



ICT Department

របៀបបង្កើត object class សំរាប់ទាញយកទិន្នន័យ ជាទម្រង់ JSON

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របៀបបង្កើត object class សំរាប់ទាញយកទិន្នន័យ ជាទំរង់ JSON

យើងដឹងហើយថា ដើម្បីទាញទិន្នន័យពី JSON មកផ្ទុកក្នុង App គឺយើងត្រូវមាន class

- យើងសង្កេតមើល JSON នេះថាតើវា វាចាប់ផ្តើមចេញ [] ឬចេញពី { }

[] មានន័យថា List

{ } មានន័យថា Map

```
{  
  "userId": 5,  
  "id": 41,  
  "title": "non est facere",  
  "body": "molestias id nostrum\nexcepturi repellendus..."  
}
```

នៅ slide បន្ទាប់ យើងឃើញទំរង់ស្មុគស្មាញរបស់ JSON!

```
{
  "results": [
    {
      "gender": "male",
      "name": {"title": "mr", "first": "brad", "last":
" gibson"},
      "location": {
        "street": "9278 new road", "city":
"kilcoole", "state": "waterford",
        "postcode": "93027",
        "coordinates": {
          "latitude": "20.9267",
          "longitude": "-7.9310"
        },
        "timezone": {
          "offset": "-3:30",
          "description": "Newfoundland"
        }
      },
      "email": "brad.gibson@example.com",
    }
  ]
}
```

```
{  
  "id": "487349",  
  "name": "Pooja Bhaumik",  
  "score": 1000  
}
```

```
class User {  
  String id;  
  String name;  
  int score;  
  
  User({this.id, this.name, this.score});  
  
  factory User.fromMap(Map<String, dynamic> json) => User(  
    id: json["id"],  
    name: json["name"],  
    score: json["score"],  
  );  
  
  Map<String, dynamic> toMap() => {  
    "id": id,  
    "name": name,  
    "score": score,  
  };  
}
```

```
{  
  "city": "Mumbai",  
  "streets": [  
    "address1",  
    "address2"  
  ]  
}
```

```
class Address {  
  String city;  
  List<String> streets;  
  
  Address({this.city, this.streets,});  
  
  factory Address.fromMap(Map<String, dynamic> json) => Address(  
    city: json["city"],  
    streets: List<String>.from(json["streets"].map((x) => x)),  
  );  
  
  Map<String, dynamic> toMap() => {  
    "city": city,  
    "streets": List<dynamic>.from(streets.map((x) => x)),  
  };  
}
```

ទំព័រទី៣: Map នៅក្នុង Map

```
class Shape {
  String shapeName;
  Property property;

  Shape({this.shapeName, this.property,});
```

```
factory Shape.fromMap(Map<String, dynamic> json) => Shape(
  shapeName: json["shape_name"],
  property: Property.fromMap(json["property"]),
);
```

```
Map<String, dynamic> toMap() => {
  "shape_name": shapeName,
  "property": property.toMap(),
};
```

```
{
  "shape_name": "rectangle",
  "property": {
    "width": 5.0,
    "breadth": 10.0
  }
}
```

```
class Property {
  int width, breadth;

  Property({this.width, this.breadth,});

  factory Property.fromMap(Map<String, dynamic> json) => Property(
    width: json["width"],
    breadth: json["breadth"],
  );

  Map<String, dynamic> toMap() => {
    "width": width,
    "breadth": breadth,
  };
}
```

ទំព័រទី៤: List នៃ Map នៅក្នុង Map ធំ

```
class Product {
    int id;
    String name;
    List<Image> images;

    Product({this.id, this.name, this.images,});

    factory Product.fromMap(Map<String, dynamic> json) => Product(
        id: json["id"],
        name: json["name"],
        images: List<Image>.from(json["images"].map((x) => Image.fromMap(x))),
    );
}
```

```
{
  "id":1,
  "name":"ProductName",
  "images":[
    {"id":11, "imageName":"xCh-rhy"},
    {"id":31,"imageName":"fjs-eun"}
  ]
}
```

```
class Image {
    int id;
    String imageName;

    Image({this.id, this.imageName,});

    factory Image.fromMap(Map<String, dynamic> json) => Image(
        id: json["id"],
        imageName: json["imageName"],
    );
}
```

```
[  
  {  
    "albumId": 1,"id": 1,  
    "title": "accusamus beatae ad facilis cum similique qui sunt",  
    "url": "http://placeholder.it/600/92c952"  
  }  
]
```

```
class Photo {  
  int albumId;  
  int id;  
  String title;  
  String url;  
  
  Photo({this.albumId, this.id, this.title, this.url});  
  
  factory Photo.fromMap(Map<String, dynamic> json) => Photo(  
    albumId: json["albumId"],  
    id: json["id"],  
    title: json["title"],  
    url: json["url"],  
  );  
}
```

```
List<Photo> photoFromJson(String str) {  
  return List<Photo>.from(json.decode(str).map((x) => Photo.fromMap(x)));  
}
```


ការបំប្លែងពី JSON ទៅ Dart Class ដោយស្វ័យប្រវត្តិ

ខាងក្រោមនេះគឺជា website ដែលជួយបំប្លែងពី JSON អោយទៅជា Dart class ដោយស្វ័យប្រវត្តិ៖

- Quicktype:

<https://app.quicktype.io/>

- Javier Lecuona:

https://javiercbk.github.io/json_to_dart/