From TDD to BDD

Cătălin Tudose

PHD IN COMPUTER SCIENCE, JAVA AND WEB TECHNOLOGIES EXPERT
https://www.linkedin.com/in/catalin-tudose-847667a1

Overview

Differences between TDD and BDD

BDD benefits

BDD challenges

From a JUnit 5 TDD application to introducing use cases, features, and stories

TDD Main Aspects

Focus on a single unit

Safety net

Isolation

Iterative process

BDD Main Aspects

Extension of TDD	**Test cases in natural language**	**Real needs**
What to test, what not to test	**Understanding of the system**	**Software that matters**

TDD vs. BDD

TDD | **BDD**

BDD Benefits and Challenges

BDD Benefits

Clarity

Favors automation

Focus on business value and business needs

BDD Benefits

High visibility

Meet user needs

Lower costs

Favor change

BDD Challenges

Strong collaboration and engagement

Difficult in isolated teams
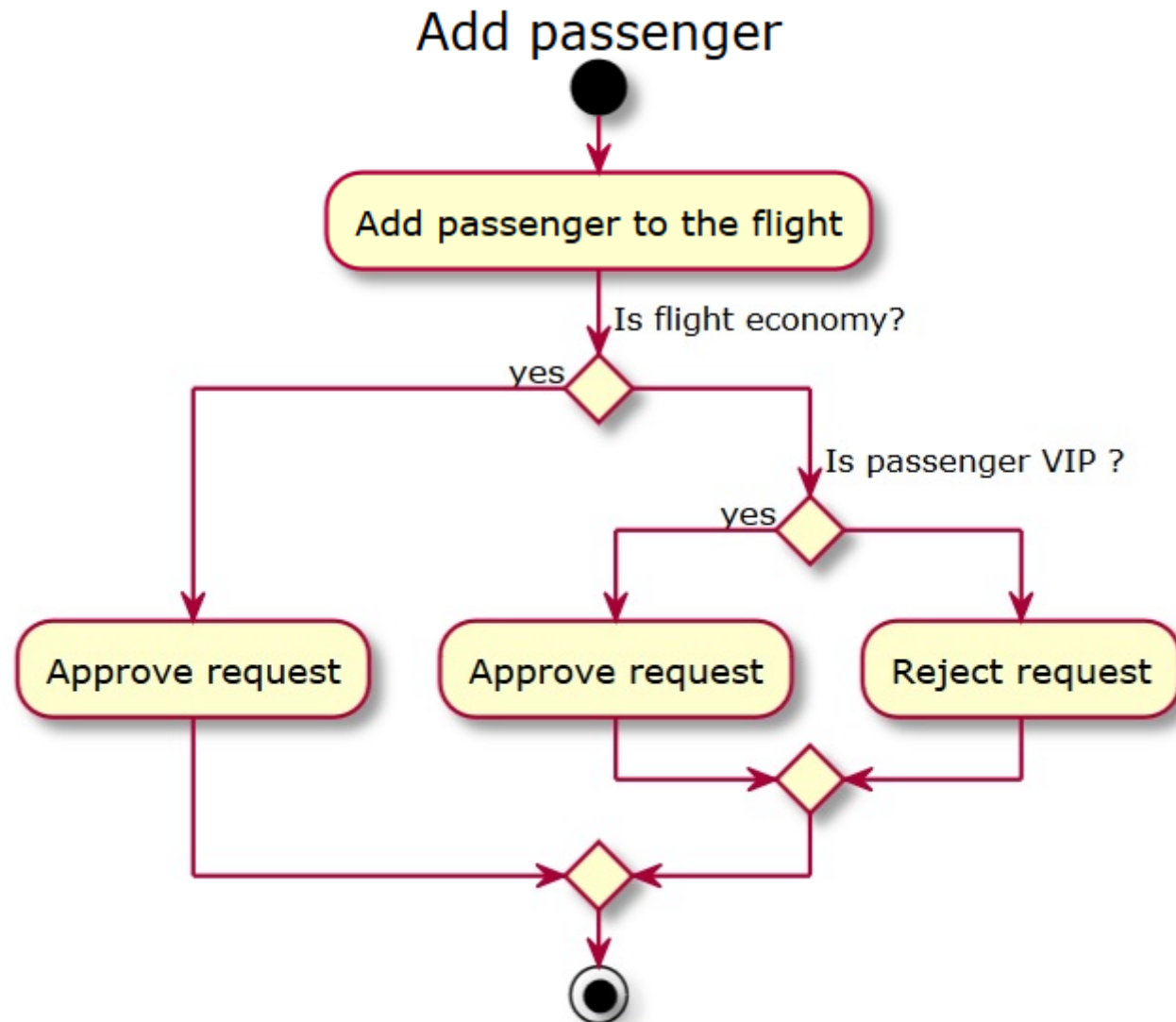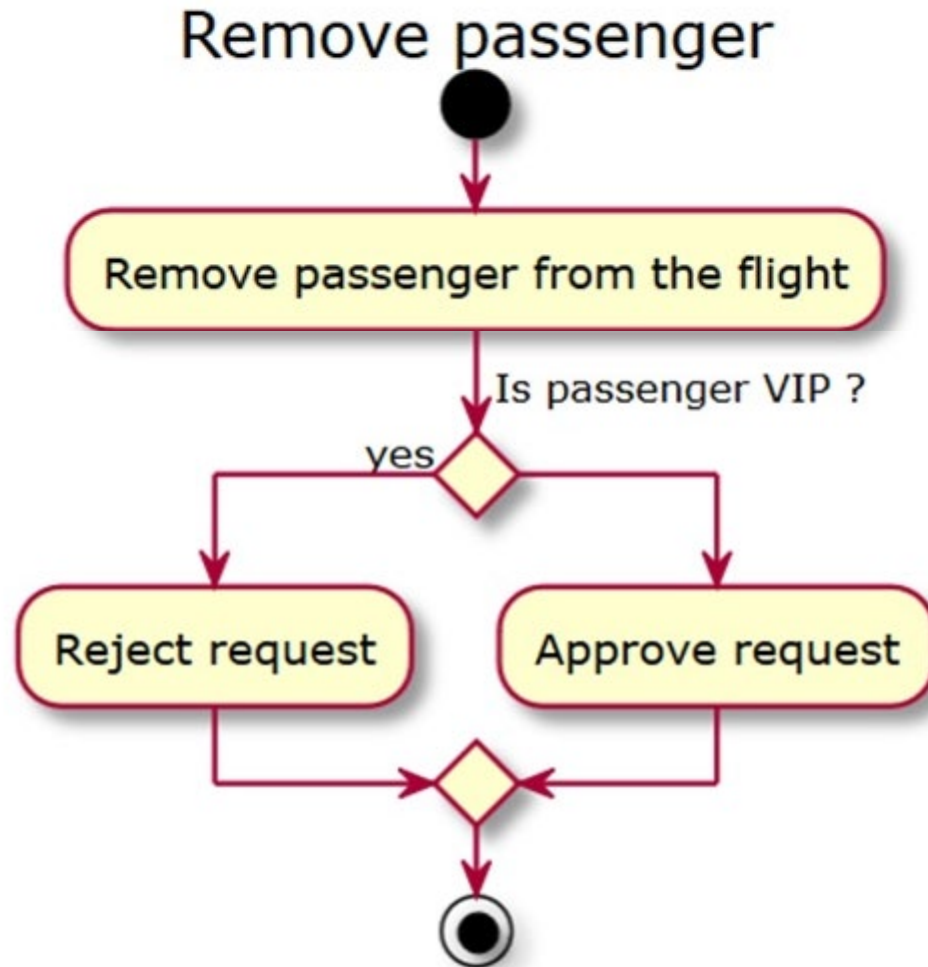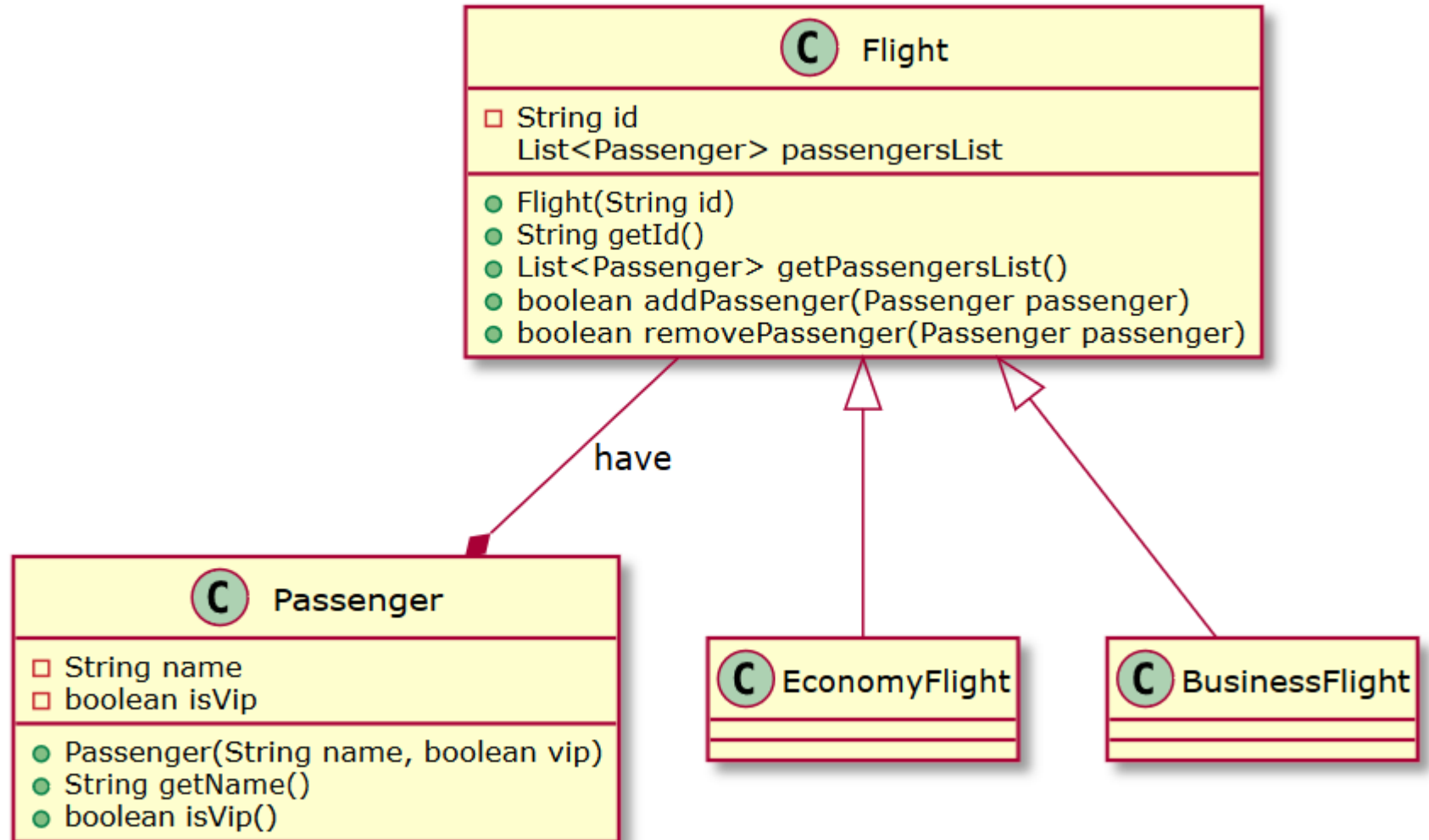
The Flights Management Application

Adding Passenger Business Logic

Removing Passenger Business Logic

Initial Application Design

Demo

Flight management application

- Simulate real life scenario
- Start from a TDD application

Check and understand its functionality

Run the existing unit tests

Measure code coverage

Rewrite the tests to focus on behavior using the facilities of JUnit 5

Summary

Differences between TDD and BDD

BDD benefits

BDD challenges

Flight management application

Make first steps from the TDD to the BDD application