**TABLA DE ESPECIFICACIÓN DEL PROBLEMA DE INGENIERÍA DE SOFTWARE, identificando los siguientes elementos**

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| CLIENT | GreenSQA |
| USER | Management staff and collaborators. |
| FUNCTIONAL REQUIEREMENTS | R1: Project people management.  R2: End stage of project.  R3: Record capsules of knowledge.  R4: Approval of the capsules  R5: Publication of the capsules to the organization  R6: Show types of capsules.  R7: Show learned lessons.  R8: Show the project with most capsules.  R9: Show if a worker has registered a unit.  R10: Search situations and lessons learned. |
| CONTEXT OF THE PROBLEM | The company GreenSQA is requesting the creation of software that allows the creation and management of knowledge capsules where employees record relevant information regarding the projects to which they belong, with the aim of avoiding knowledge leaks during the process of employee turnover.  Within the software, two types of users must be identified. 1.) The service manager is the one who oversees supervising the people who work on the project, and managing the members who are part of the teams. 2.) The collaborators, who are the ones in charge of filling out the knowledge capsules in question. Of them, their full name, identification, date of entry into the organization and position will be stored in the case of collaborators only.  These capsules must have the capacity to be published on the company's intranet. In addition, a report must be submitted showing the performance of the workers in their respective project and the types of capsules. |
| NON-FUNCTIONAL REQUIREMENTS. | * RN1: The software must have a Simple Interface, easy to use by the employees. * RN2: The system must be able to connect to the organization intranet. * RN3: The system must allow the entry of voice dictation for the registration of knowledge capsules. * RN4: Reports must be generated in less than 15 seconds. * RN5 (process requirement): The user interfaces of the applications must be designed by a UX/UI specialist. * RN6: The system must have a security system to prevent the leaking of information from the capsules. * RN8: The manager must have a web interface where he can manage the project, the information, and the staff. * RN9: The software must be able to be used in both mobile and web environments. |

| Name or identificatory. | R1: Project people management. | | |
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| Resume | The system must be allowed to store project name, customer name, planned project start date and planned project completion date, project budget value, and names and cell numbers of project managers from both Green and by the client. | | |
| Entries | Entry Name | Type of data | Select condition. |
| nameProject | String | Suggest the concern of the project |
| costumerName | String | Name and Last Name |
| plannedStartDate | String | Real time date |
| plannedFinalDate | String | Real time date |
| projectBudget | Double | N/A |
|  | cellProjectManager | String | 9 Digits |
|  | cellGreenManager | String | 9 digits |
| Postcondition | The project is registered in the system. Returning a message that indicates that the registration was successful. | | |
| Exits | Entry Name | Tipo de data | Select condition. |
| successMsg | String | The registration process was accomplished. |

| Name or identificatory. | R2: End stage of a project. | | |
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| Resume | The system can end a stage by registering its approval, the actual completion date, and goes from active to inactive. In turn, it is appropriate to activate the next stage, with the actual start date. | | |
| Entries | Entry Name | Type of data | Select condition. |
| projectAproval | boolean | N/A |
| completionDate | String | Real time |
| active | boolean | N/A |
| Postcondition | The stage of the project ends and start the new one. | | |
| Exits | Entry Name | Tipo de data | Select condition. |
| newStage | String | Last stage must be inactive |
|  | initialDate | String | Real time. |

| Name or identificatory. | R3: Register Capsule. | | |
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| Resume | The system should be able to register capsules of knowledge. A capsule has a unique identifier, a description of the situation that you want to record, a type of capsule (the types defined so far are technical, management, domain, and experiences), the name and position of the collaborator, and the learning or lesson learned with said situation. | | |
| Entries | Entry Name | Type of data | Select condition. |
| id | String | Unique for each capsule |
| description | String | Use # text # to remark the key words |
| typeCapsule | String | Technical, management, domain, and experiences |
| NameColaborator | String | Previously registered |
| chargeColaborator | String | Available in the organization |
|  | LessonLearned | String | Use # text # to remark the key words |
|  | Approval | double | N/A |
| Postcondition | The capsule takes a position in the array of capsules. | | |
| Exits | Entry Name | Type of data | Select condition. |
| msgRegister | String | N/A |

| Name or identificatory. | R4: Approval of the capsules | | |
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| Resume | The system must change the state of approval of a capsule, to be published later. Also, the system must keep the record of the date in which the capsule was approved. | | |
| Entries | Entry Name | Type of data | Select condition. |
| capsuletTobeApproved | String | It must be registered previously. |
| Approval | Boolean | N/A. |
| Postcondition | The state of the capsule changes or stays in disapprove. | | |
| Exits | Entry Name | Tipo de data | Select condition. |
| aprovalMsg | String | The capsule must be approved |

| Name or identificatory. | R5: Publishing capsules to the organization. | | |
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| Resume | The system must publish only the capsules that have the status of approved. The publication must be made only on the intranet of the organization. All collaborators have access to the published capsules. | | |
| Entries | Nombre entrada | Tipo de dato | Condición de selección o repetición |
| capsule\_aprov | String | The capsule must be previously approved |
| Postcondition | The publication remains on the organizational intranet | | |
| Exits | Nombre entrada | Tipo de dato | Condición de selección o repetición |
| capsule\_html | Html | Capsule in HTML format. |

| Name or identificatory. | R6: Show types of capsules | | |
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| Resume | The system must be able to show the amount of every type of capsule that has been registered through the projects. | | |
| Entries | Entry Name | Type of data | Select condition. |
| N/A | N/A | N/A |
| Postcondition | The amount is show by console. | | |
| Exits | Entry Name | Tipo de data | Select condition. |
| manageCounter | Int | N/A |
| domainCounter | Int | N/A |
| experienceCounter | Int | N/A |
| tecnicCounter | Int | N/A |

| Name or identificatory. | R7: Show learned lessons | | |
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| Resume | The system should be able to show the lessons learned corresponding to the capsules that are created within the project, on a specific stage. | | |
| Entries | Entry Name | Type of data | Select condition. |
| projectName | String | It must be registered previously. |
| stage Position | Int | From 0 to 5 |
| Postcondition | If the project is found, then it shows the lessons learned | | |
| Exits | Entry Name | Tipo de data | Select condition. |
| lessonsLearned | String | N/A |

| Name or identificatory. | R8: Show the project with most capsules. | | |
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| Resume | The system must show the name of the project which contains the major number of capsules created. | | |
| Entries | Entry Name | Type of data | Select condition. |
| N/A | N/A | N/A |
| Postcondition | The name of the project is shown by console | | |
| Exits | Entry Name | Tipo de data | Select condition. |
| projectName | String | Must contain the major number of capsules |

| Name or identificatory. | R9: Show if a worker has registered a unit. | | |
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| Resume | The system must receive the name of a worker, and then search if he has created a capsule in any of the projects | | |
| Entries | Entry Name | Type of data | Select condition. |
| workerName | String | Must be registered in the system. |
| Postcondition | If the worker is found, then it shows if he has registered any capsule. | | |
| Exits | Entry Name | Tipo de data | Select condition. |
| confirmationMsg | String | N/A |