

# Bindex

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A Belgrade Senior Center Solution

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# The Problem

Design a solution to:

- Store Member and Event information
- Take attendance at events
- Easily sort, filter and search data

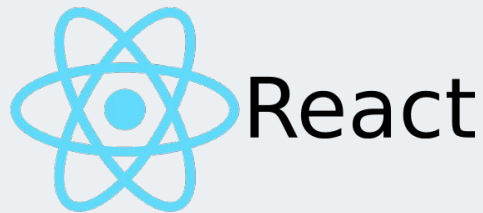
# The App

## Front End:

- React
- npm
- Node.js

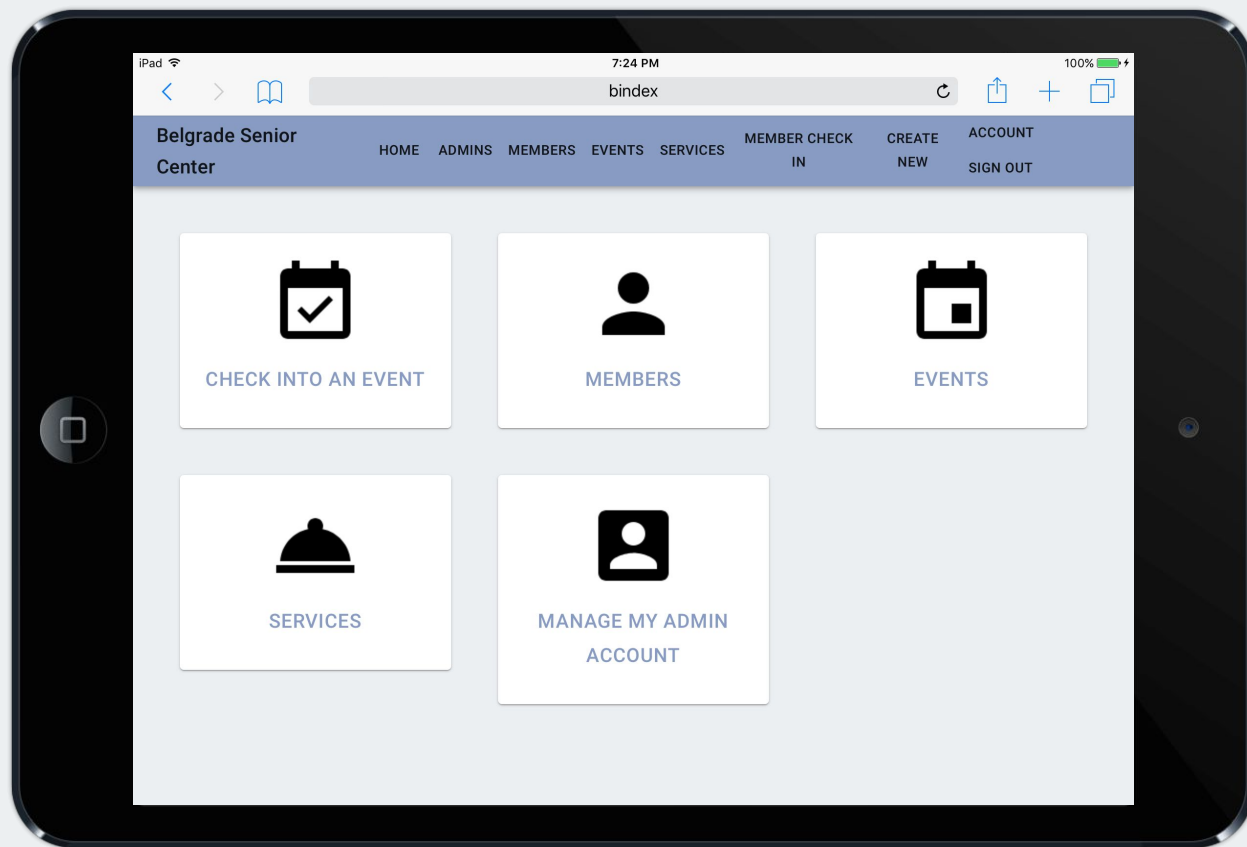
## Back End:

- Firebase Hosting
- Firebase Realtime Database
- Firebase Authentication



# The Interface

- Simple
- Large
- Intuitive
- Responsive



# Pages

Pages are built as nested components, so code reuse is easy and efficient.

- Home
- View Admins
- View Members
- View Events
- View Services
- Member Check In
- Create New
  - Admin
  - Member
  - Event
  - Service
- View Your Account
- Sign In/Out
  - Forgot Password

