



BIRZEIT UNIVERSITY

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	$2*2=4$
<i>Total effort average</i>	<i>12 pw</i>	<i>$13/5 = 2.6$</i>	<i>25</i>
<i>Schedule time 30%</i>	<i>$12*1.30 = 15.5 w$ (min time to complete)</i>		<i>$25* 1.3 = 32.5w$ (max time to complete)</i>
<i>Cost</i>		<i>AVG salary = 420\$</i>	<i>$420* 32.5 w = \\$13,650$</i>
<i>Profit Margin (min=10%, max=30%)</i>		<i>min cost →</i> <i>max cost →</i>	<i>$13650*1.10 = \\$15,015$</i> <i>$13650 *1 .30 = \\$17,745$</i>

Min → 15.5 w → \$15015

Max → 32.5 w → \$17745

We agreed on \$15000 as an offer.