

# Assignment

The assignment is to show various category objects ( provided in json format ) in the application. The categories will be provided as an unsorted list of json objects. Some of these categories are children of other parent categories.

The task is to show the parent categories on the main screen ( Screen A ). When the user clicks on one of the categories the application will check if the selected category has children categories associated with it or not. If yes, the application will navigate to the second screen ( Screen B ) to display those child categories. If there are more child categories for the category selected on the Screen B then navigate again to the Screen B with its child categories. Finally when the last category is selected and there are no more child categories for it then navigate to the last screen ( Screen C ).

The categories will be related to each other based on their **ID** parameter in the json object. The children categories' json object will have a **parent** parameter as the **ID** of the parent category.

For example:

```
{
  "id": 1,
  "name": "Clothes",
  "slug": "clothes",
  "parent": 0
},
{
  "id": 2,
  "name": "Jeans",
  "slug": "jeans",
  "parent": 1
},
{
  "id": 3,
  "name": "Shirts",
  "slug": "jeans",
  "parent": 1
},
{
  "id": 4,
  "name": "Formal",
  "slug": "formal",
  "parent": 2
},
{
  "id": 5,
  "name": "Denim",
```

```
"slug": "denim",  
"parent": 2  
},  
{  
  "id": 6,  
  "name": "Accessories",  
  "slug": "accessories",  
  "parent": 0  
}
```

Use the data in the adjoining **data.json** file to create the application. Copy and paste the data from the file into your dart file.

## Requirements

- Flutter Version 3.3.x

## Parameters for qualification

- Code quality
- Flutter best practices for optimization and performance
- State management between screens

## Submission

Publish the flutter code for the application on a github / gitlab public repository and share the link for it to the following email:  
aniketmalikwork@gmail.com