

# GreedyGame Frontend Assessment

One of the basic components to consume large amounts of information is a table. This helps users to get an idea of different metrics for their perspective. Your goal for this assessment is to create a customisable table with a set of functionalities. The table that you will create will feature an analytics page that will call a REST API to fetch the data. That data needs to be represented on your Table component and enable the user to perform some operations that will alter the view for the end user

## App Features

### Analytics Page [/analytics]

- You need to give an option for the user to input the dates as a Date Picker to call the API end point to fetch data. Please note that the data would be available for a sample range only (Try 1-Jun-2021 to 31-Jun-2021)
  - Reusable Analytics Table Component
    - Allow the user to enable/disable a particular column from view The columns for the table need to have a representation separately as well. This will allow the user to select/deselect a particular column from view
    - Reorderable table columns (from settings tab [refer mock]).
    - Data formatting (each cell).
    - Sortings & filters.
    - Responsive Table.- Extra
  - [OPTIONAL] **Reusable** data cache layer. (Don't call http call again if the data has been queried *recently*.)
  - Shareable table link (If you share the link to anyone, table's all filters & columns should be populated)
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## Expectation

- **Do not use any 3rd party library for table**
  - React + Redux usages
  - Table should work as per features set
  - Use best practices - your code quality matters.
  - Minimal library dependency for other components
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## Table Columns

- Tables columns can be
  - Date
  - App Name
  - AD Request
  - AD Response
  - Impression
  - Clicks
  - Revenue
  - Fill Rate ( = Ad Request / AD Response \* 100%)

- CTR ( = Clicks / Impression \* 100%)

(Note: Data & App Name columns will be always there in the table. But user can add/remove other table columns)

Mocks: [Link](#)

Add/Remove Cols: [Video Link 1](#)

Drag & Drop columns: [Video Link 2](#)

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## API

To Get All report by date

- Request

```
/GET http://go-dev.greedygame.com/v3/dummy/report?startDate=YYYY-MM-DD&endDate=YYYY-MM-DD
```

e.g: <http://go-dev.greedygame.com/v3/dummy/report?startDate=2021-05-01&endDate=2021-05-03>

- Response

```
{
  cache_time: 20, //in second
  data: [
    {
      date: "2021-07-07T00:00:00Z"
      app_id: 212211,
      requests: 36249787, // ad request
      responses: 36329805 // ad response
      impression: 35318801
      clicks: 328202,
      revenue: 5742.423646628184
    },
    //...
  ]
}
```

To Get All apps

- Request

```
/GET http://go-dev.greedygame.com/v3/dummy/apps
```

- Response

```
{
  cache_time: 200, //in second
  data: [
    {
      app_id: 212211,
      app_name: "Candy Crush"
    },
    {
      app_id: 5612223,
      app_name: "Call Of Duty"
    },
    //...
  ]
}
```

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If you have any doubt regarding questions, feel free to reach out [frontend@greedygame.com](mailto:frontend@greedygame.com)