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TDD -> A tale of two cities

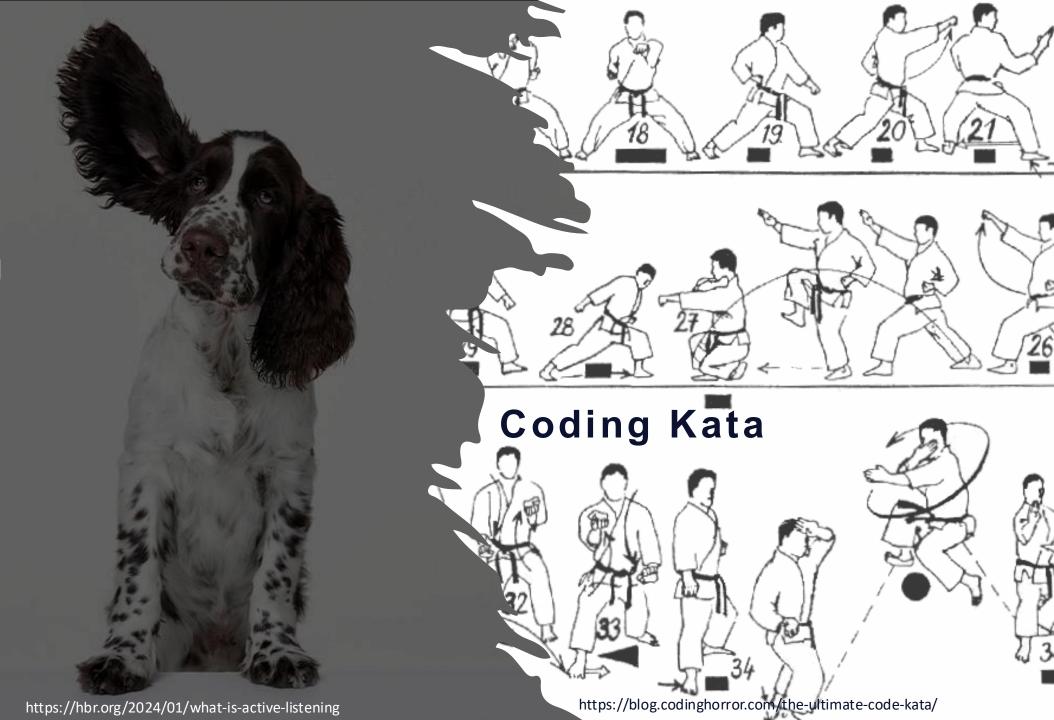
Andreas Kleinbichler, 26/09/2025, SoCraTes Linz

Speaker

```
first-name: Andreas,
surname: Kleinbichler,
jobtitle: Engineering Manager,
company: Admiral Technologies,
lovesDevOps: true,
lovesTDD: true,
stack: [
 "C#", "C/C++", "Angular", "SQL Server",
 "MongoDB", "RabbitMq", "Docker", "K8s",
 "AWS", "LINUX"
```



Active listening

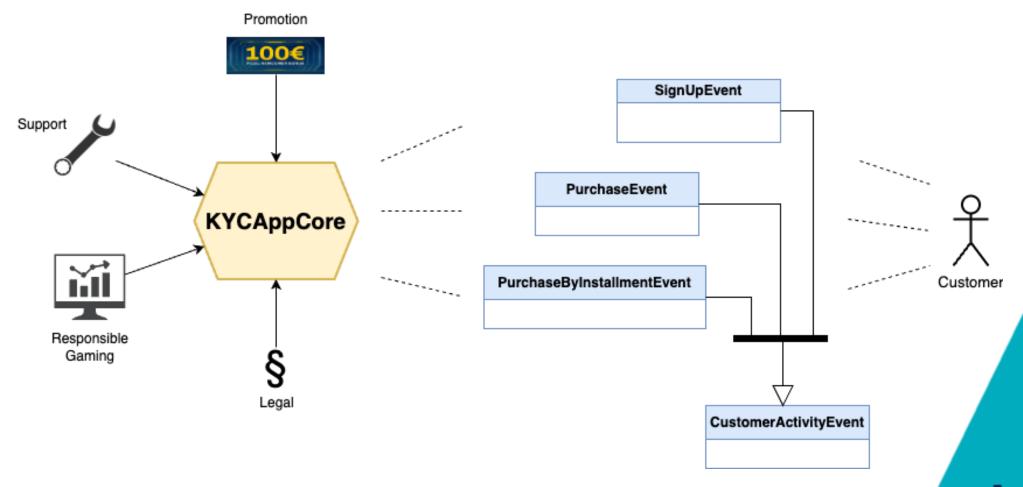


Link to Github

https://github.com/AndiKleini/KnowYourCustomer



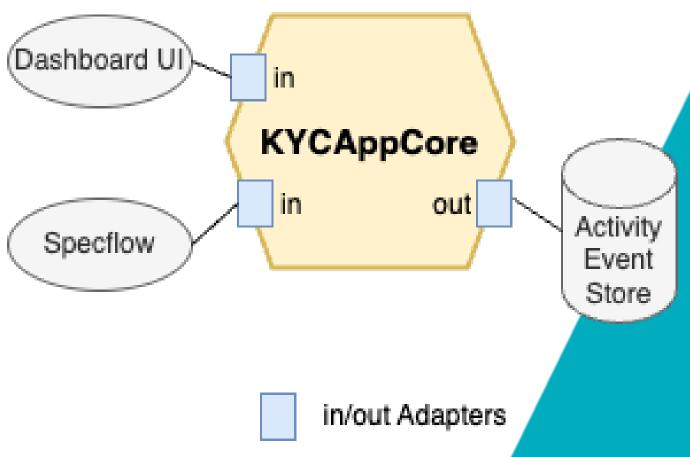
KYC at Admiral Technologies





Ports and Adapters

- Dependencies are resolved from outside to inside (never vice versa)
- Separate business logic from infrastructure or external clients by im-plementing adapters for communication

