



## Fullstack (React Web + NodeJS) - Practical Test

Duration - 4 Hours

- You need to develop a wallet application to track expenses using
  - ReactJs
  - NodeJs
- You can refer to wireframes but feel free to add extra features and modifications.
- In the home page, the user should see a list of expenses initially.
- The user should be able to create expense records with the following user inputs. (it can be a modal or new page)
  - Title
  - Description (Optional)
  - Date
  - Category
  - Amount
- Each expense populated should be editable and deletable.
  - While deleting an expense, a confirmation popup should be shown to the user
  - All the fields should be *editable* in the edit mode
- In the home page, the user should be able to filter out expenses using categories. (*Single Select*)
  - Categories list
    - Food
    - Household
    - Social Life
    - Transportation
    - Health
    - Miscellaneous
- No need to implement or consider following features (**Out of scope**)
  - Manage authentication (Login/Signup)
  - Manage authorization

### Additional Features (*mandatory for SE's and above*)

- The user should be able to view a summary of expenses in a dashboard page with a bar chart.
  - The Bar chart should summarize data based on categories **for the current month**.
  - Bar Chart ( x-axis -> Category, y-axis -> the total amount spent on each category)
- Filtering and dashboard data calculation should be done through the **back-end**.

## React Scope

- Use state management mechanism - Redux, Saga, Thunk or Context API
- You can use any library - Material, Styled, AntD, lodash, moment, React Router
- (Preferred) - Use react hooks
- (Preferred) - Use TypeScript
- Create a README.md file and explain "How to run in development"

## NodeJs Scope

- Use proper server-side validations
- Use best practices
- Use any database like mongodb, mysql, file or in memory db. (Preferred in-memory database like - LokiJS, sqlite)
- (Preferred) - Use TypeScript
- Create a README.md file and explain "How to run in development"

## Wireframes

The wireframe shows a web browser window with the URL <http://moqups.com>. The page layout includes a header with a "Select a Category" dropdown and a "Create Expense" button. Below the header, there are three identical expense cards. Each card displays the following information: "Spent at keels" followed by the date "20/10/2022", a "Test description.....", the category "HOUSEHOLD", and the amount "1000 LKR". At the bottom right of each card, there are two icons: a pencil for editing and a trash can for deleting.

Mozilla

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http://moqups.com

Select a Category

Create Expense

Spent

Test d

HOUS

1000

Create Expense

Title

Select a category

Description

08/03/2022

Amount spent

Cancel

Submit

2022

