# Sharik Camila Rueda Lucer - A00399189

# Identificación del problema y análisis de requerimientos

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| Customer | Green SQA(empresa de tecnología) |
| User | Employee |
| Functional requirements | RF1: Management of Project.  RF2: Management of the project stages.  RF3: Completion of a stage of the Project.  RF4: Register knowledge capsule.  RF5: Approval of the capsule.  RF6: Publication of the capsule to the organization.  RF7: Consult knowledge capsule |
| Contect of the problem | In this matter, there is a GreenSQA organization that tries to retain the knowledge of employees before the employee is replaced by another employer. For this, software is created. Project management, which basically consists of accepting projects from customers, the system asks the user to save some important data. This version has 10 projects. Project stage management consists of creating different stages with their respective dates (planned and actual) and saving the approval for stage completion. Completing a project milestone consists of deactivating a milestone and then activating the next milestone. A Knowledge Capsule record consists of storing specific information inside a container that can store information about the project or organization itself. Capsule approval to allow administrators to approve the best capsules. Capsule publishing to an organization consists of capsules of interest to the organization approved and generated in HTML format for publication on the organization's Internet. Knowledge Capsule queries consist of capsules that have already been generated and approved so that people in your organization can consult them in an easier way.. |
| Non-functional requirements | RNF1: The software must be flexible so that in the future it can support different modifications of dates or stages of the project.  RNF2: The software must be secure when entering data for the creation of a project.  RNF3: The software must be able to generate each report in less than 15 days.  RNF4: The software must be capable of recording 50 capsules at the same time properly.  RNF5: The software must be able to adapt to any type of operating system |

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| Identifier and name | *[RF1-* Management of Project*]* | | | |
| Summary | The software must be able to enter and save the project name, client name, project start date, project end date, project budget cost, project names and cell phone numbers. managers for both Green and the client. After entering all these data correctly, the system will display a pop-up message. There will be only 10 projects. | | | |
| Input | **Input Name** | **Date Type** | | **Condition valid Values** |
| ProjectName | String | | *It will have a maximum of 30 characters, only letters.* |
| UserName | String | | *It will have a maximum of 25 characters, only letters.* |
| StartDate | Calendar | | dd-mm-yyyy |
| EndDate | Calendar | | dd-mm-yyyy |
| Budget | double | | It will have a maximum of 10 whole numbers and decimals. |
| ManagerName | String | | *It will have a maximum of 25 characters, only letters.* |
| PhoneManager | String | | It will have a maximum of 10 positive integers. |
| results or postconditioning | The data was saved correctly in the database.  The data was not saved correctly in the database, please try again. | | | |
| Output | **Output Name** | | **Data Type** | **Format** |
| Pop-up message | | String | The data was saved correctly in the database. |
| Pop-up message | | String | The data was not saved correctly in the database, please try again. |

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| Identifier and name | *[RF2-* Management of the project stages.*]* | | | |
| Summary | The project will have one type of stage which is divided into 6; initiation, analysis, design, execution, closure and project monitoring and control. Each stage will have a start and end date (planned) and a start and end date (actual). To set the planned date, the system will prompt the user for the number of months required for each stage. It will also allow you to save stage completion approvals and project creation, once the project is created, 6 stages are automatically created, but only the initial stage remains active. | | | |
| Input | **Input Name** | **Date Type** | | **Condition valid Values** |
| CreatePhase | String | | When the project is created, the six stages are automatically created, but only the initiation stage remains active, the others remain inactive |
| PhaseType | String | | "project initiation, analysis, design, execution, closure and monitoring and control". |
| PlannedStartDate | Calendar | | dd-mm-yyyy |
| PlannedEndDate | Calendar | | dd-mm-yyyy |
| ActualEndDate | Calendar | | dd-mm-yyyy |
| ActualStartDate | Calendar | | dd-mm-yyyy |
| StageApproval | boolean | | True or False |
| MonthsStage | Calendar | | dd-mm-yyyy |
| results or postconditioning | The stage information has been successfully entered into the database. | | | |
| Output | **Output Name** | | **Data Type** | **Format** |
| Mensaje | | String | The stage information has been successfully entered into the database. |

