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**Problem identification and requirements analysis**

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| Customer | Green SQA(technology company) |
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| User | Employees |
| 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. |
| Context of the problem | In this problem we have the GreenSQA organization where it seeks to efficiently retain the knowledge of employees before they rotate to other employers. For this, a software will be created, which will have: **Management of Project**, basically consists of accepting a project from a client, therefore, the system will ask the user for some important data to be stored, in this version there will only be 10 projects. **Management of the project stages**, consists of creating the different stages with their respective dates (planned and actual) and saving the approval of the completion of the stage. **Completion of a stage of the Project**, consists of the inactivity of a stage and in turn activate the next stage. **Register knowledge capsule**, consists of storing certain information inside a container, which may store information about a project or the organization itself. **Approval of the capsule**, which allows managers to approve the most suitable capsules. **Publication of the capsule to the organization**, consists of the capsules of organizational interest that are approved and generated in HTML format to be published on the organization's Internet. **Consult knowledge capsule**, consists of the capsules already generated and approved to be consulted by the people of the organization 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 should allow you to enter and store the project name, client name, project start date, project end date, project budget value, project managers' names and cell phone numbers for both Green and the client. After all these data are entered 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 30 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 30 characters, only letters.* |
| PhoneManager | String | | It will have a maximum of 10 positive integers. |
| results or postconditioning | The data was stored correctly in the database.  The data was not stored correctly in the database, please try again. | | | |
| Output | **Output Name** | | **Data Type** | **Format** |
| pop-up message | | String | The data was stored correctly in the database. |
| pop-up message | | String | The data was not stored correctly in the database, please try again. |

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| Identifier and name | *[RF2-* Management of the project stages*]* | | | |
| Summary | The execution of the projects will have a type of stage that is divided into 6; initiation, analysis, design, execution, closure and monitoring and control of the project. Each stage will have a start and end date (planned) and a start and end date (actual). To assign the planned dates, the system will ask the user for the number of months that each stage will take. It will also allow to save the approval of the completion of the stage and the creation of the project, once the project is created, the 6 stages are automatically created, but only the start stage is active. | | | |
| Entradas | **Input Name** | **Date Type** | | **Condition valid Values** |
| CreatePhase | String | | When the project is created, the six stages are automatically created, but only the startup 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 correctly registered in the database. | | | |
| Output | **Output Name** | | **Data Type** | **Format** |
| Pop-up message | | String | The stage information has been correctly registered in the database. |

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| Identifier and name | *[RF3-* Completion of a stage of the Project*]* | | | |
| Summary | For the stage to end, the software will register the approval of the stage, the actual date of completion and it goes from active to inactive. In turn, the next stage is activated, with the actual start date. | | | |
| Input | **Input Name** | **Date Type** | | **Condition valid Values** |
| Actual  DateCompletion | Calendar | | mm-dd-yyyy |
| StageStatus | boolean | | False or True |
| results or postconditioning | The stage completed correctly, is inactive.  The stage has not been completed correctly, it is active. | | | |
| Output | **Output Name** | | **Data Type** | **Format** |
| Pop-up message | | String | The stage completed correctly, is inactive. |
| Pop-up message | | String | The stage has not been completed 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 ID of the person who will record the knowledge capsules, which will be entered with a respective identifier, description of the situation you want to register, a type of capsule (technical, management, domain and experiences), the name and position of the collaborator and the lesson learned with 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 before being approved and published go through a review. | | | |
| 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 200 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 30 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* |
| Resultado o Postcondición | Approval dates were successfully registered  Approval dates were not successfully registered | | | |
| Output | **Output Name** | | **Data Type** | **Format** |
| Approved Capsules | | boolean | False or True |

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| Identifier and name | *[RF6-* Publication of the capsule to the organization*]* | | | |
| Summary | The system takes the previously approved capsules of organizational interest, they will be generated in HTML format to be published on the Organization's website, for which the Url will be stored. | | | |
| Input | **Input Name** | **Date Type** | | **Condition valid Values** |
| ApprovalCapsule | boolean | | Falso o verdadero |
|  | Url | String | | Link |
| Resultado o Postcondición | The capsules were successfully published on the Organization's Intranet.  The capsules were not successfully published on the Organization's Intranet. | | | |
| Output | **Output Name** | | **Data Type** | **Format** |
| Pop-up message | | String | The capsules were successfully published on the Organization's Intranet. |
| Pop-up message | | String | The capsules were not successfully published on the Organization's Intranet. |
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| Identifier and name | *[RF7-* Consult knowledge capsule*]* | | | |
| Summary | The software will allow people in the organization to successfully access the knowledge capsules through a search string 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 100 characters. |
| Resultado o Postcondición | Can successfully access the knowledge capsules  Can not successfully access knowledge capsules | | | |
| Output | **Output Name** | | **Data Type** | **Format** |
| Pop-up message | | String | Can successfully access the knowledge capsules |
| Pop-up message | | String | Can not successfully access knowledge capsules |