# sonar

## HappyTrip
## 1.0.0-BUILD-SNAPSHOT

**Sonar way**
**2015-06-15**

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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 |
|---|---|---|
| **6,208** ⬇ | **3.5%** | **1.3** |
| 22 packages | 225 comment lines | 5.5 /class |
| 137 classes | | 758 decision points |
| 592 methods | | |
| 3.0% duplicated lines | | |

### Dynamic Analysis

| Code Coverage | Test Success |
|---|---|
| **0.0%** | **N/A** |
| 0 tests | N/A failures |
| | N/A errors |

### Coding Rules Violations

| Rules Compliance | Violations |
|---|---|
| **95.6%** ⬆ | **194** ⬆ |

## 1.2. Violations Analysis

| Most violated rules | |
|---|---|
| Security - Array is stored directly | 1 |
| If Stmts Must Use Braces | 22 |
| Unused Private Field | 17 |
| Close Resource | 14 |
| System Println | 7 |

**Most violated files**

| | |
|---|---|
| ProfileController | 19 |
| JdbcGenericDao | 18 |
| FlightConfirmationController | 13 |
| FlightPaymentController | 12 |
| ReportController | 11 |

**Most complex files**

| | |
|---|---|
| AdminController | 47 |
| ProfileController | 26 |
| SearchController | 23 |
| JpaLookupDao | 22 |
| ReportController | 20 |

**Most duplicated files**

| | |
|---|---|
| AirlineDto | 22 |
| AirlineReport | 22 |
| RegisterController | 20 |
| FlightConfirmationController | 19 |
| SearchController | 18 |

## 1.3. Violations Details

| Rule | Security - Array is stored directly |
|---|---|
| **File** | **Line** |
| Backup | 47 |

| Rule | If Stmts Must Use Braces |
|---|---|
| **File** | **Line** |
| AdminController | 173 |
| ProfileController | 170, 185 |
| ReportController | 73 |
| SearchController | 104 |
| FlightBookingController | 85 |
| FlightPaymentController | 63 |

| PaymentProcessController | 35, 36 |
|---|---|
| Airline | 89, 91, 94 |
| AirlineBackup | 23, 24 |
| FlightBookingBackup | 23, 24 |
| RouteBackup | 23, 24 |
| ScheduledFlightBackup | 23, 24 |

| Rule | Unused Private Field |
|---|---|
| **File** | **Line** |
| AdminController | 27, 29, 30 |
| PassengerController | 14 |
| ProfileController | 49 |
| StartupController | 43, 46 |
| FlightRouteDto | 12 |
| FlightBookingController | 37 |
| FlightConfirmationController | 49 |
| JpaAirlineDao | 16 |
| JpaBakupDao | 15 |
| JpaCityDao | 16 |
| JpaStateDao | 15 |
| AdminServiceImpl | 40, 43 |
| FlightBookingServiceImpl | 31 |

| Rule | Close Resource |
|---|---|
| **File** | **Line** |
| JdbcGenericDao | 38, 47, 48, 49, 71, 72, 73, 93, 95, 96, 116, 118, 132, 134 |

| Rule | System Println |
|---|---|
| **File** | **Line** |
| JdbcGenericDao | 94 |
| JpaAirlineDao | 41 |
| JpaFlightRouteDao | 31, 46 |
| ChatloginServlet | 51, 55 |
| ChatlogoutServlet | 24 |

| Rule | Avoid Print Stack Trace | |
|---|---|---|
| File | | Line |
| ProfileController | | 150 |
| SearchController | | 74, 144, 147 |
| StartupController | | 80 |
| FlightConfirmationController | | 95 |

| Rule | Signature Declare Throws Exception | |
|---|---|---|
| File | | Line |
| ProfileController | | 165 |
| SearchController | | 92 |
| PaymentProcessController | | 34 |

| Rule | Preserve Stack Trace | |
|---|---|---|
| File | | Line |
| SearchController | | 108, 112 |

| Rule | Unused local variable | |
|---|---|---|
| File | | Line |
| StringUtil | | 44, 66 |

| Rule | Unnecessary Local Before Return | |
|---|---|---|
| File | | Line |
| JdbcGenericDao | | 39 |
| BookingServiceImpl | | 25 |