## **Application Features**

## R6 - Content Search

One of the core features of our application is the ability to search for and view information about any given hand that a user has played. While conceptually simple, the implementation will make use of every part of our technology stack. To find a played hand, its unique identifier and a player name must be given by the user in our web interface. From there, using account data, we can query our database for results from all of the relevant tables (player\_action, player\_cards, board\_cards) using predicates such that only data associated with the desired user is selected. This data is then sent back to the front-end for viewing. If no player name is given, it will default to the user searching the database.

An example of how this feature will look can be seen in our database-driven application submitted with Milestone 1.

The query template is as follows:

where the selected data can only come from rows where the inputted hand\_id (1) and player name (2) match with the queried tables. Note that temporary table 'p' is to translate a player's name to its associated player\_id. We do this to allow us the flexibility to implement searching by user.

If we use the data below in a sample query,

```
poker_hand: 1, 1, 1, Cash, 0.1, 0.1, CAD, 0.1, 0.1, January 8 04:05:06 1999 PST, Gaussia, 6
player: 1, Ted
player_action: 1, 1, 1, 1, Folds, 0.01
player_cards: 1, 1, 1, AC, AS, 1, 0.1
board_cards: 1, 1, AC, 2C, 3C, 4C, TC
We expect the output to be
```

[(1, 'Ted', Decimal('0.10'), 'AC', 'AS', 1, Decimal('0.01'), 'AC', '2C', '3C', '4C', 'TC')]