Capgemini

Software Requirement Specification

(SRS) Document

For

Scrum Process Management

Sprint 1

Project Timeline: 20.10.2022 to 27.10.2022

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1. Introduction: -

A Release backlog manager for Scrum Master is a console based utility to add/modify Features for a particular release.

Stakeholders (Release Management/Product Management and Scrum master) can review the features desired in Product backlog select them for a particular release based on priority, and the capacity available and efforts involved for a particular feature.

This software requirement specification provides an overview of the entire software. The entire SRS with overview description purpose, scope, tools used and basic description.

The aim of this document is to gather, analyze and give an in-depth insight into the complete Feature Backlog Management for Product and Release Management.

The detailed requirements of the Release Backlog Manager application is provided in this document.

1.1 Purpose: -
The purpose of this software or project is to show the requirements for the Scrum Process Management which creates a direct contact between Product Owner and Release Manager. And it will provide a efficient and handy Platform for the development of proposed product or software.

1.2 Intended Audience: -
This document is intended to be read by Development Team and Release Manager.

1.3 Intended Use: -

- Development Team
- Release Manager
- Maintenance Team
- Product Manager

Since this is a general-Purpose Software hence anyone who is associated with Development can use this software.

1.4 Scope: -

      This project aims to create the development of an Scrum Process Management. This system consists of an application which will serve as a platform for the development team and Product Owner to add/modify Features for a particular release.

      This System provides a reliable platform to the developer team and Product owner to follow the Agile methodology in an efficient manner.

It provides a platform for the interaction of Development team and Product Management.

      Future Scope of this Project is that it can implement next step that involves in the Scrum Process Management for Example Sprint Backlog. Another User Like Scrum Master can also be integrated with the future proposed system.

2. Overall Description: -

The Scrum Process Management is a Software which helps to manage the process of software development.

It allows:

- It allows Product Owner to orders the work for complex problem into Product Backlog and can add any numbers of Features which he wants to add into its product.

- The scrum Teams turns a selection of the work into an increment of value during the selection.

- The Release Manager and Stakeholders inspect the result and adjust the features according to the Shirt size and capacity as well as Priority.
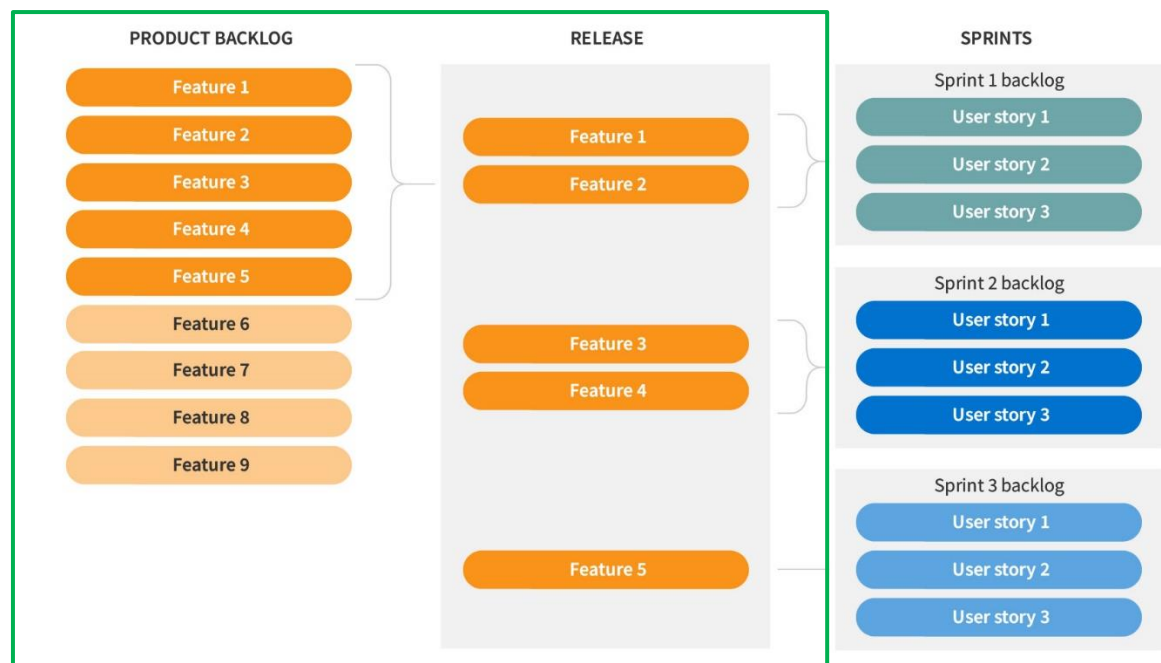
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The Product Owner can add any number of features which he wants to introduce for his product. The features added by the Product Owner will be stored into the Product backlog list which can be later remove or modify by the Product owner itself.

