



RECORD THROWS

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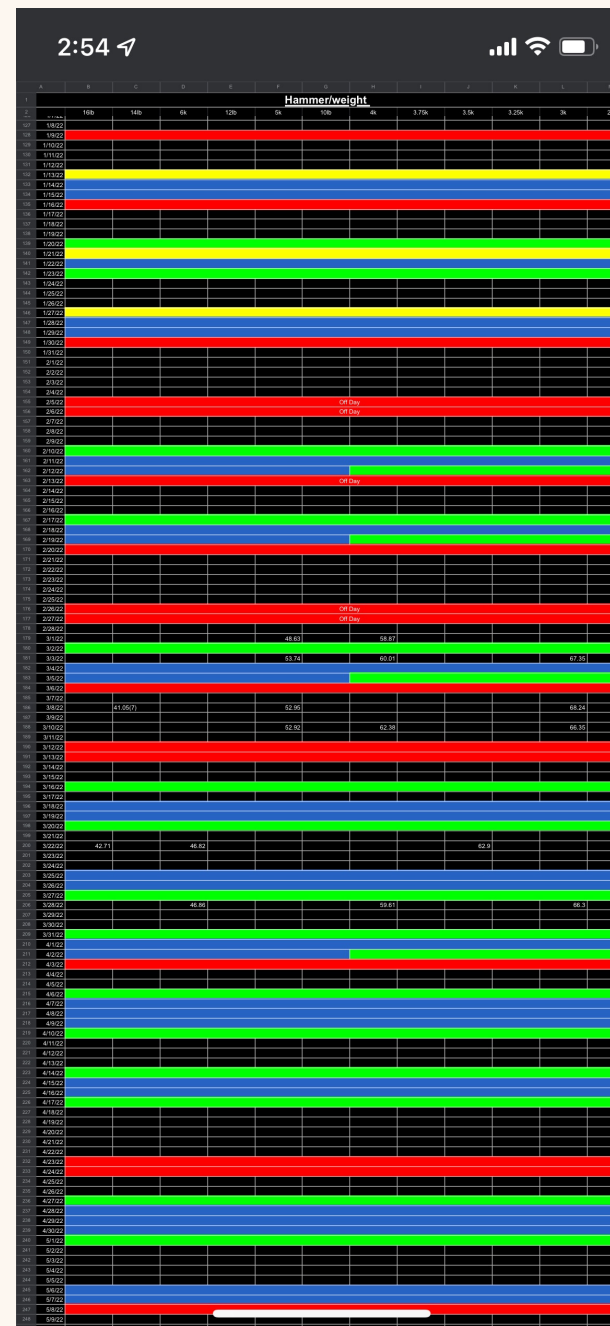


DATA TRACKING APPS



TRACKING THROWING DISTANCES

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Hammer/weight												
2		16lb	14lb	6k	12lb	5k	10lb	4k	3.75k	3.5k	3.25k	3k	2k
203	3/25/22												
204	3/26/22												
205	3/27/22												
206	3/28/22			46.86				59.61				66.3	72.43
207	3/29/22												
208	3/30/22					55.29		63.83				69.36	75.66
209	3/31/22												
210	4/1/22												
211	4/2/22												
212	4/3/22												
213	4/4/22	41.06			49.5				64.14				
214	4/5/22					56.29		63.73				70.82	
215	4/6/22	4.5k 56.40, 3.5k 63.37, 2k 75.66											
216	4/7/22												
217	4/8/22												
218	4/9/22												
219	4/10/22												
220	4/11/22												
221	4/12/22	39.32			48.48				62.45				
222	4/13/22					53.86		62.85				68.95	
223	4/14/22												
224	4/15/22												
225	4/16/22												
226	4/17/22												
227	4/18/22												



RELATED APPS

- Sport Specific Apps
 - *Homecourt*
 - *Apps for golfers*
 - *ASICS Runkeeper*
 - *Nike Run Club*
- Apps that help throwers
 - *JEFIT*
 - *Technique*
- Current methods of distance tracking
 - *Google Sheets*
 - *Throwing Journal*
 - *Microsoft Excel*



