

STEFANO BADALUCCO

# E-VOTE WEB - APP

Web application for voting

# ASSUMPTION

- A user can register and login into the app by providing username and password
- Only register users can see the list of candidates
- A user can become a candidate
- A candidate can remove himself from the candidate list
- If a candidate remove himself from the voting list he will lose all the votes collected
- A user can vote to whatever candidate expect himself
- A user is allowed to vote zero, one or two times
- A user can vote once for candidate
- A user can change his vote
- Not registered user can see only the home page and the authentication page

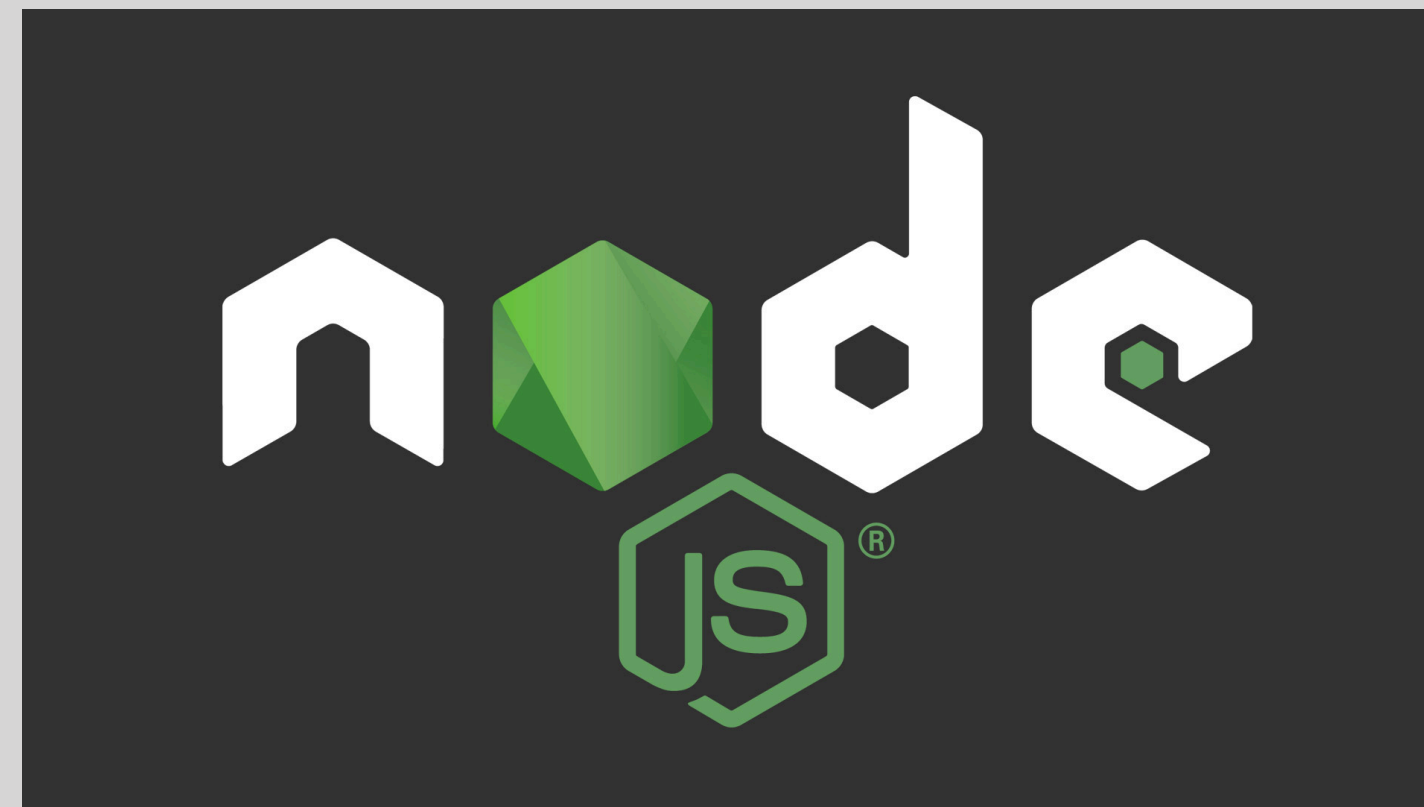
# TECHNOLOGIES USED

## FRONT END



- FAST
- SCALABILITY
- SIMPLE TO USE
- REUSABLE COMPONENT

## BACK END



- IDEAL FOR API
- SCALABILITY
- NPM
- REUSABILITY

## DATABASE



- FLEXIBILITY
- ALREADY EXPERIENCED

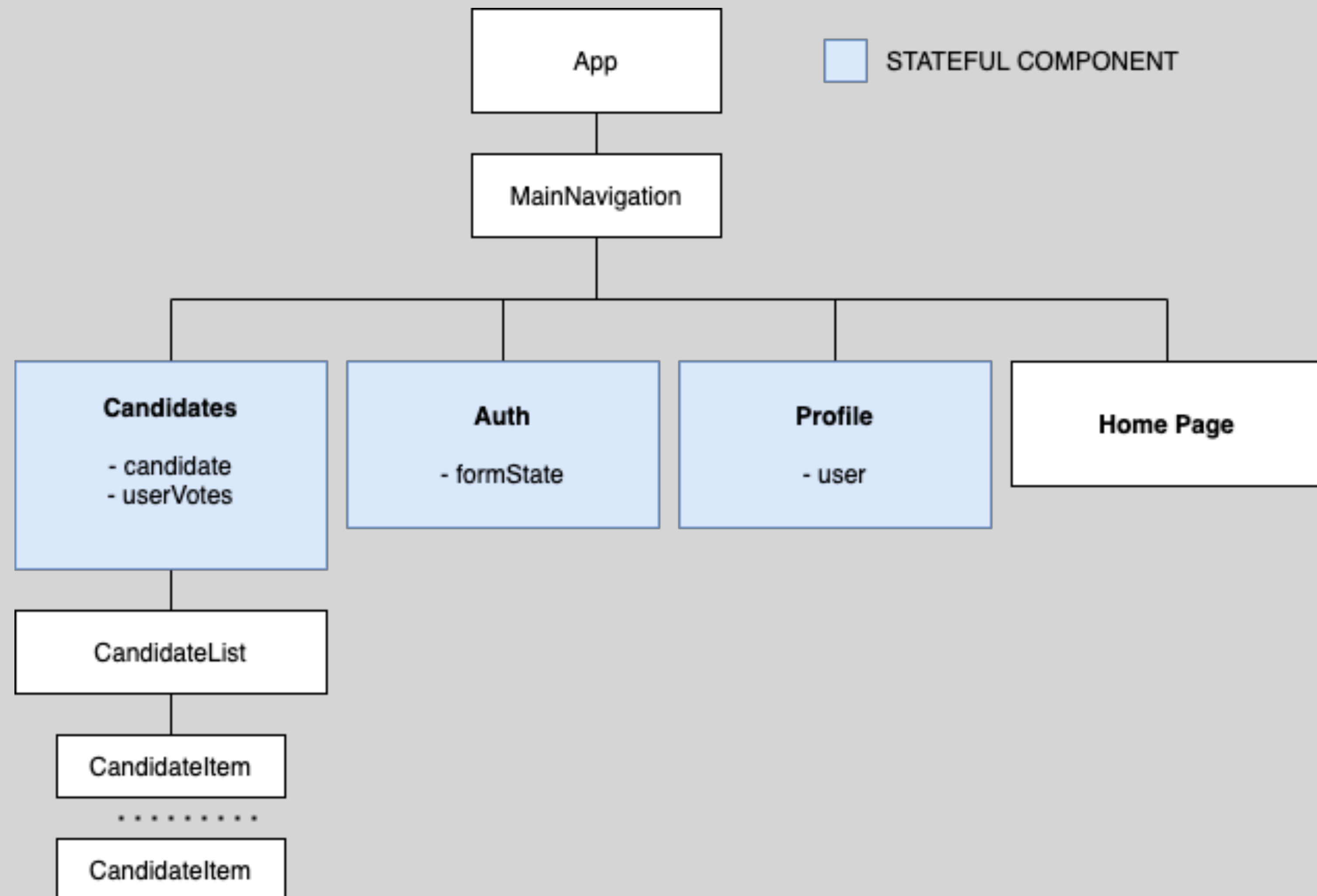
# FRONT-END

## DEPENDENCIES

- **react js:** *library for building user interfaces or UI components*
- **react-router-dom:** *handle the router components for the web app*
- **react-transition-group:** *library for animation*
- **react-flexbox-grid:** *library that help to implement the creation of flex-box grid*

# FRONT-END

## FIRST COMPONENTS DIAGRAM



# BACK - END

## DEPENDENCIES

- **axios:** *promise based HTTP client*
- **bcryptjs:** *library to hash password*
- **body-parser:** *parse incoming request bodies*
- **express:** *framework for node.js, simplify the development process*
- **jsonwebtoken:** *help to handle the web token*
- **mongoose:** *schema-based solution to model your application data*
- **uuid:** *help to generate unique identifiers*
- **multer:** *node.js middleware to handle multipart/form-data*

# DATA BASE

## MONGODB SCHEMAS

### USERS

- id
- name
- email
- password
- image

### VOTES

- id
- user
- candidate
- date

### CANDIDATES

- id
- user
- slogan

# DATA BASE

**MONGODB, IS THIS THE BEST SOLUTION ?**

## PRO

- Already experienced
- Simple to develop
- Super flexible

## CONS

- Non-relational database
- Multiple queries to retrieve some data



# LIVE DEMO