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
6,944	**24.7%**	**1.7**
N/A packages	2,272 comment lines	5.4 /class
125 classes		671 decision points
389 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
92.6%	**195**

1.2. Violations Analysis

Most violated rules	
Fields must be private	18
AvoidRefAndOutParametersRule	1
Access modifier must be declared	34
Statement must not use unnecessary parenthesis	12
MarkEnumerationsAsSerializableRule	9

Most violated files

ProfileCommon.cs	9
EditSchedule.aspx.cs	8
RouteUI.aspx.cs	7
SearchInfo.cs	7
ScheduleDAO.cs	6

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**
2,206 ⬇	2.6% ⬇	2.2 ⬆
N/A packages	60 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**
95.3% ⬆	52 ⬆

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
MarkAssemblyWithCLSCompliantRule	1
Static elements must appear before instance elements	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

602 ⬇

N/A packages
25 classes
32 methods
0.0% duplicated lines

Comments

27.6% ⬆

229 comment lines

Complexity

1.2

1.5 /class
38 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

73.1% ⬇

Violations

42 ⬇

3.2. Violations Analysis

Most violated rules	
Fields must be private	18
EnumsShouldDefineAZeroValueRule	6
MarkEnumerationsAsSerializableRule	6
Closing parenthesis must be spaced correctly	4
Element return value must be documented	2

Most violated files

ProfileCommon.cs	9
SearchInfo.cs	7
Card.cs	5
Passenger.cs	3
Payment.cs	3

Most complex files

TravelBooking.cs	9
Flight.cs	4
ProfileCommon.cs	4
SearchLog.cs	3
Schedules.cs	3

Most duplicated files

No duplications

4. HappyTrip.Model.BusinessLayer

4.1. Report Overview

Static Analysis

Lines of code	**Comments**	**Complexity**
1,314 ⬇	35.4% ⬆	1.7
N/A packages	720 comment lines	8.2 /class
24 classes		196 decision points
113 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**
96.8% ⬆	16 ⬆

4.2. Violations Analysis

Most violated rules	
Access modifier must be declared	4
Documentation text must meet minimum character length	3
Code must not contain blank lines at end of file	2
Commas must be spaced correctly	2
MarkAssemblyWithCLSCompliantRule	1

Most violated files

ScheduleManager.cs	3
SearchManager.cs	3
FlightManager.cs	2
RouteManager.cs	2
BookingManager.cs	1

Most complex files

SearchManager.cs	38
ScheduleManager.cs	30
RouteManager.cs	23
BookingManager.cs	21
FlightManager.cs	18

Most duplicated files

No duplications

5. HappyTrip.DataAccessLayer

5.1. Report Overview

Static Analysis

Lines of code

2,210 ⬇

N/A packages
27 classes
102 methods
0.0% duplicated lines

Comments

28.6% ⬆

884 comment lines

Complexity

1.6

6.0 /class
163 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

95.6% ⬆

Violations

43

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
Code must not contain blank lines at end of file	1

Most violated files

ScheduleDAO.cs	6
FlightDAO.cs	5
BookingDAO.cs	5
SearchDAO.cs	4
AirTravelBookingDAOImpl.cs	4

Most complex files

FlightDAO.cs	30
ScheduleDAO.cs	18
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**
82.4%	7

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
EnumsShouldDefineAZeroValueRule	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

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

81.8% ⬇

Violations

12 ⬇

7.2. Violations Analysis

Most violated rules	
EnumsShouldDefineAZeroValueRule	2
MarkEnumerationsAsSerializableRule	2
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
IPaymentService.cs	2
PaymentInfo.cs	2
CardType.cs	2
PaymentStatus.cs	2

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**
88.8%	**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**
146 ⬆	56.5% ⬆	1.0
N/A packages	190 comment lines	3.0 /class
4 classes		12 decision points
12 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**
76.0% ⬇	17 ⬇

9.2. Violations Analysis

Most violated rules	
Attribute constructor must not use unnecessary parenthesis	8
MarkAssemblyWithCLSCompliantRule	1
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

Most duplicated files

No duplications