

Adding new features with TDD and JUnit 5



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Overview



Use JUnit 5 more effectively

Introduce new features to the application

- Business logic understanding
- Activity diagrams
- Class diagram

Use JUnit5 new features

Transpose scenarios in JUnit 5

Fixing tests implementing business logic



Demo



Use JUnit 5 more effectively

Introduce `@Nested` inner classes

Separate the logic of testing at the level of inner classes

Use the `@DisplayName` and `@BeforeEach` annotations

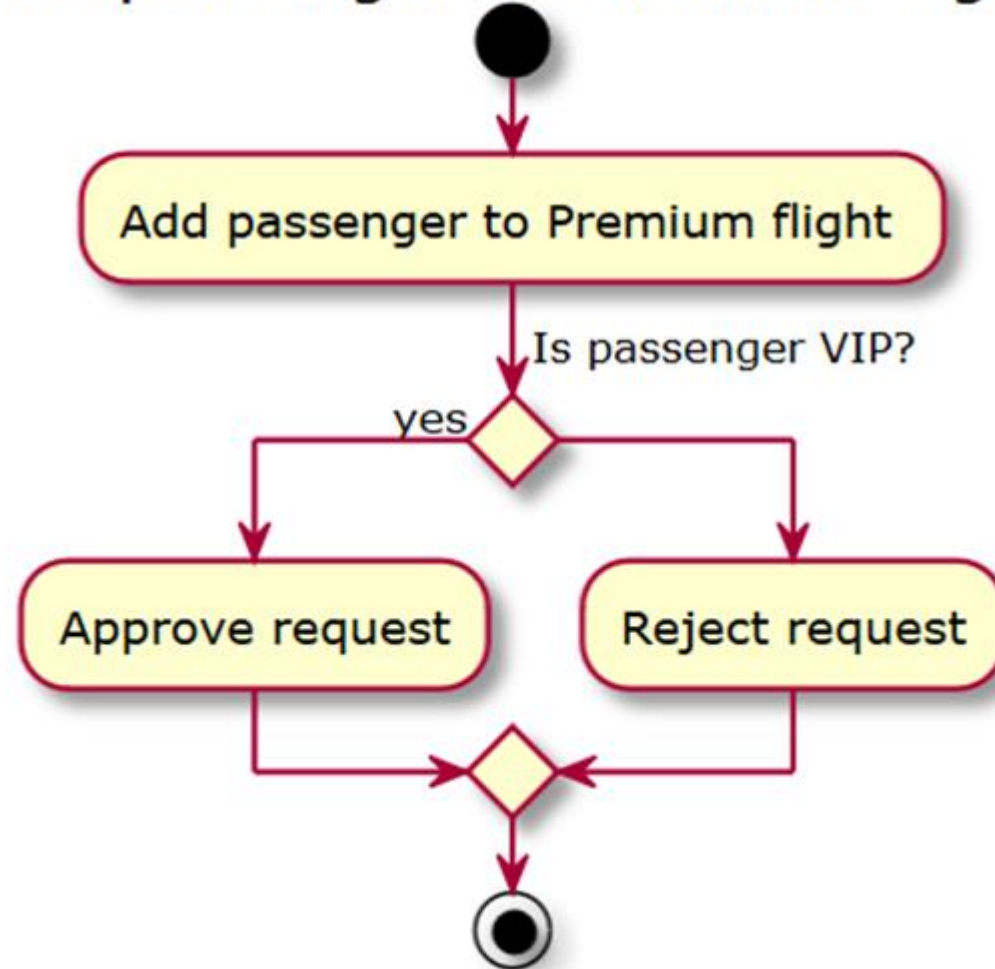
Run the tests



Adding a Premium Flight

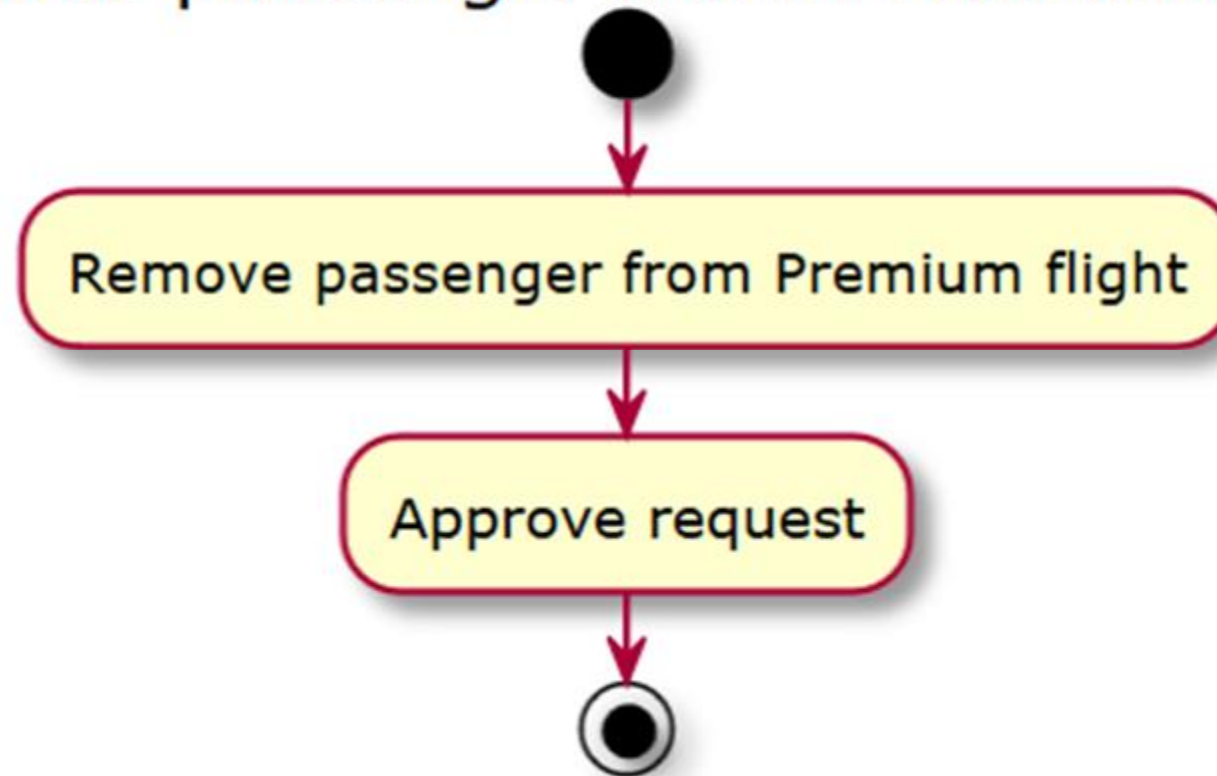
Adding Passenger New Business Logic

Add passenger to Premium flight



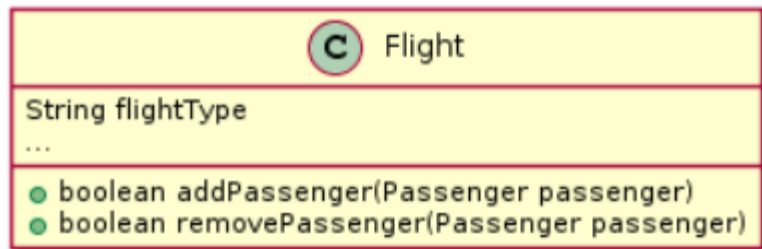
Removing Passenger New Business Logic

Remove passenger from Premium flight

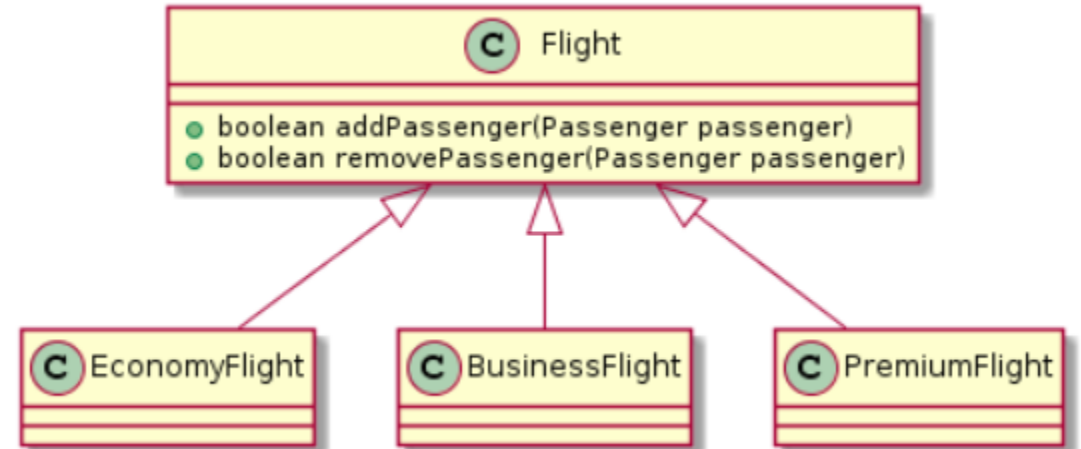


Open/close principle

Using conditional



Using polymorphism



Demo



