

Mixr

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About Mixr

Mixr is a web app created to help users create classic and unique drinks based on the ingredients at the user's disposal.

Mixr has the ability for users to upload their custom drinks for the Mixr community to see and try, as well as search for classic and custom drink recipes.

Tools That We Used

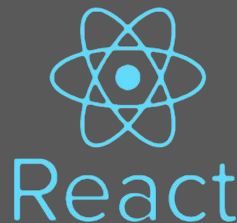
Project Tracker: Jira Software, Zoom, Groupme

VCS Repository: GitHub

Database: MongoDB

Backend: MongoDB Realm

Frontend: React Native library



Tools That We Used - Rankings



Jira Software: 3/5 stars - Jira is really useful for organizing who works on what, but we did not use it very much during this project due to the small scale.



GitHub: 5/5 stars - Github is essential for sharing team code and keeping application up-to-date with clean code.



MongoDB: 5/5 stars - Essential for allowing Users to interact with each other and share data non-locally.



MongoDB Realm: 5/5 stars - Important for making database CRUD operations and organizing data store.

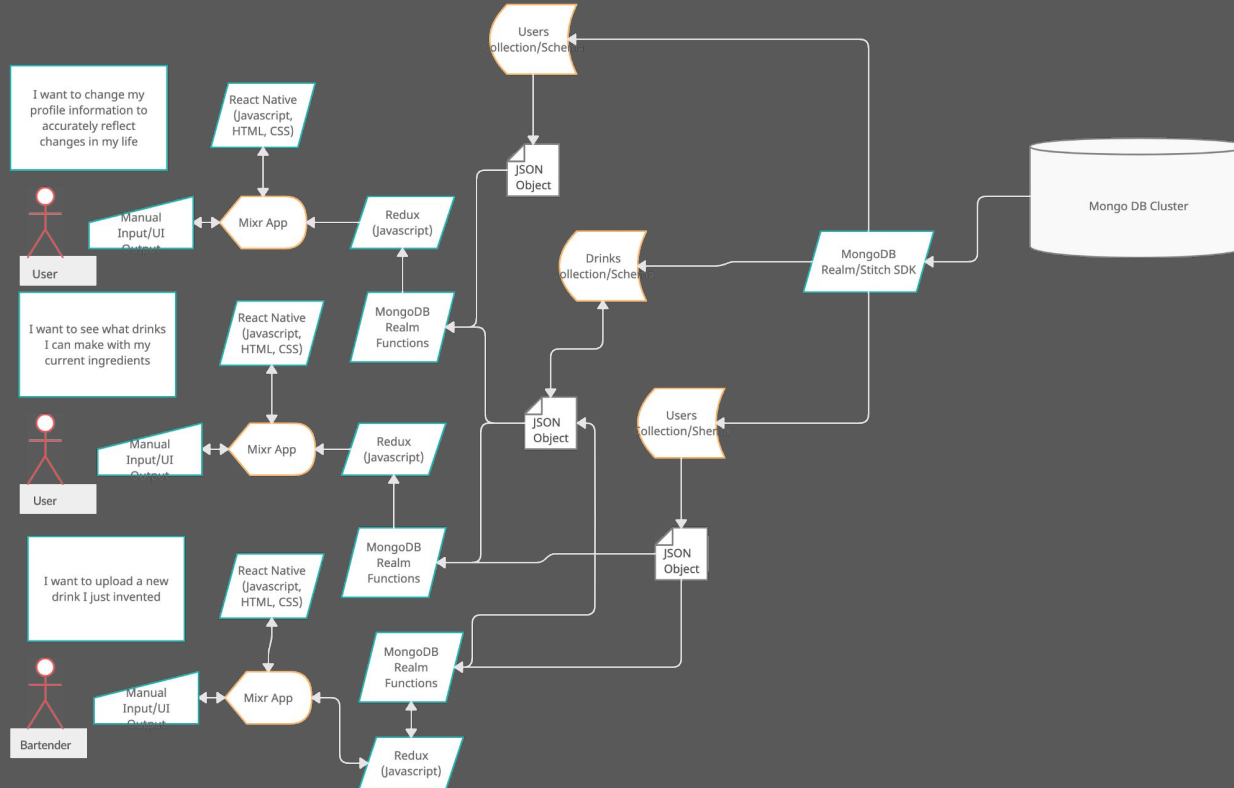


React Native: 5/5 stars - Fundamental to UI and general front-end functionality.

Development Methodology

We used agile in our development of Mixr, which was chosen due to the flexibility that it gives to developers. We ended up having to make several changes to our project plan as the semester went on, and agile's flexible approach allowed us to stay on track through the many changes we made.

Architecture Diagram



Challenges We Faced

1. Transferring the HTML pages we created to React Components.
 - a. Initially the pages of the app were written in HTML, but the project was meant to be a react project, thus quick conversions needed to be made.
2. A shortage of time.
 - a. We did overestimate our abilities, especially when considering our other commitments and thus needed to periodically make changes to the project.
3. Backend (mongoDB being a pain).
 - a. A lot of the integration process came with much headache, especially because mongoDB Realm is very strict with authentication. Thus a lot of extra work needed to go into creating a functional authentication flow.

Overcoming Challenges

1. Transferring the HTML pages we created to React Components.
 - a. We all met one day and essentially learned the basics of React Native. This allowed the team to independently convert the work that they had done prior.
2. A shortage of time.
 - a. We decided to moreso limit the scope of the project, which allowed us to more comfortably meet the deadlines.
3. Backend (mongoDB being a pain).
 - a. We tried a variety of different integration dependencies and APIs until we finally found one that worked. This gave us full use of our database for the project.

Demonstration
