Deck of Cards

As a magician, I'd like to shuffle, draw and sort cards so that I can perform magic tricks

Acceptance Criteria

1. Can I shuffle the deck of cards?
2. Can I draw any given number of cards from the deck, with the cards being removed from the original deck?
3. Can I draw any given number of cards from the deck and then sort the drawn cards, with the cards being removed from the original deck?
4. Sorted cards are sorted by suit: Clubs, Spades, Hearts, Diamonds; then by value: Ace is high.

Back of card (Technical Constraints):

1. A simple User Interface is fine – though we’d love to see what you’re capable of!
2. Use javascript (or your preferred javascript framework) to develop a web application. There is no requirement for server interaction
3. We are happy for you to use external frameworks (e.g. jquery, Sencha, etc) especially for testing. Do not however copy large block of code from the internet.
4. Use best in industry engineering practices – for example structured code, commenting, extensible, modularised and seperation
5. Ensure that your code is well tested.

Guidance

Please come prepared with your laptop setup to allow you to develop a web application in javascript. There is no requirement for server interaction. We are happy for you to use external frameworks (e.g. jquery, Sencha, etc) especially for testing, so come with your preferred tooling installed, configured and tested.

Please deliver a documented design – in a tool, on paper with a photo taken (the media is unimportant)

Please provide us with build/test/run instructions as well as the codebase, you could use github if you are familiar with it. It will be bonus if you have used it to deliver code analysis, and a build/test process.

We wouldn't ask anyone to do a coding puzzle that we haven't done ourselves, so the people looking at your code understand the problem we are asking to be solved.

It took us around 3 hours to do this, so please use this as an indicator of effort required.

We are keen to see how much you think is enough, how much would go

into a Minimum Viable Product, and what is left to be done. Please ensure what you do is complete as you would deliver to the client. We will value client ready code over poorly structured/commented feature rich code.

As a guide, elegant and simple wins over feature rich every time

Do you test drive your code? This is something we value. We also consider the extensibility of the code produced. Well-factored code should be relatively easily extended.

Thanks and good luck.