ITERATION 0 . TIME AND COST ESTIMATION

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TIME ESTIMATION

We have decided to map each Functional Requirement with each Use Case, and each Use Case is mapped to an Iteration. For each Use Case we will make the following phases: Requirments, Analysis, Design, Implementation and Testing.

We have decided to have two clients (one for each type of actor) and one server, so we made estimations for each of them, and then with functional grouping, we made the time estimation table for each phase. This will help us in order to make a calendar. The estimations are made in hours.

SERVER ESTIMATION

Req#	UC	Definition	Priority	Reqs	Analysis	Design	Implementation	Testing
FR.1	UC1	Login	1	3	7	13	25	8
FR.2	UC2	Info. Dise	2	3	8	15	30	9
FR.3	UC3	Info. Campa	3	2	5	9	17	4
FR.4	UC4	Evolution	3	3	7	8	20	5
FR.5	UC5	Add contacts	4	1	6	8	13	2
FR.6	UC6	Vaccine	4	2	5	6	13	3
FR.7	UC7	Statistics	5	2	4	16	32	6

TABLA 1

MANAGER ESTIMATION (CLIENT)

Req#	UC	Definition	Priority	Reqs	Analysis	Design	Implementation	Testing
FR.1	UC1	Login	1	1	3	5	10	4
FR.2	UC7	Statistics	5	2	2	4	10	4

TABLA 2

EMPLOYEE ESTIMATION (CLIENT)

Req#	UC	Definition	Priority	Reqs	Analysis	Design	Implementation	Testing
FR.1	UC1	Login	1	1	2	3	4	2
FR.2	UC2	Info. Dise	2	2	5	6	10	4
FR.3	UC3	Info. Campa	3	1	3	5	10	2
FR.4	UC4	Evolution	3	2	4	6	12	3
FR.5	UC5	Add contacts	4	4	4	6	16	3
FR.6	UC6	Vaccine	4	2	4	5	8	2

TABLA 3

FUNCTIONAL GROUPING

For the functional grouping we have added all the times for each phase and use case. For the implementation part, we decided to use Spring, so we estimate that it will save us like a 30% of Implementation time. So in this table, it can be appreciated that the implementation takes a lot less time.

Req#	UC	Definition	Priority	Reqs	Analysis	Design	Implementation	Testing
FR.1	UC1	Login	1	5	12	21	27	14
FR.2	UC2	Info. Dise	2	5	13	21	28	13
FR.3	UC3	Info. Campa	3	3	8	14	19	6
FR.4	UC4	Evolution	3	5	11	14	22	8
FR.5	UC5	Add contacts	4	5	10	14	20	5
FR.6	UC6	Vaccine	4	4	9	11	15	5
FR.7	UC7	Statistics	5	4	6	20	29	10

TABLA 4

The total effort in hours needed is 437 hours. We will make some parallelizations (we have three subteams in hour team in charge of this project) in order to end these iterations the December 15th. So we assume that we will expend 6 avaliable days for the last iteration. These means that the total length of the project is 487 hours.

COST ESTIMATION

For the cost we assume that each hour cost 20€. So with the total of hours, the budget is 20*487=9740€ worth.

We decided to implement a LDAP service in order to make registrations and logins of the users. We assume that we will have 4 managers and 12 employees, which implies a total of 16 users accessing the application. The Google LDAP service is 2€ per user per month. So to the previous cost, we have to take into account that the maintenance cost will be 348€/year due to this service.