Simple Use Cases: 1,2

Average Use Cases: 3,4,5,6,7

Complex Use Cases: 8,9,10

Simple Actors: B, F, K

Average Actors: D, J

Complex Actors: A, M, C, L ,E ,N ,O, G, H, I

UUCW = (Total No. of Simple Use Cases x 5) + (Total No. Average Use Cases x 10) + (Total No. Complex Use Cases x 15)

UUCW = (2 x 5) + (5 x 10) + (3 x 15) = 105

UAW = (Total No. of Simple Actors x 1) + (Total No. Average Actors x 2) + (Total No. Complex Actors x 3)

UAW = (3 x 1) + (2 x 2) + (10 x 3) = 37

ECF = 1.4 + (-0.03 x EF) = 0.965

TCF = 0.6 + (TF/100) = 1.2

UCP = UUCP × TCF × EF= (105+37) \*1.2\* 0.965 =164.436

Taking Productivity Factor for the organization as 25 hours. Since the organization’s focus has always been on hardware in the past.

Total Estimate of STAFF HOURS = UUCP x TCF x ECF x PF

**Effort estimate=** 4111 hours= 112 weeks =27 staff months