After the addition of features into the Backlog list by Product Owner, the role of release manager comes into play. Now the Release Manager needs to select the features from the Backlog list according to the Priority marked by Product owner.

The Shirt size and Capacity of Development team should also be taken into consideration while selecting Features for release.

2.1 Assumptions and Dependency: -

- System should have any Distribution of Linux installed.

- The Proposed System is intended to works on Terminal GUI.

- System should have either 4GB or more RAM.

- The service is used preferably on a desktop or laptop.

3. System Features and Requirements: -

3.1 Functionality: -

3.1.1 ->Registration process: The Release Manager and the Product Owner/Manager who are going to involve in the process of Development of Product need to register themselves along with Username and Password.

3.1.2 ->Choose Category/User List: After Registration process it will prompt a category list to select how would the user want to login into. Either user wants to login as Product Manager or Release Manager.

3.1.3 -> Product Owner Registration: After choosing the Product Owner as the user, the first step is to register itself for the authentication process.

3.1.4 -> Release Manager Registration: Similarly, if the user chooses the category as Release Manager then he/she has to register itself for the authentication process.

3.1.5 -> Product Owner Login: After Successful registration the product owner need to login with the help of credentials provided during registration process like Password and Username.

3.1.6 -> Release Manager Login: After Successful registration, the Release Manager needs to login with the credentials provided during the registration time.

3.1.7 -> Features Updates: After Successful login, the Product Owner needs to add the proposed features into the Backlog list along with the shirt size and Priority.

3.1.8 -> Shirt Size Updates: The Product Owner needs to update the shirt size for each given features which he is going to add in the Product Backlog.

3.1.9 -> Priority Updates: Along with the shirt size, the Priority of each feature should also be mentioned. So that the Release Manager select the features according to the priority assigned with it.

3.1.10 -> Validate/Select Features: Now the Release manager need to validate and modify the given features present in the Product Backlog list.

3.1.11 -> Capacity validation: During the Selection of the Features the capacity should also be taken into consideration. The cost of the whole features should not be greater than the assets available.

3.1.12 -> Assigning to Release: After performing all the steps like validation of features and capacity the selected features needs to be release for implementation by development team.

3.1.13 -> Final Report: At last, the Final Report will be given. The Final Report will include all the details of Features which will be going to release for the given release of product.

3.2 System Requirements: -

3.2.1. Tools to be used:

- Valgrind
- Splint
- Makefile
- C File Handling

3.3 System Features: -

- Supportability: The system is easy to use.

- Design Constraints: The system is built using only C language.

- Usability: The Scrum Process Management system will cut down the gaps between the Product Manager and Release Manager and will be more helpful by providing platform for efficient interaction between both.

- Reliability & Availability: The system is available 24/7 that is whenever the user would like to use the system, they can use it up to its functionalities.

- Performance: The system will work on the user's terminal. It is a Terminal based Software.

4. Data Flow Diagram:

The DFD or Data Flow Diagram maps out the flow of information for the given software. The given DFD diagram depicted the flow of data and information of the proposed system.

