analysis

Lines of code

15

N/A packages

0 classes

0 methods

0.0% duplicated lines

Comments

48.3%



14 comment lines

Complexity

N/A

N/A /class

0 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

100.0%



Violations

0

9.2. Violations Analysis

Most violated rules

No violated rules

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	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
100.0% 	0

10.2. Violations Analysis

Most violated rules
No violated rules

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

62

N/A packages

1 classes

3 methods

0.0% duplicated lines

Comments

19.5%

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

95.2%



Violations

1

11.2. Violations Analysis

Most violated rules	
Access modifier must be declared	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

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

12.2. Violations Analysis

Most violated rules	
Access modifier must be declared	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
95.8% 	1

13.2. Violations Analysis

Most violated rules	
Access modifier must be declared	1

Most violated files	
EmailLogger.cs	1

Most complex files	
EmailLogger.cs	4

Most duplicated files
No duplications