

Faculty of Engineering and Applied Science

SOFE 3490U
Software Project Management

Lab Report #3

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Estimated Effort

A	B	C	D	E	F	G
TRANSACTION	ENTITIES	IN	OUT			
CODE	DESCRIPTION	REFERENCED	RESPONSE	DET	ENT.	DET
R01.0	Management Module					
R01.1	Add Management Member	Management	OK/Error	20	1	1
R01.2	Update Management Member	Management	OK/Error	20	1	1
R01.3	Delete Management Member	Management	OK/Error	1	1	1
R01.4	Read Management Data	Management	Details	4	2	25
R01.5	List Management Data	Management	List	1	1	19
R01.6	Add Alumni Member	Management, Alumni	OK/Error	20	2	1
R01.7	Update Alumni Member	Management, Alumni	OK/Error	20	2	1
R01.8	Delete Alumni Member	Management, Alumni	OK/Error	1	2	1
R01.9	Read Alumni Data	Management, Alumni	Details	4	3	25
R01.10	List Alumni Data	Management, Alumni	List	1	2	19
R01.11	Add Student Member	Management, Student	OK/Error	20	2	1
R01.12	Update Student Member	Management, Student	OK/Error	20	2	1
R01.13	Delete Student Member	Management, Student	OK/Error	1	2	1
R01.14	Read Student Data	Management, Student	Details	4	3	25
R01.15	List Student Data	Management, Student	List	1	2	19
R01.16	Message System	Management, Student, Alumni	Details	3	3	4
R01.17	Announcement System	Management, Student, Alumni	Details	3	3	4
R01.18	Class Management	Management, Student, Alumni	Details	3	3	4
R02.0	Alumni Module					
R02.1	Add Alumni Member	Alumni	OK/Error	20	1	1
R02.2	Update Alumni Member	Alumni	OK/Error	20	1	1
R02.3	Delete Alumni Member	Alumni	OK/Error	1	1	1
R02.4	Read Alumni Data	Alumni	Details	4	2	25
R02.5	List Alumni Data	Alumni	List	1	1	19
R02.6	Message System	Alumni	Details	3	1	4
R02.7	Announcement System	Alumni	Details	3	1	4
R02.8	Class Management	Alumni	Details	3	1	4
R03.0	Student Module					
R03.1	Add Student Member	Student	OK/Error	20	1	1
R03.2	Update Student Member	Student	OK/Error	20	1	1
R03.3	Delete Student Member	Student	OK/Error	1	1	1
R03.4	Read Student Data	Student	Details	4	2	25
R03.5	List Student	Student	List	1	1	19
R03.6	Automatic Migration	Student, Alumni	OK/Error	21	2	1
R03.7	Message System	Student	Details	3	1	4
R03.8	Announcement System	Student	Details	3	1	4
R03.9	Class Management	Student	Details	3	1	4
RFP.1	Function Points			278	57	272
RFP.2	Function Points * Factor			181.24	94.82	70.72
RFP.3	Function Points Total					326.58

Figure 1: Estimated Effort Analysis using Function Points

Activity Diagram

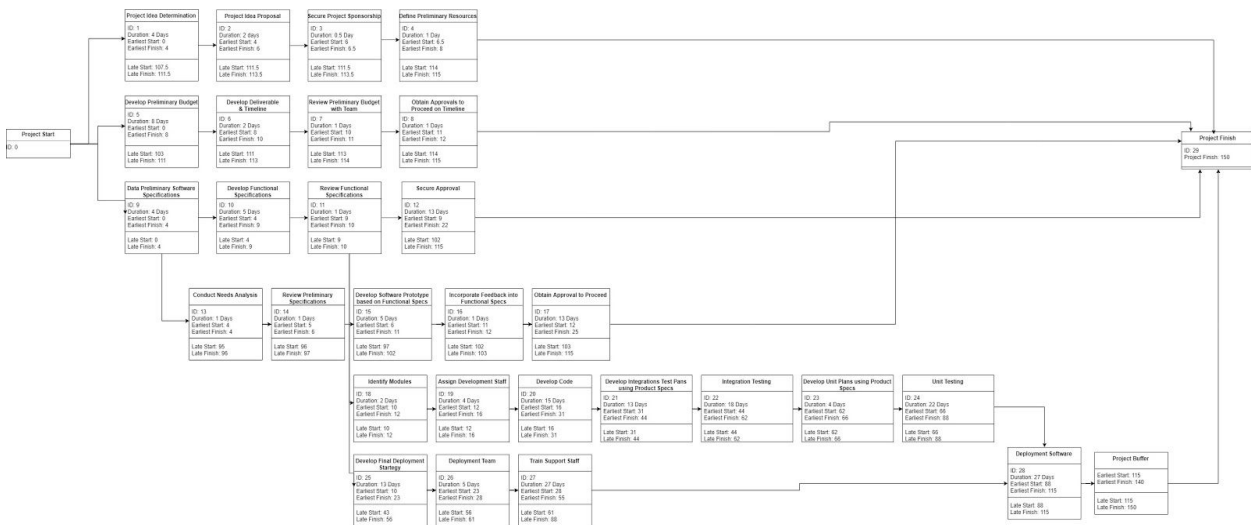


Figure 2: Activity Diagram for Overall Development

The above diagram is included in the folder to have a more detailed view by zooming in.

Risk Description

Risk Category	Risk Definition	Risk Priority	Risk ID
Actors	The specified work is not completed on time by workers	Moderate	0
Actors	Similar applications exist. Unlikely need for this to be developed if not innovated.	High	1
Technology	The mobile application might cost more than expected	Low	2
Technology	Mobile application is not up to date with latest technology	Low	3
Structure	Not enough communication between stakeholders and project managers.	Moderate	4
Tasks	The effort estimation to finish the work may be inaccurate	High	5
Tasks	The requirements may change during development process	Low	6

Figure 3: Risk Identification and Prioritization

Risk Mitigation

Risk ID	Risk Countermeasures
0	Delays in the specific tasks are not accounted for. A more detailed plan must be drafted to address any delays.
1	The university must strictly enforce the use of this platform as the main platform used by the professors.
2	Website and Mobile architecture must make use of same servers to reduce cost.
3	Specification requirements should include the usage of the latest technologies.
4	Constant communication should take place between stakeholders and project managers to discuss the details and any changes needed for the project.
5	No project history is available since the current team is working together on a project for the first time. This risk should be planned in advance.
6	An architecture should be placed in the current plan to allow modules to be modified at a minimum cost.

Figure 4: Countermeasures for the Identified Risks