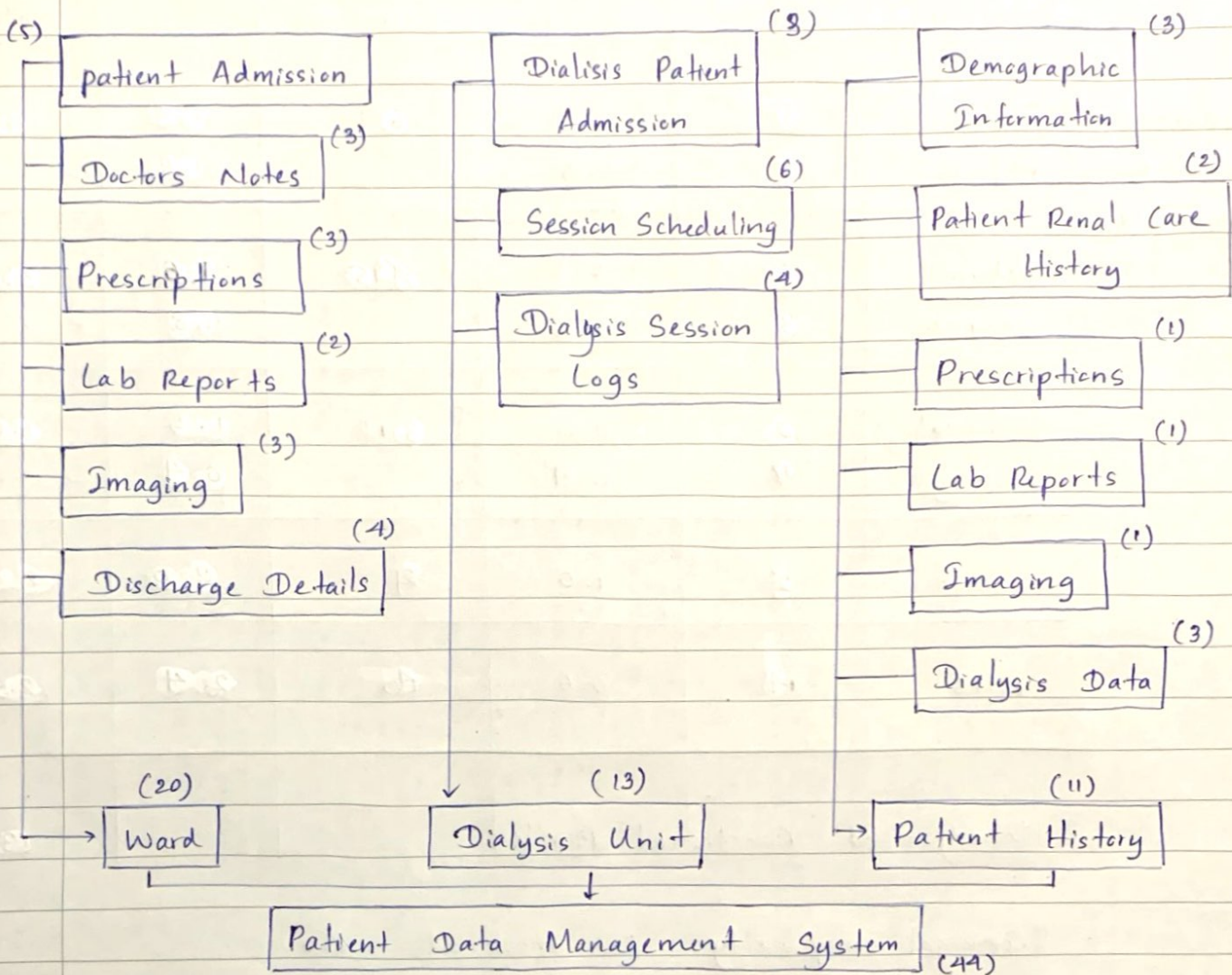


CSC - 4142 - Assignment - 04 - S19355

1. Bottom-up Effort Estimation : Data management System



- Estimated total efforts = $20 + 13 + 11 = 44$ working days
 $= 44 \times 24$
 $= 1056$ working hours

Approximate total = 1056 man hours //
 effort
 for a single developer

Prince

2. FP Mark II Effort Estimation

	Functional point type	#elements	complexity	total #elements	Value	total value
complex - 0.8	External	5	0.8	} 9	4.0	} 6.4
Medium - 0.6	Inputs	4	0.6		2.4	
Simple - 0.4	External	4	0.8	} 10	3.2	} 6.8
	outputs	6	0.6		3.6	
	External	5	0.6	} 12	3.0	} 5.8
	Inquiry	7	0.4		2.8	
	Interfaces	4	1.0	4	4.0	4.0
	Files	10	0.6	10	6.0	6.0
Unadjusted Functional Points						29.0

- Technical complexity \Rightarrow moderate = 40

$$\begin{aligned}
 \text{VAFc} &= \text{UFP} \times (0.65 + 0.01 \times \text{Technical complexity}) \\
 &= 29.0 \times (0.65 + 0.01 \times 40) \\
 &= 30.45
 \end{aligned}$$

$$\begin{aligned}
 \text{Approximate effort} &= \text{VAFc} \times \text{Productivity rate (30-40 h/FP)} \\
 &= 30.45 \times 35 \\
 &= 1065.75 \\
 &\approx 1066 \text{ man hours} //
 \end{aligned}$$

Prince