# The Data

## Firebase Realtime Database

### Documents:

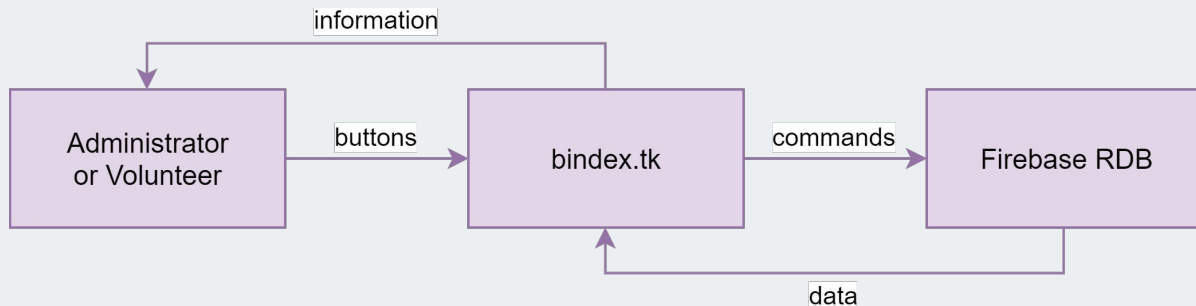
- Attendance
- Events
- Members
- Services
- Users (Administrator accounts)

```
belgradeseniorcenter
|-- attendance
|   |-- uid
|       |-- event_id
|       |-- member_id
|-- events
|   |-- uid
|       |-- eventStartTime
|       |-- eventEndTime
|       |-- eventDescription
|       |-- ...
|-- members
|   |-- uid
|       |-- firstName
|       |-- lastName
|       |-- streetAddress
|       |-- apartmentNumber
|       |-- ...
|-- services
|   |-- uid
|       |-- serviceStartTime
|       |-- serviceEndTime
|       |-- serviceDescription
|       |-- ...
|-- users
|   |-- uid
|       |-- email
|       |-- username
```

# Design Pattern

## Command Pattern

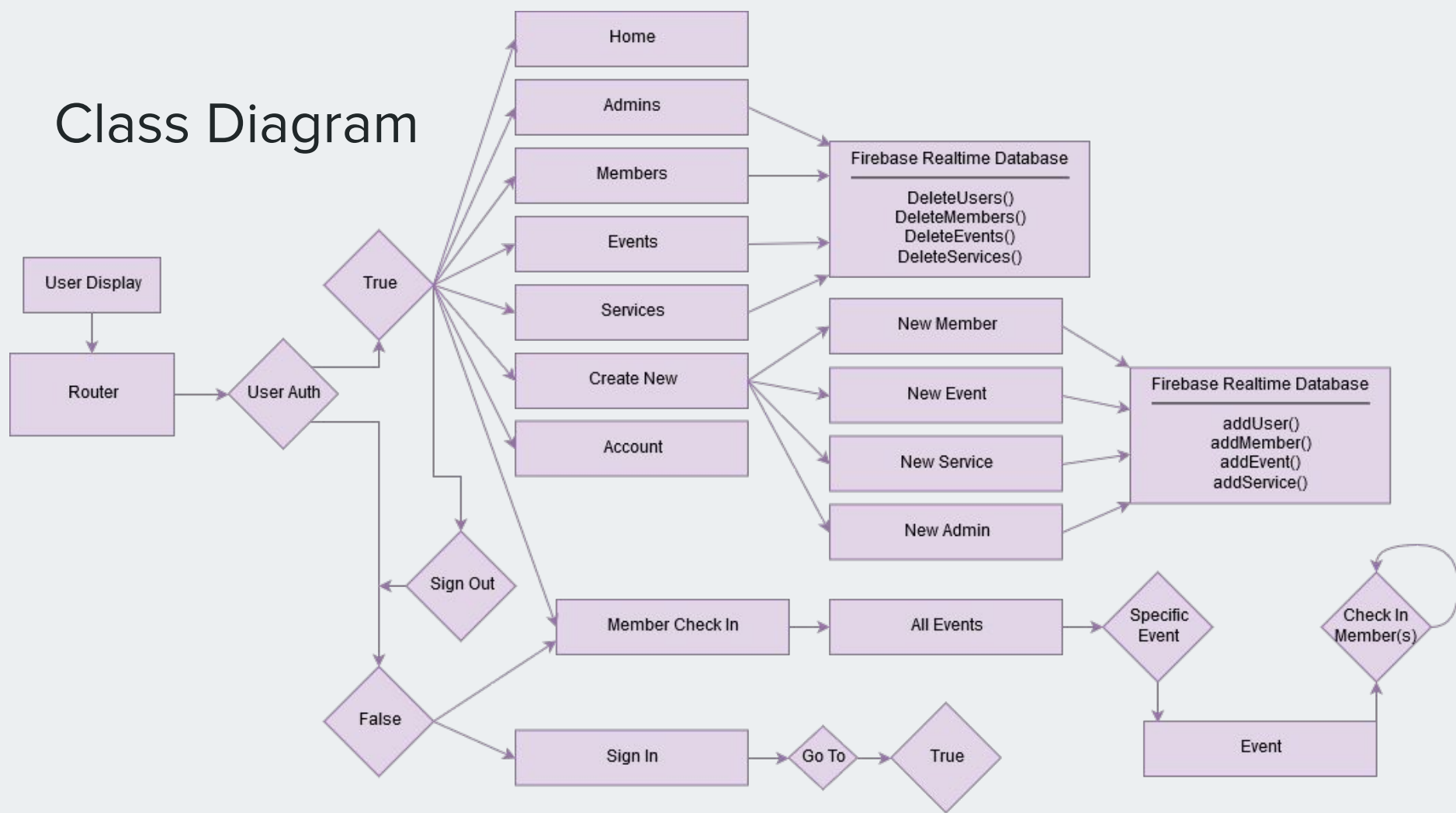
- Easily extensible
- Provides live view of data
- Simple for users to understand and navigate



Unique ID values exist, but are hidden from the users as requested by the client

Data is returned as a snapshot of any relevant database documents

# Class Diagram





# Testing

Automated Testing linked to our Github Repository:

Git commit → Travis-CI build → Coveralls report



Jest test cases (some  
using react-test-renderer)



Status reflected in  
repository badge



Coverage reflected  
in repository badge



Due to the nature of the project, selenium  
test cases must be run manually