4.1 DFD Level 0 –

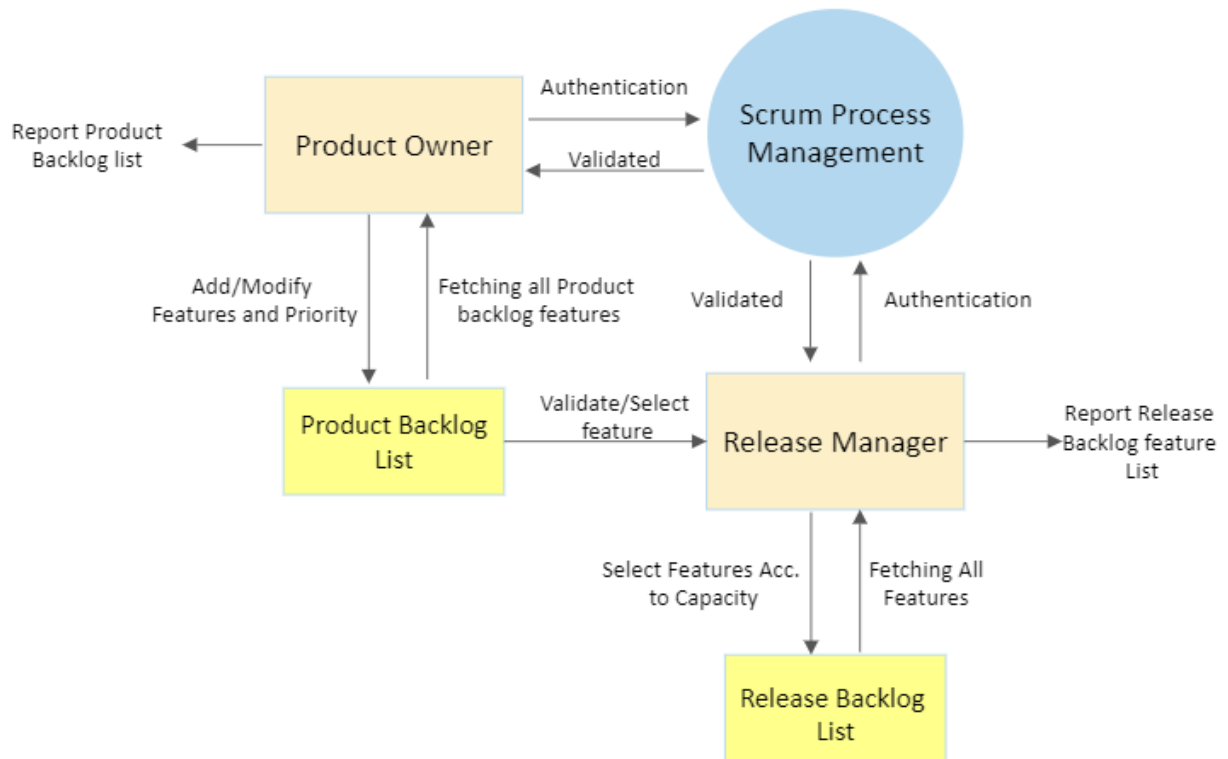This is the DFD level 0 diagram of given software:
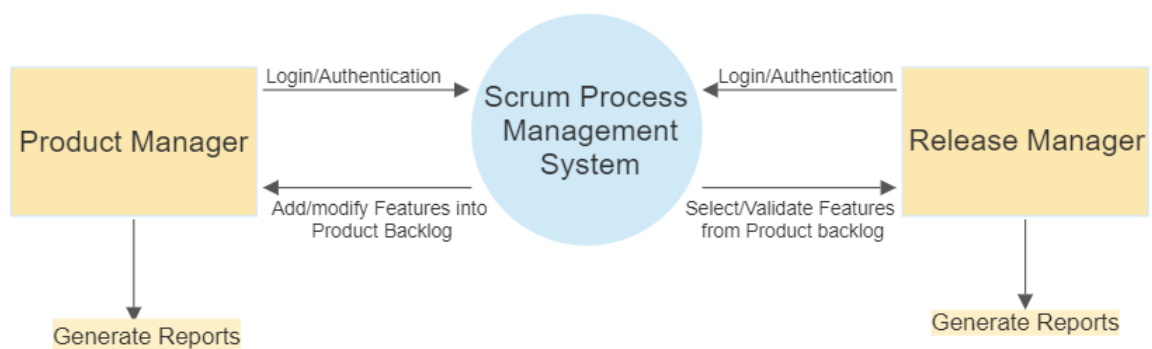
Level 0 DFD

4.1 DFD Level 1 –

This is the DFD level 1 diagram of given software:

DFD Level 1