UNIVERSIDAD DE GUADALAJARA
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Status Accounting Report

System for the Analysis of Nanoparticles Micrographs

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4.1 Status Accounting Reports

Table 4.1. CR-04 status accounting report

Date of approval	January 18, 2023	Date implemented	January 28, 2023
CR ID	CR-04 Detailed report generation of software use for experiments involving nanotechnology		
CR description			
This change request involves generating a detailed report on the use of software for experiments involving nanotechnology. The report should include experiments performed and the number of users weekly, and non-compliance with this new law can lead to economic sanctions to the company using the system.			
CI affected			
- Data Collection Module - Data Storage Module - Reporting Module			
Estimated budget	$50,000		
Estimated time	10 weeks		
Estimated people	Design team: 1 full-time person for 10 days Development team: 2 full-time persons for 40 days Testing team: 1 full-time person for 10 days		
Performed budget	$52,000	Difference	+$2,000
Performed time	11 weeks	Difference	+1-week
Involved people			
Diego Morales			
Performance of human resources			
The developer team finished the CR implementation on time but QA needed to implement a new test to ensure the quality of the system, as a result, 1extra week was required.			
Issues			
Quality team required an extra week for validation and testing as a result in the CR had a 1-week delay and an additional $2,000 to the cost of the CR implementation.			
Outcome			
It was finished and completed, although it took additional time due to the need to code and conduct tests before confirming its validation.			

Table 4.2. CR-05 status accounting report

Date of approval	January 28, 2023	Date implemented	February 18, 2023
CR ID	CR05 - Reports using JSON and RDF schema, with government server timestamp acknowledgment and storage in the system		
CR description			
The reports generated by the system will use both JSON and RDF schema. The government server will acknowledge the reports with a timestamp and store them in the system.			
CI affected			
- Report generation module - Report database - Government server interface			
Estimated budget	$15,000		
Estimated time	4 weeks		
Estimated people	1 developer		
Performed budget	$14,000	Difference	-$1,000
Performed time	4 weeks	Difference	0
Involved people			
Iker toscano			
Performance of human resources			
This modification will require one full-time developer who will work for 20 days. The developer should be experienced in JSON and RDF schema and should have experience in report generation.			
Issues			
None			
Outcome			
Successful implementation of the change request was achieved by following established procedures, collaborating between the development and quality control teams, conducting thorough testing, and providing training to ensure effective utilization of the system. As a result, the project improved efficiency and successfully met the client's specific needs.			

Table 4.3. CR-06 status accounting report

Date of approval	March 18, 2023	Date implemented	March 28, 2023
CR ID	CR06 - Implementation of Cryptographic Module for Transactions with Government Server		
CR description			
This change request proposes implementing a cryptographic module to ensure secure transactions with the government server. The previous requirement of non-interaction with other systems is no longer possible.			
CI affected			
User Registration Module Login Module Report Generation Module User and Report Databases			
Estimated budget	$35,000		
Estimated time	6 weeks		
Estimated people	Development team: 2 full-time persons		
Performed budget	$40,000	Difference	+$5,000
Performed time	8 weeks	Difference	+2 weeks
Involved people			
Ana Barbara			
Performance of human resources			
This change request requires the involvement of the Development team, consisting of two full-time persons for 30 days.			
Issues			
One challenge encountered during the implementation was a team member lacking the necessary technical proficiency, which caused delays in the process.			
Outcome			
The implementation took longer than expected due to a delay caused by one team member who was unable to meet the required technical proficiency. However, the issue was addressed promptly by providing additional training and support to the team member. Once the necessary skills were acquired, the implementation proceeded smoothly, resulting in a successful outcome for the project.			