1. **Database design:**
2. **User db – Sql**
   1. user id(primary key)
   2. Username - string
   3. Password- string
   4. Firstname –string
   5. Lastname –string
   6. Email – string
   7. Loginlasttime- datetime
   8. Created account –datetime
3. **Address Db- Sql**
4. Address Db- Sql
5. AddressId- primary Key
6. User ID –Foreign Key
7. Effective date: Date
8. Address: String
9. Address line1 : String
10. Address line2: String
11. City : String
12. Country: String
13. Zip: Alphanumeric

**C. Product table**

* If we use sql database for product information, we will be wasting lot of space, so we will be using nosql.(Document Db- Dynamic Db or Mongo Db)

{

“Id”:”124568”,

“Category”:”Cloth”,

“item”:”Tshirt”,

“Gender”:”Female”,

“Size”:”S”

}

**D. Review DataBase:**

{

“Key”: “23444322134”,

“Rating”:4,

“Description”:”Product review”,

“Images”:[{

“AttachedId”:”73994”

},{

“AttachedId”:”73239”}]

}

**E. OrderDB(NoSql)**

{

“ordered”:”75545”,

“userid”:”4343267”,

“addressid”:”54324”,

“items”:[{

“itemid”:”439087”,

“quantity”:2,

“price”:60,

“currency”:usd},

{

“itemid”:”439327”,

“quantity”:1,

“price”:100,

“currency”:usd}],

“Totalamount”:220,

“taxes”:10,

“totalamt”:230}

**}**

**API’S:**

1. Get Recommendation(UserId):-

Will return a list of products recommendations.

1. Search(Search string, userId)

Returns a list of products.

1. Addto cart(UserID, Product Id,amount,quanty)

Return a Boolean (true/false)

1. Place order(UserID, OrderID, AddressId,payment Status)

Returns Boolean

1. CheckorderStatus(orderId)- returns status.