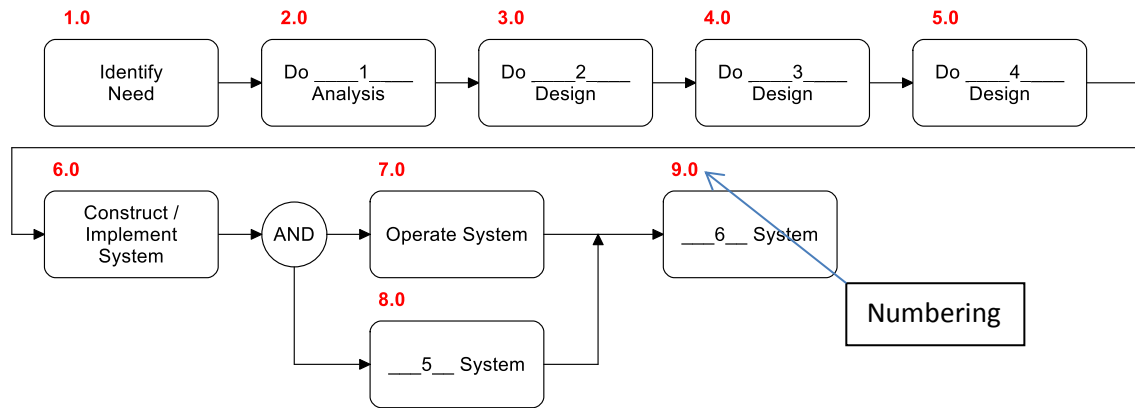


Ontwerp 2017 / Design 2017

Voorletters en van / Initials and surname: **Memorandum 2017**

Vraag 1 / Question 1 – Lewensiklus / Life cycle



Voeg die uitstaande details in vir die lewensiklusvloei hierbo / *Add the missing details in the life cycle flow above:*

- 1: Requirements Analysis
- 2: Conceptual Design
- 3: Preliminary Design
- 4: Detail Design
- 5: Maintain System
- 6: Retire / Upgrade System

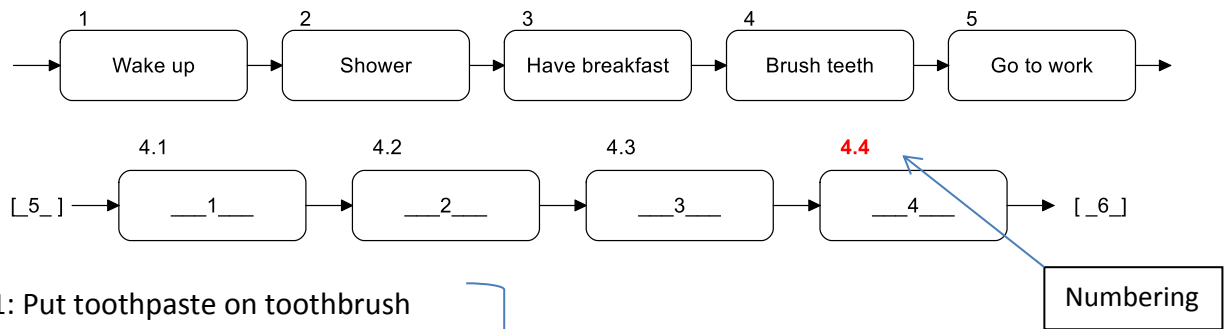
Vraag 2 / Question 2 – Vereistes / Requirements

Noem 5 belangrikste vereistes van 'n stelsel soos bespreek in die klas, en soos van toepassing op die produkte wat in 2017 ontwerp word. / Name the 5 most important requirements of a system as discussed in class, applicable to the products that will be designed in 2017:

- 1: Functional requirements (what?) - as part of form/fit/function
- 2: Performance (how well?)
- 3: Environmental (where / under which conditions?)
- 4: Physical (form)
- 5: Interface (fit)

Vraag 3 / Question 3 – Funksionele vloeï / Functional flow

Tooth brushing...



1: Put toothpaste on toothbrush

2: Wet toothbrush with water

3: Brush teeth

4: Clean toothbrush

5: REF 4.0: Brush teeth

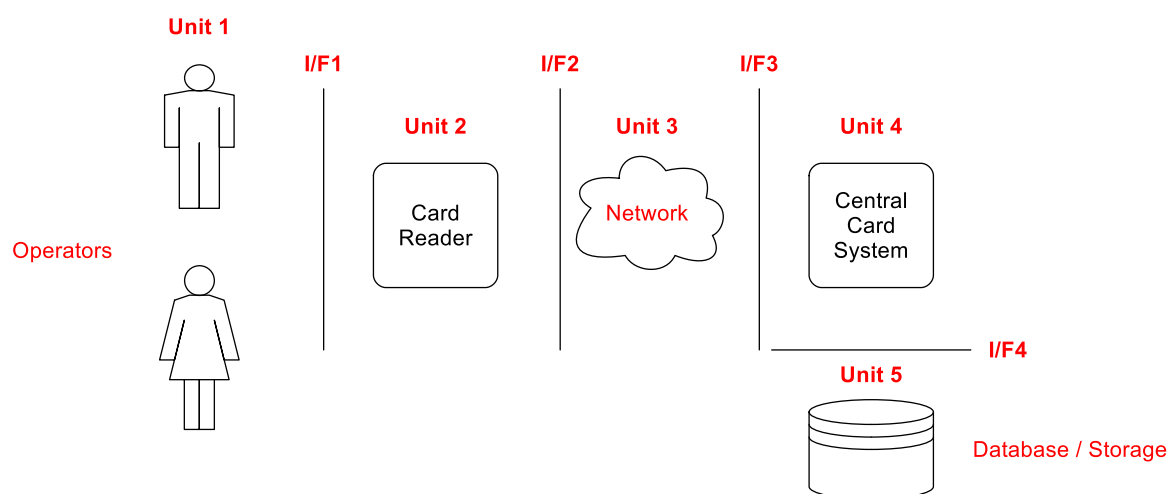
6: REF 5.0: Go to work

Any 4 sensible instructions with VERBS

Vraag 4 / Question 4 – Argitektuur / Architecture

Voltooi die volgende diagram na die beste van jou vermoë / Complete the following diagram to the best of your ability:

Access control system - Card readers



Bonusvraag / Bonus question: Hoe lank is 'n stuk tou? / How long is a piece of string?

What will it be used for (function), where will it be used (fit), and what must it be made of (form)?

Any form/fit/function question is the answer...