SCRUM PRODUCT RELEASE MANAGEMENT

High Level Design Document

Document Control :

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Date	Version	Author	Brief Description of Changes	Signature
21-10-2022	1.0	Ajay, Ankit, Ravi, Karan, Himanshu		

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.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.

1.1.Intended Audience:

There is no such specific audience, it could be a student or employee or an organization also.

1.2 Acronyms/Abbreviations:

Product Owner	USER
Release Manager	USER

1.3 Key Project Objectives:

1. Allow Product Owner & Release Manager for Registration
2. Allow Product Owner & Release Manager for Login
3. Validates username and password
4. Allow to add, delete, and display Features
5. Allow Release manager to select feature
6. Allow Release Manager to Release features.

1.4 Project Scope and Limitation:

New User can only register one time in a software. It means that for one software there can be only Product Owner and One Release Manager.

1.5 In 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.

1.7 Functional Overview

The following functions are included in the program:

1. productOwnerRegistration();

    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.

2. releaseManagerRegistration();

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

3. int productOwnerLogin();

    After Successful registration the product owner need to login with the help of credentials provided during registration process like Password and Username.

4. int releaseManagerLogin();

    After Successful registration, the Release Manager needs to login with the credentials provided during the registration time.

5. int displayFeatureBacklog();
    This Function will display all the features that are present in the the Product Backlog list.

6. int displayFeatureRelease();
    This Function will display all those features which are present in the feature Backlog List. This Feature Backlog list can be access by Release Manager.

7. int importFeatures(int choice);

This Function take one argument which is Feature Id. This will select the feature from Product Backlog List to Feature Backlog list.

8. int addProductBacklog();

This Function is going to add the features to the Product Backlog list. This function will be accessed by Product Owner. Product Owner can take as much feature as he wanted.

9. int deleteBacklog();

This function will delete the feature from Product Backlog List one by one.
This can be used by Product owner to delete the Unwanted Features from the List.

10. int deleteFeatures();

This Function will delete features from Release Backlog List One by one,
The Release Manager can access this function to delete the features he wanted to remove.

2.Design Overview:

Scrum Process Management comprises of the following modules:

Name of the module	Menu
Handled by	Ajay Ankit
Description	It contain all the menu like add, delete, display, or exit etc.

Name of the module	Validation
Handled by	Ravi Sain , Ajay
Description	It consist of all the function that validates all the inputs.

Name of the module	Product Owner Registration and LOgin
Handled by	Ankit, Karan
Description	Authentication function for both User

Name of the module	Release Manager Registration and Login
Handled by	Ajay, Himanshu
Description	Authentication function for both User

Name of the module	Add Feature and Delete Feature
Handled by	Ajay , Ankit
Description	Adding features in Backlog List

Name of the module	Display Feature
Handled by	Himanshu, Karan
Description	Displaying all the features that are Present

2.1 Design Objectives:

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.

2.2.1 User Interface Paradigms:

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.

2.2.3 Performance:

The system will work on the terminal. The performance depends on the hardware component of the user's system.

2.2.4 Maintenance:
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Very little maintenance should be required for this setup. An initial configuration will be the only system required interaction after system is put together. The only other user maintenance would be any changes to settings after setup, and any specified special cases where user settings or history need to be changed.

Physical maintenance on the system's parts may be required, and would result in temporary loss of data or Internet. Upgrades of hardware and software should have little effect on this project but may result in downtime.

3.Environment Description:

3.1 Time Zone Support: IST- Kolkata

3.2 Language Support: US English

3.3 User Desktop Requirements:

64 bit processor, 1GHz or faster

Atleast 2 GB free hard disk space

Atleast 1 GB Ram

3.4. Integration Requirements:

      1. Language: C

      2. Tools: Valgrind , make

      3. Compiler: gcc

      4. Linux Environment

3.5 Jobs:

We can establish interaction between Product Owner and Release Manager who are involve in the Development. And we can modify the t-shirt size and Priority according to our choice.

3.5 Configuration:

3.5.1: Operating System: Linux environment Ubuntu 20.04