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BlackJack Design:

The UML diagram below is an outline of the classes I have for the Java part of the project. The MainActivities class controls the game based on the user input from activity_main. The Game class represents a game of blackjack, and has 2 Players: one is a Dealer and one is the User. Each of those inherit from the abstract Player class, since they share attributes and methods. Each Player has a Hand which consists of an array of Cards, with some limits as specified by the requirements (2-5 cards, can't go over 21, etc.). Cards are objects that have a Suit (diamonds, clubs, spades, hearts) which is an enumerated type, and an integer value (numerical value in context of blackjack- king = 10, etc.). The deck is a Stack of 52 Cards and has the ability to shuffle itself when the shuffle() method is called by the Game. The Ace card is a special case where if the Hand value is over 21, the Ace card's value becomes 1.