Write the PremiumFlight class with dummy methods

Write the tests that are checking the new functionality

Run the tests - to be red

Effectively add the code that implements the new functionality

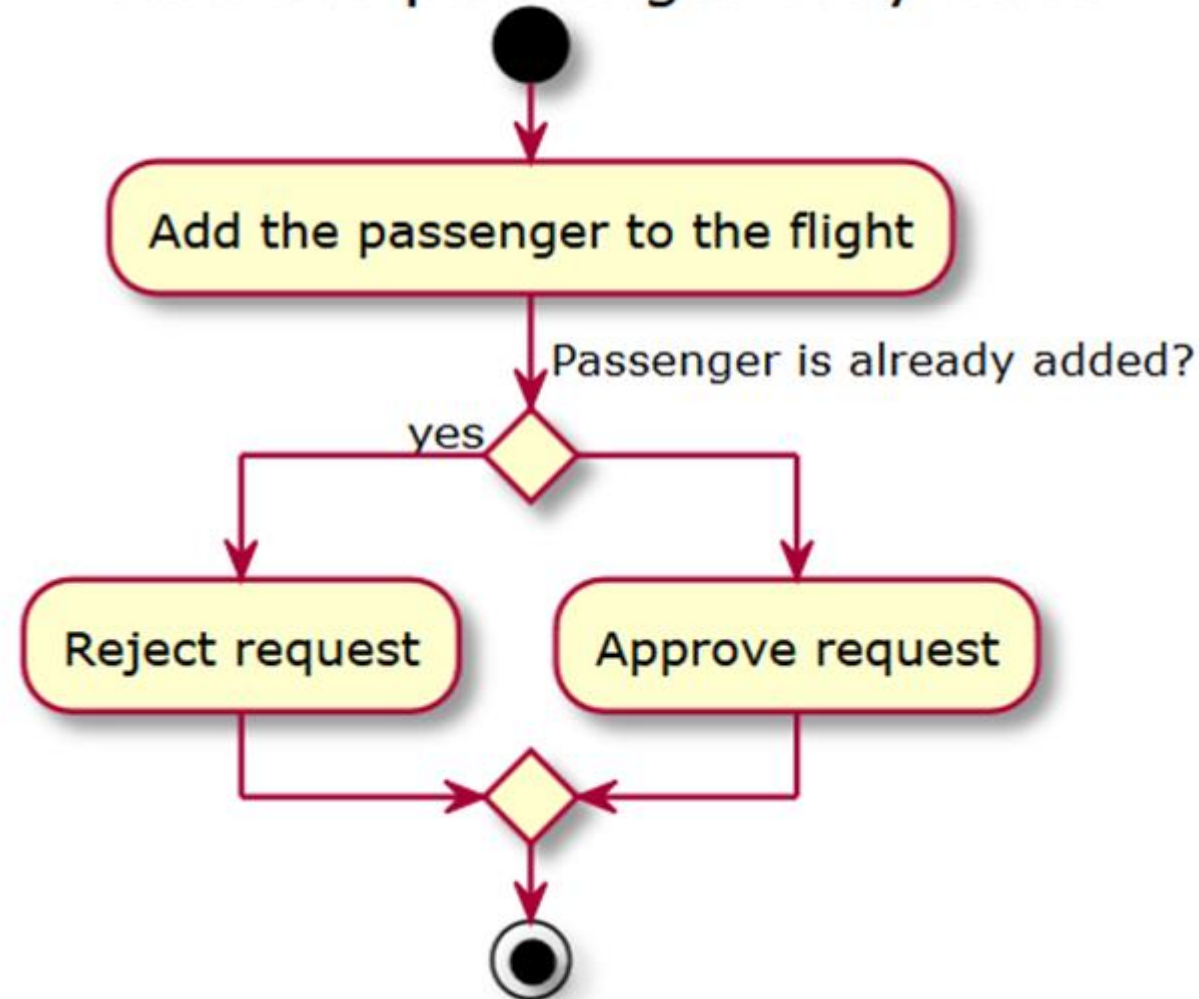
Run the tests - to be green

Adding A Passenger Only Once



Adding Passenger Only Once

Add the passenger only once



Demo



Write the tests checking the restriction

Run the tests - to be red

Effectively add the code that implements the restriction

Run the tests - to be green

