1st Iteration

1. Strong Entities
   1. USER(id, email, country, phone)
   2. PRODUCT(p\_id, name, has\_TR\_certf)
   3. LOGISTICS(log\_id, name, type, premium)
2. Weak Entities
   1. None
3. 1:1 Relations
   1. None
4. 1:N Relations
   1. None
5. M:N Relations
   1. RELATED\_TO(PRODUCT.id, RELATEDPRODUCT.id)
6. Multivalued Attribute
   1. USER\_ADRESS(USER.id, adress)
   2. PRODUCT\_CATEGORY(PRODUCT.id, category)
7. N-ary Relations
   1. None
8. Specializations – Generalizations Options
   1. (Option 8-a)
      1. CUSTOMER(id, email, country, phone, fname, minit, lname, points)
      2. SHOP(id, email, country, phone, name, score, is\_w\_entrepreneur)
9. Unions
   1. None

2nd Iteration

1. Strong Entities
   1. None
2. Weak Entities
   1. SHOP\_PRODUCT(SHOP.id, PRODUCT.id, amount, currency, discount, stock)
   2. PAYMENT(CUSTOMER.id, payment\_id)
3. 1:1 Relations
   1. None
4. 1:N Relations
   1. None
5. M:N Relations
   1. LISTS(CUSTOMER.id, SHOP.id, PRODUCT.id, list\_id, name)
   2. S&A(CUSTOMER.id, SHOP.id, PRODUCT.id, date)
   3. PRODUCT\_REVIEW(CUSTOMER.id, SHOP.id, PRODUCT.id, review\_test, score)
   4. SHOP\_REVIEW(CUSTOMER.id, SHOP.id, review\_test, score)
6. Multivalued
   1. None
7. N-ary Relations
   1. None
8. Specializations – Generalizations Options
   1. AFFILIATE(CUSTOMER.id, code)
   2. PREMIUM(CUSTOMER.id, s\_date, e\_date)
   3. (Option 8-a)
      1. CCARD(CUSTOMER.id,payment\_id, card\_number, ccv, exp\_date, name)
      2. WALLET(CUSTOMER.id, payment\_id, amount, currency)
9. Unions
   1. None

3rd Iteration

1. Strong Entities
   1. None
2. Weak Entities
   1. ORDER(CUSTOMER.id, LOGISTICS.id, SHOP\_PRODUCT.shop\_id, order\_id, SHOP\_PRODUCT.product\_id, USER\_ADRESS.address, date, coupon, status)
3. 1:1 Relations
   1. None
4. 1:N Relations
   1. ORDER(CUSTOMER.id, LOGISTICS.id, , SHOP\_PRODUCT.shop\_id, SHOP\_PRODUCT.product\_id, order\_id, USER\_ADRESS.address, PAYMENT.CUSTOMER.id, PAYMENT.id, amount, date, coupon, , status) (pays for)
   2. ORDER( CUSTOMER.id, LOGISTICS.id, SHOP\_PRODUCT.shop\_id, SHOP\_PRODUCT.product\_id, order\_id, USER\_ADRESS.address, PAYMENT.CUSTOMER.id, PAYMENT.id, AFFILIATE.id, amount, date, coupon, , status) (refer)
   3. TRANSACTIONS(CCARD.CUSTOMER.id, CCARD.id, WALLET.id, amount, date)
5. M:N Relations
   1. COLLECTIONS(SHOP.id, PRODUCT.id, AFFILIATE.id, collection\_id)
6. Multivalued Attributes
   1. None
7. N-ary Relations
   1. None
8. Specializations – Generalization Options
   1. None
9. Unions
   1. None