sonar

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	**Comments**	**Complexity**
7,548 ⬆	26.0% ⬆	1.7
N/A packages	2,646 comment lines	5.3 /class
137 classes		726 decision points
438 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**
94.6% ⬆	172 ⬆

1.2. Violations Analysis

Most violated rules	
Access modifier must be declared	42
Elements must appear in the correct order	15
Statement must not use unnecessary parenthesis	12
Property summary documentation must match accessors	8
Attribute constructor must not use unnecessary parenthesis	8

Most violated files

ProfileCommon.cs	9
ScheduleDAO.cs	8
EditSchedule.aspx.cs	8
RouteUI.aspx.cs	7
BookingDAO.cs	5

Most complex files

SearchManager.cs	38
FlightDAO.cs	30
ScheduleManager.cs	30
Results.aspx.cs	24
Add_Schedule.aspx.cs	23

Most duplicated files

No duplications

2. HappyTripWebApp

2.1. Report Overview

Static Analysis

Lines of code	**Comments**	**Complexity**
2,204 ⬇	3.8%	2.2
N/A packages	86 comment lines	7.9 /class
29 classes		228 decision points
103 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**
95.4% ⬆	51 ⬆

2.2. Violations Analysis

Most violated rules	
Access modifier must be declared	13
Statement must not use unnecessary parenthesis	7
Code must not contain multiple whitespace in a row	2
Static elements must appear before instance elements	1
Chained statement blocks must not be preceded by blank line	1

Most violated files

EditSchedule.aspx.cs	8
RouteUI.aspx.cs	7
Global.asax.cs	5
EditFlight.aspx.cs	5
AddRoute.aspx.cs	4

Most complex files

Results.aspx.cs	24
Add_Schedule.aspx.cs	23
EditSchedule.aspx.cs	21
EditFlight.aspx.cs	14
Schedule_Flight.aspx.cs	13

Most duplicated files

No duplications

3. HappyTrip.Model.Entities

3.1. Report Overview

Static Analysis

Lines of code	**Comments**	**Complexity**
846 ⬇	33.1% ⬆	1.1
N/A packages	418 comment lines	2.4 /class
30 classes		73 decision points
65 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**
91.1% ⬇	25 ⬇

3.2. Violations Analysis

Most violated rules	
Elements must appear in the correct order	13
Property summary documentation must match accessors	5
Closing parenthesis must be spaced correctly	4
Element return value must be documented	2
Element documentation headers must not be followed by blank line	1

Most violated files

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

Most complex files

Flights.cs	10
TravelBooking.cs	9
Routes.cs	8
Airlines.cs	6
Cities.cs	6

Most duplicated files

No duplications

4. HappyTrip.Model.BusinessLayer

4.1. Report Overview

Static Analysis

Lines of code

1,642 ⬇

N/A packages
30 classes
128 methods
0.0% duplicated lines

Comments

34.1% ⬆

848 comment lines

Complexity

1.7

7.1 /class
213 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

95.7% ⬆

Violations

25 ⬆

4.2. Violations Analysis

Most violated rules	
Access modifier must be declared	12
Documentation text must meet minimum character length	3
Element return value must be documented	2
Code must not contain blank lines at end of file	2
Commas must be spaced correctly	2

Most violated files

LogFactory.cs	3
ScheduleManager.cs	3
SearchManager.cs	3
FlightManager.cs	2
RouteManager.cs	2

Most complex files

SearchManager.cs	38
ScheduleManager.cs	30
RouteManager.cs	22
BookingManager.cs	21
FlightManager.cs	17

Most duplicated files

No duplications

5. HappyTrip.DataAccessLayer

5.1. Report Overview

Static Analysis

Lines of code	**Comments**	**Complexity**
2,221 ⬇	29.1% ⬆	1.6
N/A packages	913 comment lines	6.1 /class
27 classes		165 decision points
102 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**
95.9% ⬆	42

5.2. Violations Analysis

Most violated rules	
Access modifier must be declared	11
Documentation text must meet minimum character length	5
Statement must not use unnecessary parenthesis	3
Commas must be spaced correctly	2
Opening parenthesis must be spaced correctly	1

Most violated files

ScheduleDAO.cs	8
FlightDAO.cs	5
BookingDAO.cs	5
SearchDAO.cs	4
AirTravelBookingDAOImpl.cs	4

Most complex files

FlightDAO.cs	30
ScheduleDAO.cs	20
CityDAO.cs	17
RouteDAO.cs	11
SearchDAO.cs	9

Most duplicated files

No duplications

6. HappyTrip.Model.PaymentService

6.1. Report Overview

Static Analysis

Lines of code	**Comments**	**Complexity**
119 ⬇	**39.9%**	**1.1**
N/A packages	79 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**
95.0%	**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
PaymentNotProcessedFromService Exception.cs	3

Most duplicated files

No duplications

7. PaymentGateway

7.1. Report Overview

Static Analysis

Lines of code	**Comments**	**Complexity**
187 ⬇	31.8% ⬆	2.0 ⬆
N/A packages	87 comment lines	2.0 /class
5 classes		10 decision points
5 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% ⬇	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	Comments	Complexity
160 ⬇	**12.6%**	**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
90.6%	**5**

8.2. Violations Analysis

Most violated rules	
Access modifier must be declared	5

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**
169 ⬆	**53.2%** ⬆	**1.0**
N/A packages	192 comment lines	2.6 /class
5 classes		13 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**
81.1% ⬇	**16** ⬇

9.2. Violations Analysis

Most violated rules	
Attribute constructor must not use unnecessary parenthesis	8
Comments must contain text	8

Most violated files	
AirLineManagerTest.cs	5
SearchResultTest.cs	4
BookingDAOTest.cs	4
SearchManagerTest.cs	3

Most complex files

AirLineManagerTest.cs	4
SearchResultTest.cs	3
BookingDAOTest.cs	3
SearchManagerTest.cs	2
Test.cs	1

Most duplicated files

No duplications