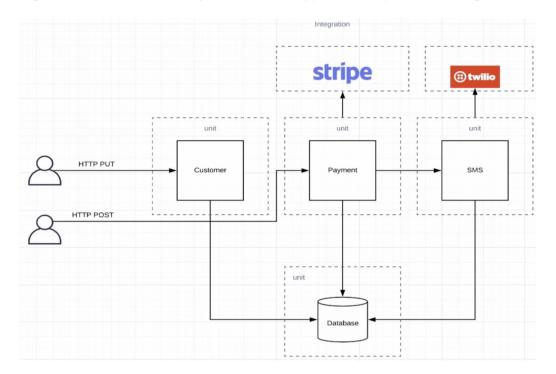
SECTION 06 - INTEGRATION TESTING

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- Intro

- In integration testing we test that all the pieces work together whereas the unit test focuses on the unit itself.
- Integration test means that you have the application up and running.



- Mock Stripe service

```
@ConditionalOnProperty(
    value = "stripe.enabled",
    havingValue = "false"
)
```

- Makes that with integration testing stripe is disabled so that every time we run our application Spring will initialize the mock service being injected instead of StripeService class.
- We can read it as: This bean will be initialized whenever the stripe.enabled property
 has the value of false.

Procedure:

```
→ From Stripe service:

@Service

@ConditionalOnProperty(
    value = "stripe.enabled",
    havingValue = "true"
    )

public class StripeService implements CardPaymentCharger {
```

```
    → From Stripe mock service:
    @Service
    @ConditionalOnProperty(
        value = "stripe.enabled",
        havingValue = "false"
        )
    public class MockStripeService implements CardPaymentCharger {
    → From application.properties
    stripe.enabled=false
```

According to the environment I set stripe enabled property as I need it.

- PaymentIntegrationTest class

- Add @SpringBootTest annotation on top of the class so whenever I run a test inside an integration test class, Spring will start the entire application.
- If I do:
 - → Given:

```
→ CustomerRegistrationController:
@RestController
@RequestMapping("api/v1/customer-registration")
public class CustomerRegistrationController {
   @PutMapping
   public void registerNewCustomer(
          @Valid @RequestBody CustomerRegistrationRequest request) {
       System.out.println(request);
   }
}
→ PaymentIntegrationTest:
@Autowired
private CustomerRegistrationController customerRegistrationController;
void itShouldCreatePaymentSuccessfully() {
   // given
   UUID customerId = UUID.randomUUID();
   Customer customer = new Customer(customerId, "james", "123");
   customerRegistrationController.registerNewCustomer(...);
```

- By injecting CustomerRegistrationController in the test class I'm not testing the API, instead I'm simply invoking the method directly. What I want to test is when I perform a PUT request to api/v1/customer-registration.
- In itShouldCreatePaymentSuccessfully() test case I "break a rule" by using:
 @Autowired
 private PaymentRepository paymentRepository;

in PaymentIntegrationTest because I don't have any endpoint to get a customer given its id.

