



MITA

DESIGN & DEVELOPMENT

HANDCRACKED

CRACKIN' YOUR HEAD AND HANDS

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MIKE TAATGEN

Web Developer

407-920-8440

mike@mitadnd.com



## INTRODUCTION

### Project Overview

Handcracked is a equity calculator for poker players and pros. Users are able to submit their hand history to their database and interact with a nice equity manager to see how their win percentage would change on the fly with the different cards coming down on the board.

For the database i will be using mongo db. I'll have to work with a lot of arrays and thought this would be a nice way to learn more about mongo db as well. The player hand, the opponent hand are both 2 cards so I will be making this in an array and then opening the array up to calculate with the values. The board will be an array of 5 cards where you grab the first 3 cards and do a calculation on the flop. It then grab the 4th card do another calculation with that. and finally the 5th card and do another calculation with that.

I will be writing the code in PHP using the fat-free framework.

## PURPOSE STATEMENT

Handcracked will making calculation your hand win % much easier. Just click on the hand you had and your opponenet. Make up the board and the win % will change depending on where the slider is. Users are ables to save their hands to the database and calculate with average win % they get from playing the cards they play. I choose this type of application because I feel that a lot of players will benefit a lot from this .Even after the big market boom of online poker playing the rise of online poker playing continued. Poker broadcasts use this calculation in their broadcast and i feel like this owuld be a great way to have a website for this. There are several application that do excist allready but they have no database feature and you have to download a whole program just to get the stats.

I feel like this will benefit players a lot so that they can adjust their game plan to make the best possible plays that are required.

This is an example on how i will save it to the databse and do calculations with this:

```
db.handcracked.save({
  username:"Example",
  password:"password",
  hands:[
    "yourhand":["Aceheart","Kingclubs"],
    "theirhand":["10clubs","10hearts"],
    "board":["8heart","4clubs","2clubs","6diamond","10spades"]
  ]
})
```

pre-flop = [yourhand + board[0] + board[1] + board[2]] v/s [theirhand + board[0] + board[1] + board[2]]

flop = [yourhand + board[0] + board[1] + board[2]] v/s [theirhand + board[0] + board[1] + board[2]]

turn = [yourhand + board[0] + board[1] + board[2] + board[3]] v/s [theirhand + board[0] + board[1] + board[2] + board[3]]

## FEATURE

Version 1 Features - This version will have a landing page where the user can login real simple for now with a username and password that is stored in the database. Or they can create a quick username and password to the database. On the landing page they see a nice history of the hands history in the database . When the user clicks on it there's a nice visualization and interaction of the hand.

Version 2 Features - The user login and sign up for this page is much much more secure. The user can now also login with their facebook account. This visualization and CSS for the application will be much nicer. There will be extra features where you can compare with multiple opponents because sometimes you play a pot with more then 1 opponent. I would like to have a mathematical calculation where the user can just add a plain card suit for example any heart or any clubs.

## PROJECT TIMELINE

**Monday, 12 May 2014:**

Complete the PRD, Design , Wireframes and documentation  
Est: 4 Hours

**Wednesday, 14 May 2014:**

Setup the databases and create the landing page with a working login and registration  
Est: 6hours

**Thursday, 15 May 2014:**

Figure out the mathematical code for the application  
Est: 4hours

**Friday, 16 May 2014:**

Create the admin page, user page without the interaction yet.  
Est: 6 Hours

**Saturday, 17 May 2014:**

Create the interaction page  
Est: 6 Hours

**Sunday, 18 May 2014:**

Add some nice features, Style it up, fix problems  
Est: 8 hours

## GITHUB LINK

This will be my working repo for this application;:  
<https://github.com/bogoroh/handcracked.git>

## WIREFRAMES

Localhost:8888/

Logo

Login:

Password:

Sign up



## WIREFRAMES

Localhost:8888/admin

Logo

## username

AhKh v/s 10h10c

edit - delete

8c3h v/s Jc4c

edit - delete

## username

QhQh v/s Ah10c

edit - delete

AhAd v/s 4h3c

edit - delete



## WIREFRAMES

Localhost:8888/signup

Logo

Username/email:

Password:

Retype password:

Create

## WIREFRAMES

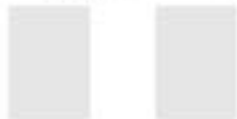
Localhost:8888/user/edit/?

Logo

Your hand



Opponent hand



Board



Edit Hand

A	8		
2	9	♥	♠
3	10		
4	J	♦	♣
5	Q		
6	K		
7			

## WIREFRAMES

Localhost:8888/user/?

Logo

Your hand



Win percentage: ?? %

Board



Opponent hand



Win percentage: ?? %



Return

I = logo

## WIREFRAMES

Localhost:8888/user

Logo

Welcome User!

AhKh v/s 10h10c

edit - delete

8c3h v/s Jc4c

edit - delete

Adds

Add hand