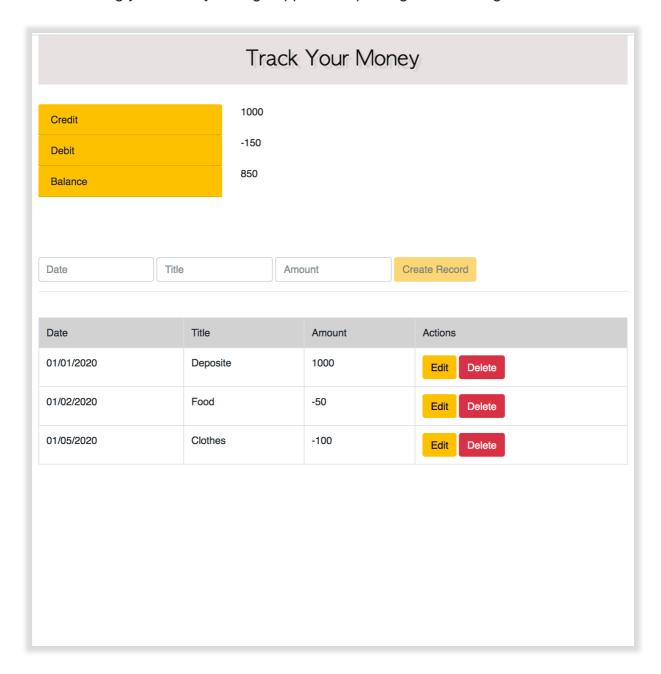
# App - Track Your Money

## **About**

• Tracking your money through application proving CRUD using React.



#### **Structure**

## 1. Components Structure

```
App

|____ Summary

|____ Form _ _ _ _ _ RecordsAPI

|_____ Table

|_____ TableRow

|_____ TableDisplay

|_____ TableEdit
```

- App Component: is the data hub
  - o state: records for entries in Table component
  - o state: isLoaded show loading info, before showing Table
  - o state: error
  - method: componentDidMount() get data from database
  - method: addRecord() passed to Form
  - method: deleteRecord() passed to Table and TableRow
  - method: updateRecord() passed to Table and TableRow
  - o method: credits() passed to Summary
  - o method: debits() passed to Summary
  - method: balance() passed to Summary
- Summary Component: displays negative/ positive summation for the records
- Form Component: add record into records, updating Table
- Table Component: just pass records to TableRow
- TableRow Component: display each record in records
- RecordsAPI: utility providing interface to make RESTful API call

#### 2. File Structure

### 1. Component data flow: Model-> View

- Parent component M-> Child component V
  - o Between parent component prop and child component prop
- Child component M-> Parent component V
  - Callback function + The parent component passes the callback function to the child component + In JS, function is a first-class citizen, so the value passed in will be saved as its own field; different from C / Java.
- sibling pass value between components M-> V
  - Must rely on the common parent component of the two to pass
  - But when the relationship between components becomes more and more complicated, this way of relying on the parent component as a middleman to pass values should be a mess!
  - Redux comes into picture

## 2. Two-way binding: Model <-> View

- By binding <input>the onChange()Monitor View transformation
- Update the value of the component in onChange Handler to complete the data flow of View => Model.

#### 3. React life cycle

- Mount
  - constructor()
  - componentWillMount()
  - render()
  - componentDidMount()

## Update

- componentWillReceiveProps (): will receive new props
- shouldComponentUpdate (): Should it be updated?
- o componentWillUpdate (): The component will be updated soon
- render (): the component is rendered
- o componentDidUpdate (): component completes update

#### Unmount

 componentWillUnmount (): Do some data removal before the component is unmounted