**Day 5 Lab Assignments**

**Complete on the previous lab, and do the following assignments:**

1. Use Json server package (<https://github.com/typicode/json-server> ) to create fake JSON API.
   1. Create new folder (In any path) and open a new visual studio code window in this path.
   2. Install JSON Server: npm install -g json-server
   3. Create a db.json file (In your project folder) with the given data format in the lab files.
   4. Start JSON Server: json-server --watch db.json
   5. You can access your fake json server from this URL: <http://localhost:3000>

(**Note:** You can use the following fake API link instead of JSON server: <https://reqres.in/api/product> )

1. In environment.development.ts, add the API base URL: <http://localhost:3000> in a variable.
2. Create Category Service that contains:
   1. getAllCateogories() that returns all categories (use GET API: <http://localhost:3000/categories>).
   2. Create any required Models.
3. Create new Product Service that contains the following methods:
   1. getAllProducts() that returns array of all products (Use GET API: <http://localhost:3000/products> ).
   2. getProductsByCategoryID(catID) that returns array of products of the given category (Use API: <http://localhost:3000/products?CategoryID=cid>)
   3. getProductByID(pID) that returns product with the given prdID (Use GET API: <http://localhost:3000/products/pid> ).
   4. Create any required Models.
   5. You’ll need to import HttpClientModule in app.module, and use HttpClient service in your service.
4. Change the following components in your project to use the new service with real data from the fake JSON server:
   1. In order component, fill the categories from the new service (Use getAllCateogories())
   2. In Order details component, fill the products of selected category from the new service (Use getProductsByCategoryID(catID))
   3. In product details component, display the product details from the new service (getProductByID(pID)).
5. In each component (or try it on one component at least), Unscbscrribe from all observables you subscribed to them (in ngOnDestroy).
   1. What are observables? And how do they differ than promises?
   2. What’s RxJS? And What are Observable operators make simple demo to test observables and operators?