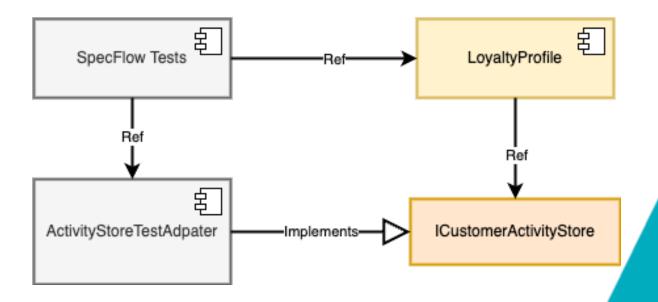




Dependencies

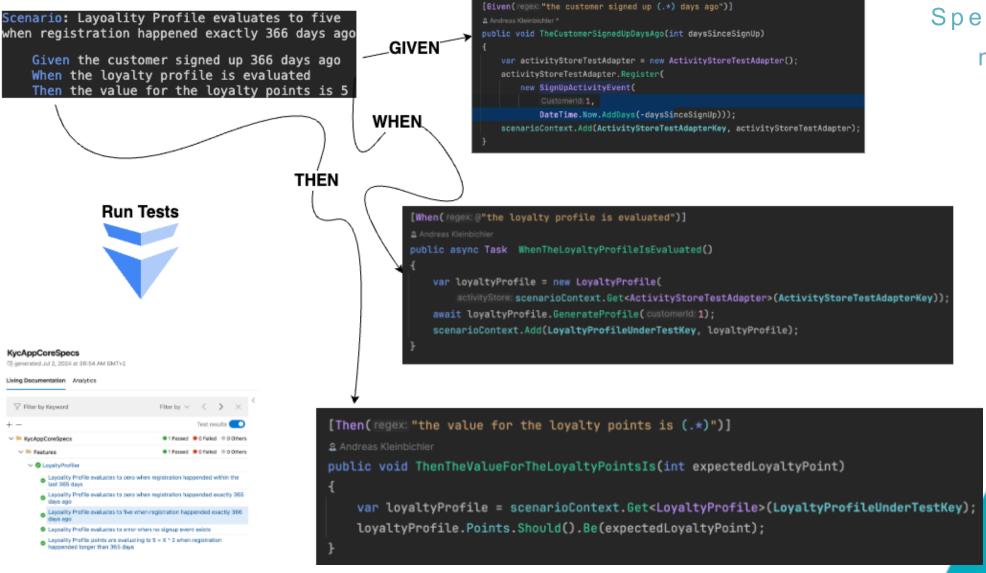
The loyalty profile (*Loyalty-Profile*) depends on the customer's activity store (*ICustomerActivityStore*) for accessing (pulling) required activity events.

The store's behavior is mocked during test exe-cutions by some hand rolled test adapter (*ActivityStore-Testadpater*).





Scenario (Gherkin)



SpecFlow in 5 minutes



The first user story

Story:

As a marketing manager I want to rank customers based on their loyalty, so that I can guarantee being fair with promotions.

Due to limited budget promotions must be restricted to the most loyal customers.

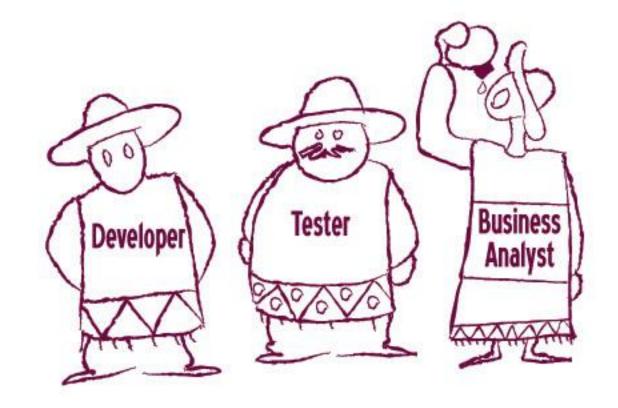
A proper ranking would support us in doing appropriate selections.

Example: I have a budget of 3000 € and I want to promote 100 customers with

30 €. How should I choose?



A new feature is requested



https://www.linkedin.com/pulse/three-amigos-desired-team-behavior-format-shereen-samuel



Add the specs

Scenario:

Loyalty Profile points are evaluating to 5 + X * 2 when registration is longer ago than 365 days and purchases with the amount of X were made within the last 30 days

Given the customer signed up <DaysPassedSinceSignUp> days ago
And the customer spent more than <MoneySpent> between <FromDaysAgo> and <ToDaysAgo> days ago
When the loyalty profile is evaluated
Then the value for the loyalty points is <ExpectedLoyaltyPoints>

Examples:

```
| DaysPassedSinceSignUp | MoneySpent | FromDaysAgo | ToDaysAgo | ExpectedLoyaltyPoints | | 500 | 30 | 0 | 105 |
```



Coding part starts here

Happy Coding



Takeaways

Try staying in the test method during writing your automated tests by

utilizing the IDEs

code generation features.

Switch between testing styles (Detroit, London, outside in, inside out,...) Concentrate on business language by writing your specs.

Stakeholders should explain the problem not the solution.
You have to understand the why.

For each feature start with a failing test.

Make use of methods/patterns/ styles (e.g.: hexagonal architecture) to separate business aspects from infrastructure.





#teamADMIRALTECHNOLOGIES

Any Questions ?

Thank you very much

