

# Assignment I

Design and develop a **scalable** server application using **NodeJS(express)** or **Go(gin)** with the following REST apis:

1. A user signup api **/user/signup** accepting **name**, **password** and **email** as input and return **auth token** as response.
2. A user signing api **/user/signin** accepting **email** and **password** as input and return **auth token** as response.
3. A user profile api **/user/profile** returning user detail as response.
4. A user profile update api **/user/profile/update** accepting name and password as params.

**Any SQL database can be use for data persistence.**

## **Note :**

1. Use best practice in designing and development.
2. Feel free to use third party libraries.
3. Keep mobile client in mind while designing apis.

# Assignment II

## Database Design

Design a SQL database for the following problem :

1. Every user have a **Shopping list** (each item in shopping list have attributes like name, quantity, note, category) where he/she can add, remove or update items.
2. A user can invite other user to join his **family group**, other user can accept or decline the request. when user join family of other user their shopping list should be merge.
3. Once two users are in a family group they share the same shopping list means change in shopping list by one user should be reflect to other.
4. Should have tracking by whom and when shopping list is updated.

**Write a query for fetching shopping list for a user when he/she is in group.**