OBJECTIVES

- Create a platform independent app that allows throwers to record, store, and track throwing distances
 - *Coaches and athletes create own accounts*
 - *Accounts can be linked*
 - *Add distances for both practices and meets*
 - *Display data using graphs, tables, and calendars.*

INITIAL DESIGN – AUTHENTICATION

LOGO

username

password

Log In

New here? [Sign Up](#)

CREATE Account

name

email

password confirm

Status:

Events

<input type="button" value="Hammer"/>	<input type="button" value="Weight"/>
<input type="button" value="Discus"/>	<input type="button" value="Shot Put"/>

Gender:

SIGN Up

Have account? [Log in](#)

Drop down section on Athlete selection

< Profile

Molly Leppelmeier
Athlete

Events

Hammer	64.62
Shot put	16.18
Discus	52.36
Weight	20.69

Coach: Keith McBride (+)

Notifications:

Jay Leppelmeier would like to add you as an athlete x

Only show for athletes

slide to delete

pop up about sharing personal info

INITIAL DESIGN – DISPLAYING DISTANCES

CALENDAR

JANUARY 2022

SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Hammer

4k — Distance

5k — Distance

Shot

4.5k — Distance

4k — Distance

PERSONAL RECORDS

HAMMER

WEIGHT	DATE	Distance

SHOT PUT

WEIGHT	DATE	Distance

TRACKING

HAMMER

4k x 5k ☒

TRACKING

DISTANCE

DATES

SHOT PUT

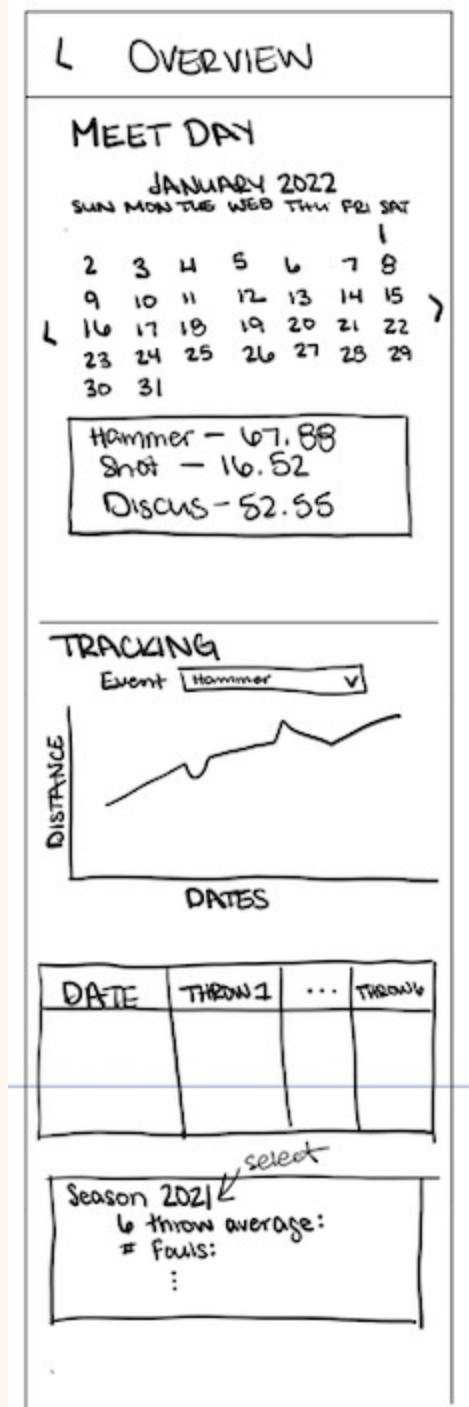
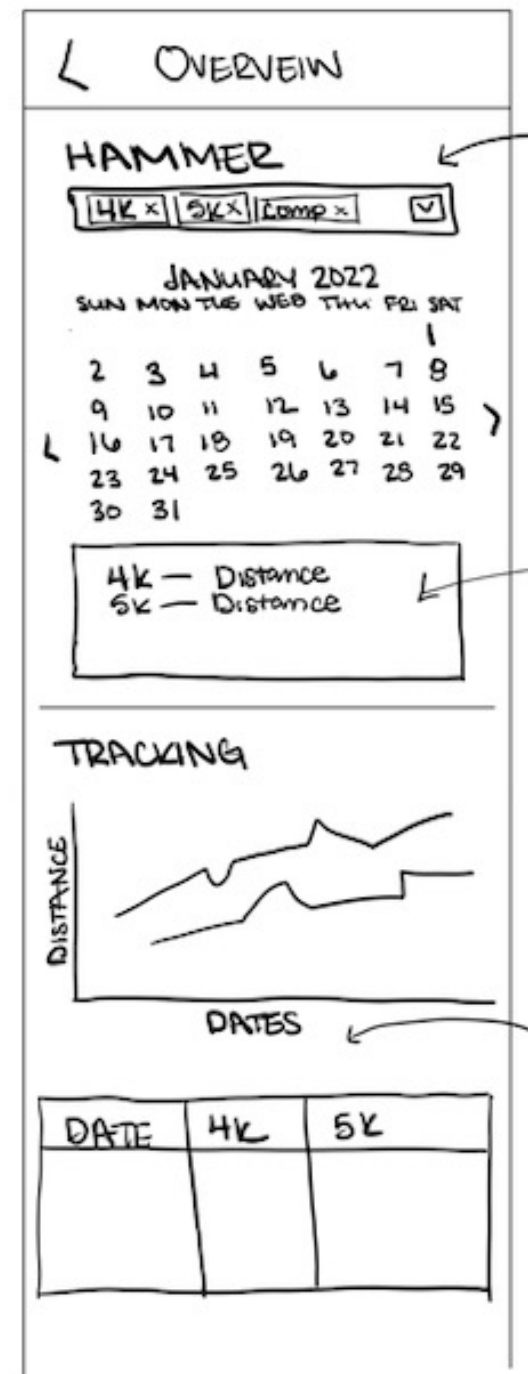
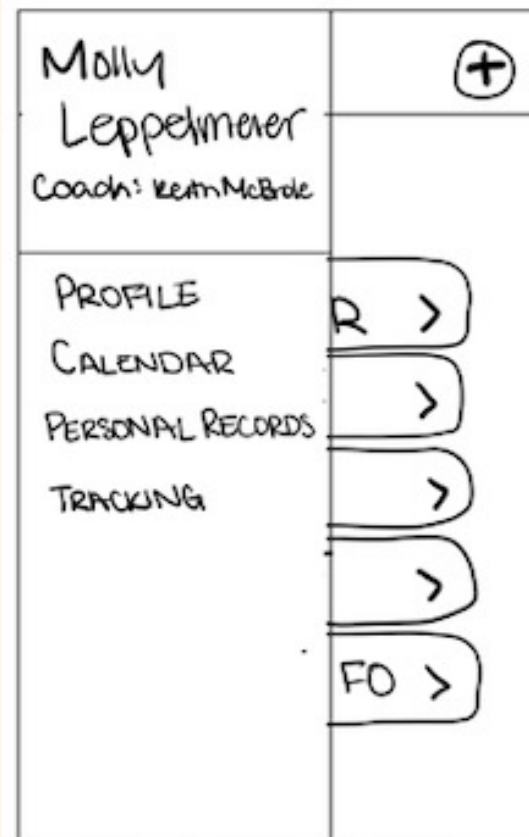
4k x 5k ☒

TRACKING

DISTANCE

DATES

INITIAL DESIGN – NAVIGATION



INITIAL DESIGN – ADDING DATA

⌂ Data Info

Hammer EDIT
Date

4k	<u>65.81</u>
5k	<u>55.90</u>
6k	<u>50.40</u>

Worked on stepping early and not dropping the ball

⌂ ADD DATA

✓

✓

Meet day ☒

Throws

<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

Notes:

⌂ ADD DATA

✓

✓

Meet Day ☒

✓

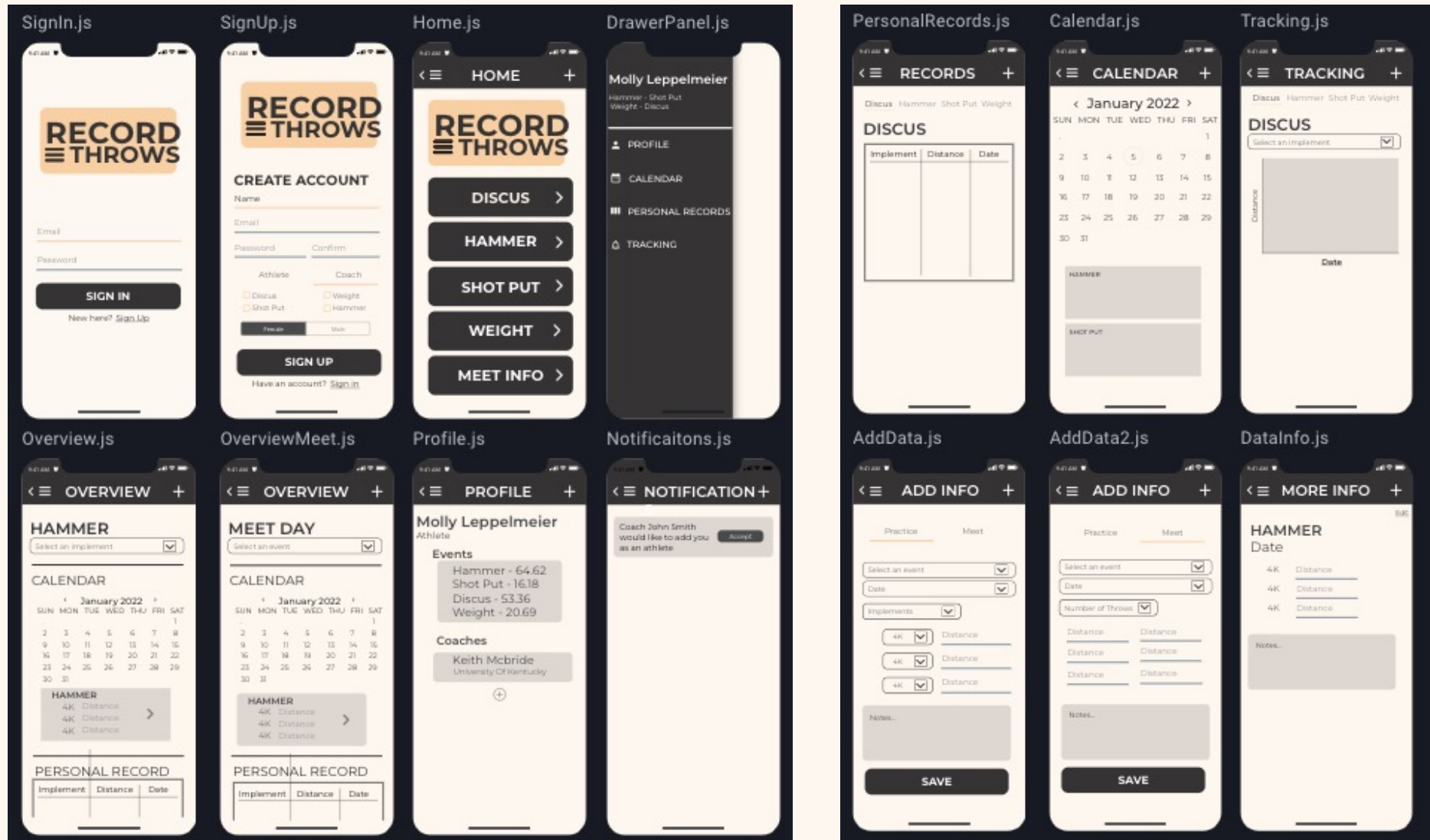
<input type="text" value="4k"/> ✓	<input type="text" value="Distance"/>
<input type="text" value="5k"/> ✓	<input type="text" value="Distance"/>
<input type="text" value="6k"/> ✓	<input type="text"/>

Notes:

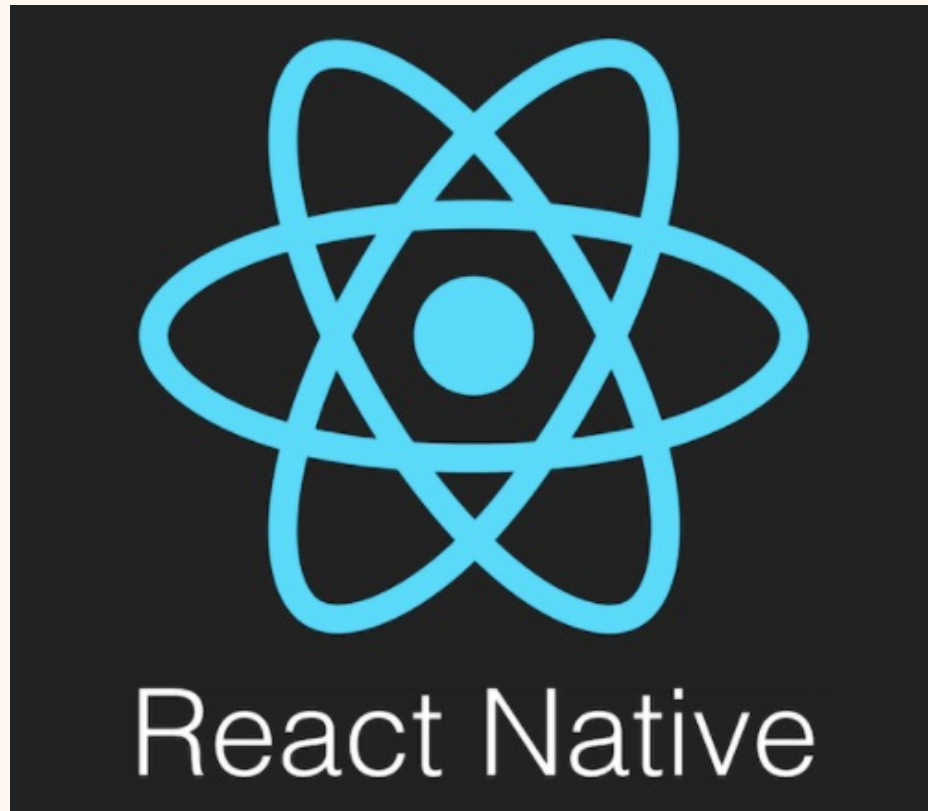
LOGO DESIGN - CANVA



FINAL DESIGN – BUILDERX



SET UP



Firestore



Redux

VIDEO



DATABASE STRUCTURE

■ Collections

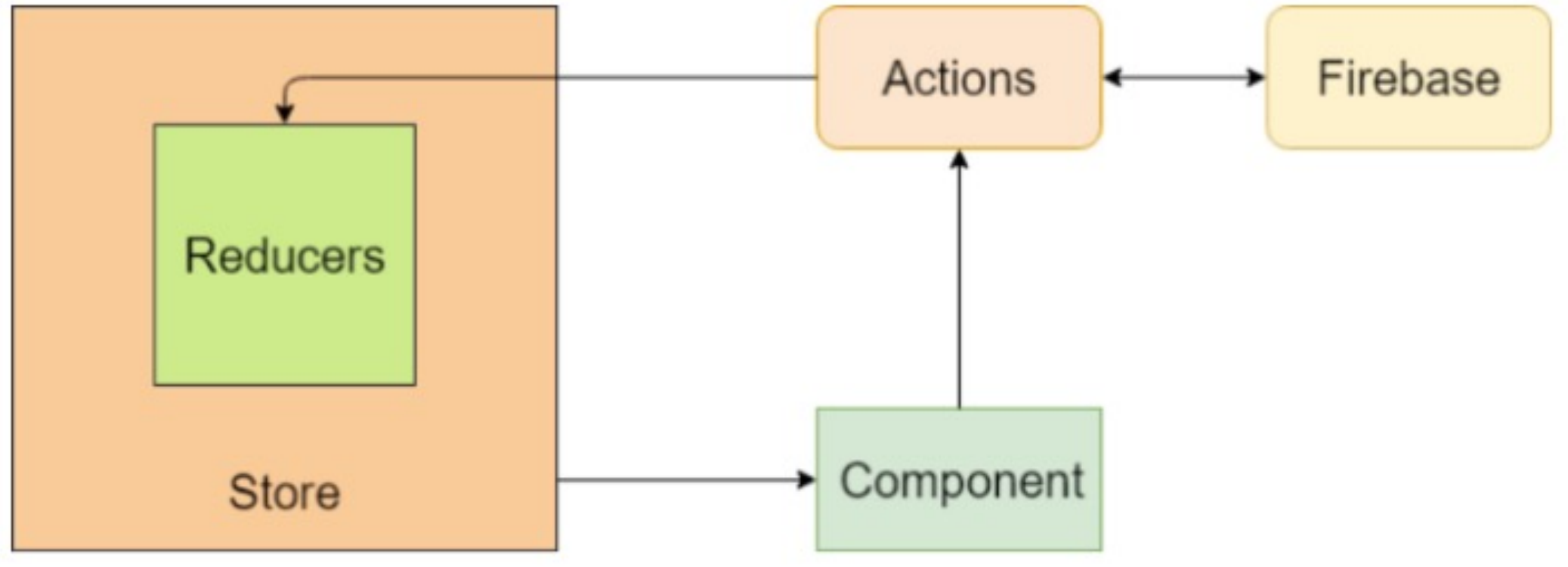
- *Users*
- *Hammer*
- *Shot Put*
- *Discus*
- *Weight*
- *HammerMeet*
- *Shot PutMeet*
- *DiscusMeet*
- *WeightMeet*



