NEW

Matador

2014 Edition

Group 51

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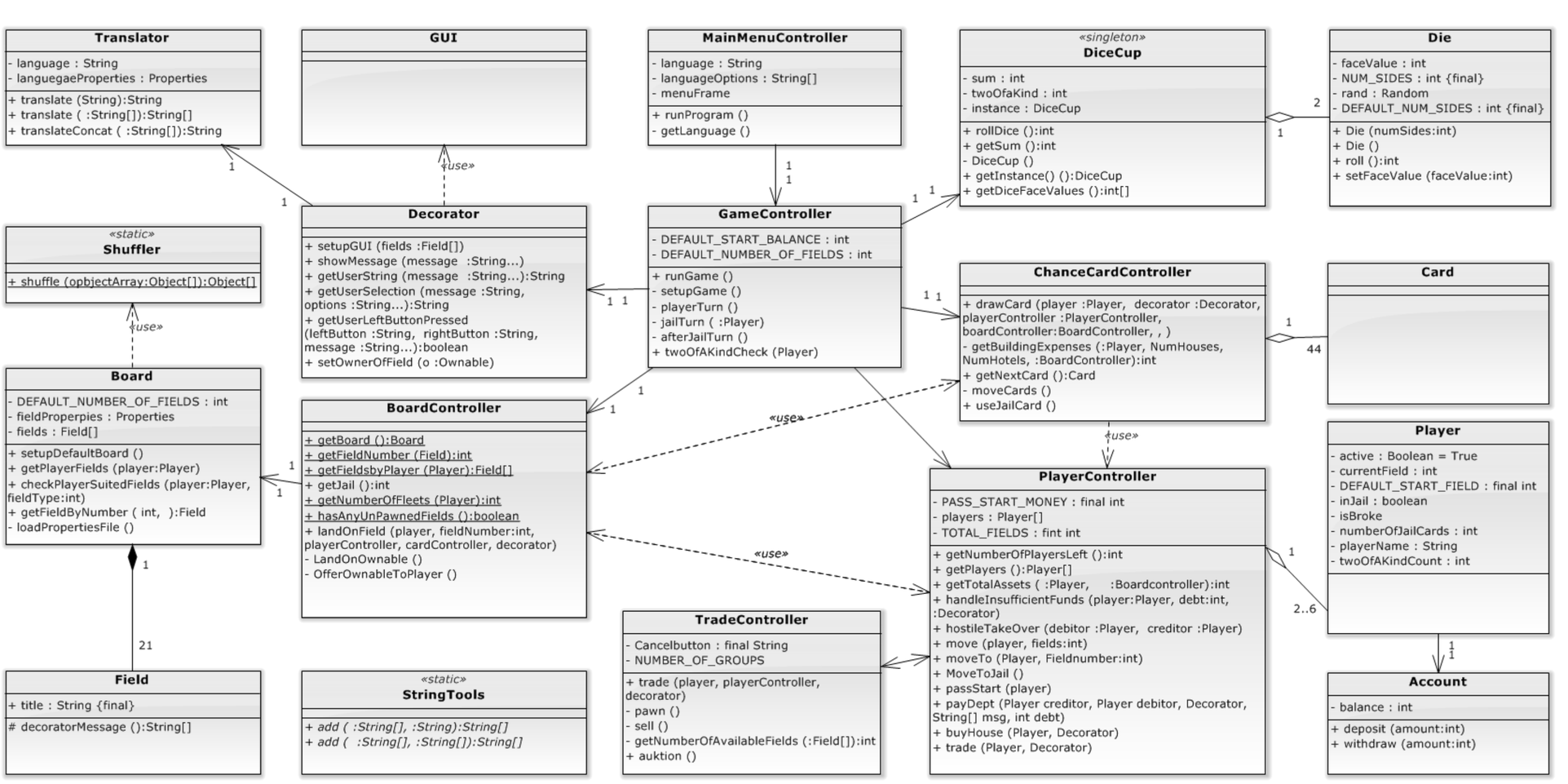
Overview

- Advanced handling of missing payment using exceptions
- Fully implemented Buying/Selling and Pawning of deeds
- Fully implemented Buying/Selling of Houses
- 44 chance cards
- Thematical soundtrack
- 3 fully integrated languages

Coded with:

