**TABLE OF ANALYSIS AND SPECIFICATION OF REQUIREMENTS**

## Case: GreenSQA

## Developers: David Dulce

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| Client | **GreenSQA** |
| User | GreenSQA Employees |
| Functional Requirements | FR1 – Project Management  FR2 – Project Stages Management  FR3 – Project Stage Termination  FR4 – Knowledge Unit Registration  FR5 – Knowledge Unit Approval  FR6 – Knowledge Unit Publishing  FR7 – Knowledge Unit Search  FR8 – Report Knowledge Units by Type  FR9 – Report Lesson Learned by Stage  FR10 – Report Project with Most Knowledge Units  FR11 – Report Capsules by Collaborator |
| Problem | GreenSQA is a software high-quality assurance company. Their client's projects consist of 6 stages: start, analysis, design, execution, closure, and project monitoring and control. Due to high employee turnover, there has been a high knowledge loss reported in the company. Saving project information in a manageable and searchable "knowledge unit" via software is their solution to the problem. This would effectively preserve the information of each project without relying solely on the individuals who worked on it. |
| Non-functional Requirements | NFR1 – Easy-to-use GUI, designed by a UX/UI expert.  NFR2 – The software must be easily maintainable and upgradable. |

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| **ID and name** | ***FR1 – Project Management*** | | | |
| **Summary** | *While accepting a client’s project, the following information must be saved: project’s name, client’s name, planned start date for the project, planned end date for the project, project budget, names, and phone numbers of both from Green and client’s project managers. Just 10 projects are required for the trial version.* | | | |
| **Input** | **Input name** | **Data type** | | **Valid values** |
| name | String | | Alphanumeric |
| client | String | | Alphanumeric |
| plannedStartDate | String | | Formatted String (dd-mm-yyyy) |
| plannedEndDate | String | | Formatted String (dd-mm-yyyy) |
| budget | double | | N/A |
| PMName | String | | N/A |
| PMPhone | String | | Numeric |
| **Result** | The project’s data is stored in the system | | | |
| **Output** | **Output name** | | **Data type** | **Format** |
| done | | boolean | *N/A* |

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| **ID and name** | ***FR2 – Project Stage Management*** | | | |
| **Summary** | *Projects are divided in 6 stages: START, ANALYSIS, DESIGN, DEVELOPMENT, CLOSING\_AND\_MAINTENANCE and PROJECT\_CONTROL. Each Stage must have planned and actual start and end dates (4 total dates), stage approval (When a stage is approved, the project must move on to the next stage), active state represents which stage is the project currently on, an array of months represents the length of each stage.* | | | |
| **Input** | **Input name** | **Data type** | | **Valid values** |
| intType | int | | START, ANALYSIS, DESIGN, DEVELOPMENT, CLOSING\_AND\_MAINTENANCE and PROJECT\_CONTROL numbered from 1 to 6 |
| plannedStartDate | String | | Formatted String (dd-mm-yyyy) |
| plannedEndDate | String | | Formatted String (dd-mm-yyyy) |
| startDate | String | | Formatted String (dd-mm-yyyy) |
| endDate | String | | Formatted String (dd-mm-yyyy) |
| stagesLengths | int[6] | | Integer values separated by space characters |
| **Result** | Each stage is created inside the project with its data. | | | |
| **Output** | **Output name** | | **Data type** | **Format** |
| done | | boolean | *N/A* |

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| **ID and name** | ***FR3 – Project Stage Management*** | | | |
| **Summary** | *Projects are divided into 6 stages: START, ANALYSIS, DESIGN, DEVELOPMENT, CLOSING\_AND\_MAINTENANCE and PROJECT\_CONTROL. Each Stage must have planned and actual start and end dates (4 total dates), stage approval (When a stage is approved, the project must move on to the next stage), active state represents which stage is the project currently on, an array of months represents the length of each stage.* | | | |
| **Input** | **Input name** | **Data type** | | **Valid values** |
| intType | int | | START, ANALYSIS, DESIGN, DEVELOPMENT, CLOSING\_AND\_MAINTENANCE and PROJECT\_CONTROL numbered from 1 to 6 |
| plannedStartDate | String | | Formatted String (dd-mm-yyyy) |
| plannedEndDate | String | | Formatted String (dd-mm-yyyy) |
| startDate | String | | Formatted String (dd-mm-yyyy) |
| endDate | String | | Formatted String (dd-mm-yyyy) |
| stagesLengths | int[6] | | Integer values separated by space characters |
| **Result** | Each stage is created inside the project with its data. | | | |
| **Output** | **Output name** | | **Data type** | **Format** |
| done | | boolean | *N/A* |