The screenshot shows the MongoDB Hammer collection in a web interface. It displays two documents. The first document, with key 'sg9YZSNFBWYZDq1eXZuy8ZtcBP03', has a date of 'March 3, 2022 at 12:00:00 AM UTC-5' and a 'formattedDistances' array with three entries: index 0 (distance: 53.74, implement: '5k'), index 1 (distance: 60.01, implement: '4k'), and index 2 (distance: 67.35, implement: '3k'). The 'notes' field is an empty string. The second document, with key 'LTIHwaZx9aKn6r8BFYoY', has a date of 'October 13, 2021 at 12:00:00 AM UTC-4' and a 'formattedDistances' array with two entries: index 0 (distance: 63.42, implement: '4k') and index 1 (distance: 65.26, implement: '3k'). The 'notes' field is also an empty string.

```
Hammer
  sg9YZSNFBWYZDq1eXZuy8ZtcBP03
    date: March 3, 2022 at 12:00:00 AM UTC-5
    formattedDistances
      0
        distance: 53.74
        implement: "5k"
      1
        distance: 60.01
        implement: "4k"
      2
        distance: 67.35
        implement: "3k"
    notes: ""
  LTIHwaZx9aKn6r8BFYoY
    date: October 13, 2021 at 12:00:00 AM UTC-4
    formattedDistances
      0
        distance: 63.42
        implement: "4k"
      1
        distance: 65.26
        implement: "3k"
    notes: ""
```


REDUX STRUCTURE



IMPLEMENTING SCREENS

- Database Safety
- External Libraries
- Styling Screens
- Changes to Design

TESTING

- Positive Features

- *Fast load and reaction times*
- *Quickly pushes and pulls from database*

- Improvements

- *Customize the implement list*
- *Adjust date*
- *Edit entries*
- *Edit and update profile information*

USER TESTING - TEAMMATES

- Positive features
 - *Clean and functional design of the app*
 - *Data is displayed after entry*
 - *Ease of entering data*
 - Efficiency of the drop down implement option
- Improvements
 - *Navigate to the data display screen after data is entered*
 - *Tutorial for first time users*

USER TESTING – COACH MCBRIDE

- Positive features
 - *Simplicity of the design*
 - *All the basic components he would want*
- Improvement
 - *Weight room tracking*

Future Features

- Import and an export option
- Include tracking for javelin
- Adding optional fields to each entry
- Goals section
- Enter throwing workouts before practice

Next Steps

- Continue implementation
- Extensive Testing
- Beta testing
 - *TestFlight*
 - *Google play*
- App stores

FINAL THOUGHTS

- [https://github.com/mnle239/RecordThrows.](https://github.com/mnle239/RecordThrows)
- Statistics
 - *12 screens*
 - *14 shared components*
 - *4 redux files*
 - *4,000 lines of code*