



**Computer Science Department**

**Second Semester 2017/2018**

**Instructor: Adel Taweel**

**Comp433 – Software Engineering**

**Project-Phase Two – Task 2.4**

**G1 - Developer Group – Effort Estimations**

**Students:**

**Maryam Shaheen #1140427: Manager**

**Nourhan Abu Sharbak #1150640: Secretary**

**Eman Ghazawneh #1152278: Technical architect**

**Ahmad Thabet #1150312: Programmer**

**Sanaa Bader #1151763: Tester**

***Effort Estimations***

***pw****= person week;* ***pm****= person month;* ***w****= week;* ***m****= month*

***effort****= the effort required for a person employed all month/week long*

***Schedule time*** *= time needed to complete including based on working days only (including holidays etc.)*

|  |  |  |  |
| --- | --- | --- | --- |
| *UR* | *Estimated Effort* | *Estimated No. of Developers* | *Total Effort* |
| *UR1- Database security* | *2 pw* | *2* | *2\*2=4* |
| *UR2- Friendly system Design* | *1pw* | *2* | *1\*1=2* |
| *UR3- Services for the user* | *1 pw* | *2* | *1\*2=2* |
| *UR4- SignUp/ SignIn* | *1 pw* | *2* | *1\*2=2* |
| *UR-5 financial records for the user* | *1 pw* | *2* | *1\*2=2* |
| *UR-6 Payment methods* | *1 pw* | *1* | *1\*1=1* |
| *UR-7 Notifications/ payments deadlines/ sales/ offers* | *1 pw* | *2* | *1\*2=2* |
| *UR-8 Communicating with the company*  | *1 pw* | *2* | *1\*2=2* |
| *UR-9 Assistance/ guidance for the user* | *1 pw* | *3* | *1\*3=3* |
| *UR-10 Admin functionalities* | *2 pw* | *2* | *2\*2=4* |
| *Total effort average* | *12 pw* | *13/5 =2.6* | *25* |
| *Schedule time 30%* | *12\*1.30 =15.5 w (min time to complete)* |  | *25\* 1.3 = 32.5w (max time to complete)* |
| *Cost* |  | *AVG salary = 420$* | *420\* 32.5 w =$13,650* |
| *Profit Margin (min=10%, max=30%)* |  | *min cost →**max cost →* | *13650\*1.10 = $15,015**13650 \*1 .30 = $17,745* |

*Min → 15.5 w → $15015*

*Max → 32.5 w → $17745*

*We agreed on $15000 as an offer.*