**Actions a person with an account can perform:**

1. Top-up account (complex –requires more time, thus ignore now)
2. Purchase bundle
3. Share their bundle
4. View detailed balances
5. Request bundles

**Information I want my system to keep track of:**

1. info about customer(subscriber):

* name: mpho Mahlangu
* date-of-birth: 25/11/1997
* gender: male
  1. why the system needs this info:
* to verify if user qualifies to open an account – i.e. only users 16+ years old can open account
* to tailor bundle offers according to gender/age
  1. what operations can a user perform with this info:
* update their name – in case they get married/change surnames

**databases the system must have:**

1. active users details
2. user login details
3. deactivated users
4. account transactions:

* account top-up
* data bundle purchases
* SMS bundle purchases
* Bundle sharing

1. Bundles:

* Price
* Duration
* Type

**Some algorithms to note:**

1. Purchase bundle algorithm:

**BEGIN:**

Check current balance

**if** balance == enough:

Get phone# to purchase for(self or other phone#)

Choose bundle type

Confirm purchase

Log purchase into database

Load bundle into account

**Else**

Decline request (purchase) – insufficient balance(request credit if qualify or top-up account)

**Endif**

**END**

1. Share bundle and/transfer airtime:

**BEGIN:**

Get amount/size user wants to share

Check current balance

**if** balance >= requested Amount:

Get phone# to share bundle/airtime with

Confirm transfer

Log transaction into database

Send airtime/bundle to user

**Else**

Decline request(transfer) – insufficient balance(request credit if qualify or top-up account)

**Endif**

**END**

**some business rules to follow:**

1. in order for a person to perform transactions they must first **create an account** – where they are assigned a unique identifier(phone number), which tracks them across the system
2. a new user gets R100 airtime, 1GB data, and 30 SMS’s
3. in order to qualify for credit user must make at least three purchases worth of R30