CRC Model

# Deck of Cards Library

This document describes the class-responsibility-collaboration model for the Deck of Cards system.

The first model is the Card class. It has 2 properties, Suit and Value. It collaborates with the Deck class and the Suit Enum.

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| Card | |
| Suit  Value (1 – 9, J-Ace) | Deck  Suit |

This model is an Enum representing the different types of suits a card could be.

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| Suit | |
| Hearts  Spades  Diamonds  Clubs |  |

This model is the Deck class and maintains a stack of cards, allows the cards to be shuffled, drawn from, and reset. It only collaborates with the Card class.

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| Deck | |
| Stack of Cards  Shuffle  Draw One  Reset | Card |

# Rest API

This represents the DeckController REST API. We will use Spring MVC and Spring Boot to deploy this REST API. It will expose 3 methods of the Deck of Cards library:

1. Shuffle
2. Drawing one card
3. Reseting the deck

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| DeckController | |
| Shuffle the deck  Draw from the deck  Reset the deck | Deck  Spring MVC  Spring Boot |