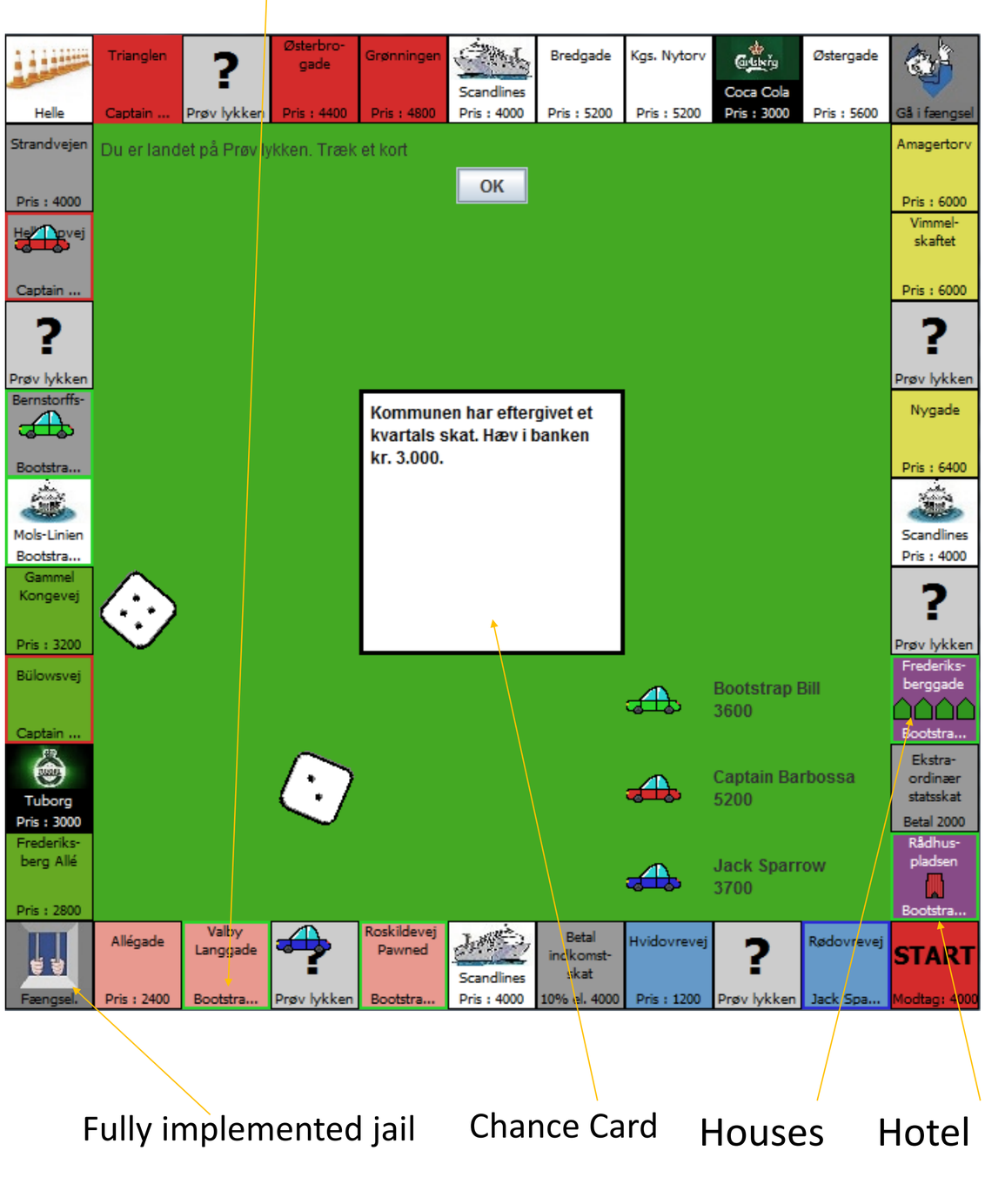
- Focus on keeping high supportability
- Strict adherence to the GRASP and BCE patterns
- Close adherence to the original board game



Design

Strong adherence to BCE
- Separated entities

GRASP:
- High cohesion
- Low coupling
- Polymorphic code
- Information expert
- Controller pattern
- Creator pattern
- Indirection
- Singleton pattern
- Static helper class and methods



Implementering: payDebt()

```
PlayerController.java
94  public boolean payDebt(Player debitor, Player creditor, Decorator decorator,
                           String[] msg, int debt) {
95      boolean debtPayed = false;
96      while (!debtPayed){
97          decorator.showMessage(msg);
98          try {
99              debitor.getAccount().withdraw(debt);
100             if (creditor != null) {
101                 creditor.getAccount().deposit(debt);
102             }
103             debtPayed = true;
104         } catch (InsufficientFundsException e) {
105             //insufficient funds to pay player
106             System.out.println("Insufficient funds for transaction");
107             //If player has any unpawned fields, he is forced to pawn them
108             if(BoardController.hasAnyUnPawnedFields(debitor)){
109             String[] msg1 = new String[]{"YouMustAtLeastPawnAllFields"};
110             decorator.showMessage(msg1);
111             handleInsufficientFunds(debitor, debt, decorator);
112             } else {
113                 //Else he can choose between trying to raise money
114                 String[] messageString = new String[] {"TradeOrGoBroke"};
115                 String[] buttons = new String[] {"Trade","Bankrupt"};
116                 int selection = decorator.getUserButtonPressed(messageString,
                        buttons);
117                 if (selection == 0){
118                     handleInsufficientFunds(debitor, debt, decorator);
119                 } else {
120                     hostileTakeOver(creditor, debitor);
121                     break;
122                 }
123             }
124         } catch (IllegalAmountException e) {
125             System.err.println("IllegalAmount LandOnOwnable");
126             e.printStackTrace();
127             break;
128         }
129     }
130     return debtPayed;
131 }
```