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| Identifier and name | *[RF3-* Completion of a stage of the Project*]* | | | |
| Summary | For the stage to end, the program will allow you to record the stage approval, the actual end date and the transition from active to inactive. In turn, the next stage will be activated, with the actual start date. | | | |
| Input | **Input Name** | **Date Type** | | **Condition valid Values** |
| Actual  DateCompletion | Calendar | | mm-dd-yyyy |
| StageStatus | boolean | | True or False |
| Resultado o Postcondición | The stage was successfully completed. It is inactive  The stage did not finish correctly. It is active | | | |
| Output | **Output Name** | | **Data Type** | **Format** |
| Pop-up message | | String | The stage was successfully completed. It is inactive |
| Pop-up message | | String | The stage did not finish correctly. It is active |

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| Identifier and name | *[R-4-* Register knowledge capsule] | | | |
| Summary | At each stage of the project, the system will store the name and position of the collaborator. Each capsule has a respective identifier, description of the situation to be recorded, a capsule type (technical, management, domain and experiences), the name and position of the collaborator and the lesson learned from that situation. You can only enter up to 50 capsules per stage.  In addition, when a word is considered important, it must be marked with "#" before and after" to be saved as a keyword and then relate them in a feature of the capsule called "hashtag". All capsules go through a review before being approved and published. | | | |
| Input | **Input Name** | **Date Type** | | **Condition valid Values** |
| IDCapsule | String | | *Exact value of the capsule identifier* |
| SituationDescription | String | | *It will have a maximum of 200 characters* |
| SituationLearning | String | | *It will have a maximum of 300 characters* |
| PalabrasClaves | String | | *Enter keywords to be searched for after with "#" (Required) before and at the end.* |
| TipoCápsula | String | | Between technical, management, domain and experiences |
| EmployeeName | String | | *It will have a maximum of 25 characters, only letters.* |
| PositionEmployee | String | | *It will have a maximum of 20 characters, only letters.* |
| results or postconditioning | Capsule was successfully registered  Capsule was not successfully registered  The keywords that were written with "#" and the identification of the person who entered this description are also displayed.. | | | |
| Output | **Output Name** | | **Data Type** | **Format** |
| Pop-up message | | String | Capsule was successfully registered |
| Pop-up message | | String | Capsule was not successfully registered |
| CapsulaHashtag | | String | Keywords are displayed |
| EmployeeName | | String | Name of the person who registered the capsule |
| PositionEmployee | | String | Position held by the person who registered the capsule |

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| Identifier and name | *[RF5-* Approval of the capsule*]* | | | |
| Summary | When approving capsules the software should allow recording the date of approval.. | | | |
| Input | **Input Name** | **Date Type** | | **Condition valid Values** |
| ApprovalDate | Calendar | | *mm-dd-yyyy* |
| results or postconditioning | Approval dates were successfully registered  Approval dates were not successfully registered | | | |
| Output | **Output Name** | | **Data Type** | **Format** |
| Approved Capsules | | boolean | True or False |

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| Identifier and name | *[RF6-* Publication of the capsule to the organization*]* | | | |
| Summary | The system takes the capsule of interest from the pre-approved organization that will be generated in HTML format for publication on the Organization's website, where the Url will be stored. | | | |
| Input | **Input Name** | **Date Type** | | **Condition valid Values** |
| ApprovalCapsule | boolean | | Falso o verdadero |
| Url | String | | Link |
| results or postconditioning | The capsules were satisfactorily published on the Organization's Intranet.  The capsules were not satisfactorily published on the Organization's Intranet. | | | |
| Output | **Nombre salida** | | **Tipo de dato** | **Formato** |
| Pop-up message | | String | The capsules were satisfactorily published on the Organization's Intranet. |
| Pop-up message | | String | The capsules were not satisfactorily published on the Organization's Intranet. |

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| Identifier and name | *[RF7-* Consult knowledge capsule*]* | | | |
| Summary | The software allows people in the organization to successfully access the knowledge capsules through a search string found in the capsules or through the "#". | | | |
| Input | **Input Name** | **Date Type** | | **Condition valid Values** |
| SearchCápsula | String | | You can enter a string that is in the capsules or by means of the "#".  It will have a maximum of 70 characters. |
| results or postconditioning | Can successfully access the knowledge capsules  Cannot successfully access knowledge capsules | | | |
| Output | **Output Name** | | **Data Type** | **Format** |
| Pop-up message | | String | Can successfully access the knowledge capsules |
| Pop-up message | | String | Cannot successfully access knowledge capsules |