



HappyTrip
1.0

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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

8,076 

N/A packages

159 classes

473 methods

0.0% duplicated lines

Comments

22.3% 

2,324 comment lines

Complexity

1.5

4.5 /class

716 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

94.5%

Violations

179 

1.2. Violations Analysis

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

Most violated files

ScheduleDAO.cs	12
ProfileCommon.cs	9
EditSchedule.aspx.cs	9
DBHotelRespository.cs	6
RouteUI.aspx.cs	6

Most complex files

SearchManager.cs	26
HotelManager.cs	25
EditSchedule.aspx.cs	22
DBHotelRespository.cs	21
Add_Schedule.aspx.cs	21

Most duplicated files

No duplications

2. HappyTripWebApp

2.1. Report Overview

Static Analysis

Lines of code

2,648 

N/A packages

43 classes

133 methods

0.0% duplicated lines

Comments

2.5%

68 comment lines

Complexity

1.9

5.8 /class

251 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

95.1%

Violations

59 

2.2. Violations Analysis

Most violated rules	
Access modifier must be declared	18
Statement must not use unnecessary parenthesis	7
Closing parenthesis must be spaced correctly	3
Code must not contain multiple whitespace in a row	2
Chained statement blocks must not be preceded by blank line	2

Most violated files

EditSchedule.aspx.cs	9
RouteUI.aspx.cs	6
Global.asax.cs	5
EditFlight.aspx.cs	5
AddAirline.aspx.cs	4

Most complex files

EditSchedule.aspx.cs	22
Add_Schedule.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

951



N/A packages

38 classes

64 methods

0.0% duplicated lines

Comments

26.0%



334 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

91.8%



Violations

26



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	6
Access modifier must be declared	4
Element return value must be documented	2

Most violated files

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

Most complex files

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

Most duplicated files

No duplications

4. HappyTrip.Model.BusinessLayer

4.1. Report Overview

Static Analysis

Lines of code

1,559 

N/A packages

28 classes

122 methods

0.0% duplicated lines

Comments

35.2%

846 comment lines

Complexity

1.5

6.4 /class

178 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

95.3%

Violations

28 

4.2. Violations Analysis

Most violated rules	
Access modifier must be declared	16
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
Documentation must contain valid xml	2

Most violated files

SearchManager.cs	5
RouteManager.cs	4
FlightManager.cs	4
ScheduleManager.cs	4
CityManager.cs	3

Most complex files

SearchManager.cs	26
HotelManager.cs	25
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

2,191 ↓

N/A packages

30 classes

115 methods

0.0% duplicated lines

Comments

27.1%

813 comment lines

Complexity

1.5

5.6 /class

169 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

50 ↑

5.2. Violations Analysis

Most violated rules	
Access modifier must be declared	19
Commas must be spaced correctly	5
Opening parenthesis must be spaced correctly	4
Statement must not use unnecessary parenthesis	2
Element documentation header must be preceded by blank line	1

Most violated files	
ScheduleDAO.cs	12
DBHotelRespository.cs	6
SearchDAO.cs	5
AirlineDAO.cs	4
BookingDAOImplFactory.cs	3

Most complex files	
DBHotelRespository.cs	21
ScheduleDAO.cs	18
FlightDAO.cs	17
CityDAO.cs	16
AirTravelDAOFactory.cs	12

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
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

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

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

100.0%

Violations

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

55



N/A packages

1 classes

3 methods

0.0% duplicated lines

Comments

21.4%

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

94.5%

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

73



N/A packages

1 classes

3 methods

0.0% duplicated lines

Comments

17.0%

15 comment lines

Complexity

1.3

4.0 /class

4 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

95.9%

Violations

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