Problem 1

Payment templates

Customer of a bank creates a template for payment by entering the following properties:
- template title that maps to payment title (mandatory)
- addressee account number (optional)
- amount (optional)
- is international payment (mandatory)
- country (only for international)
- bank code (only for international)

Template can then be used to prefill data of the payment. The payment has the same properties as payment template and additionally date of execution.

Task:

How would you implement the following functions and why?

```
// just to make example easier, never do that!

void createTemplate(long userId, String title, String
addresseeAccountNumber, Decimal amount, boolean
internationalPayment, String countryCode, String bankCode)

List<?> listTemplates(long userId)

Payment createPaymentFromTemplate(long templateId)
```

Please describe classes that cooperate and underlying persistence solution.

Consider:

- new properties might be added to a payment

- creation of a payment template from a payment as a future requirement