

MrBuggy 7. Test Plan. Summary and samples.

The competition task was to write a test plan document for the Change Request 1 (below) that will be implemented in the next version, in reference to the current Mr Buggy version.

Change Request 1

Title: Change request pricing estimation

Type: Enhancement

Deadline: August 2019

ID: CR1

Priority: High

Justification:

The goal of the Mr Buggy application is to efficiently manage Change Requests for multiple suppliers. Business pointed out that the decision making of approving or modifying CRs still requires a lot of effort as MD estimation is not enough. Business requires a price estimation, which should be presented to them in euro for each CR and which allows them to make a comparison between CRs and CR value.

Abstract:

One of important factors of accepting or denying a Change Request is the ratio of improvement versus price of the change. As the owner of Mr Buggy, I want to see the estimated price for the Change Requests. I want the user with Administrator role to have access to dictionary with information how much 1 MD of work costs for each supplier. I want the Administrator to be able to modify these values, add new suppliers and costs, and setup a default value for suppliers if they are not present in the dictionary. I want to be able to state the currency in which the cost per supplier is described. I want to be able to remove the suppliers' cost, but only if there is no CR assigned to this supplier in the status different than 'Draft', 'New', 'Rejected' or 'Archived'.

I want to have price calculated next to MD effort on each CR after 'Priced' status. Price must include the currency symbol.

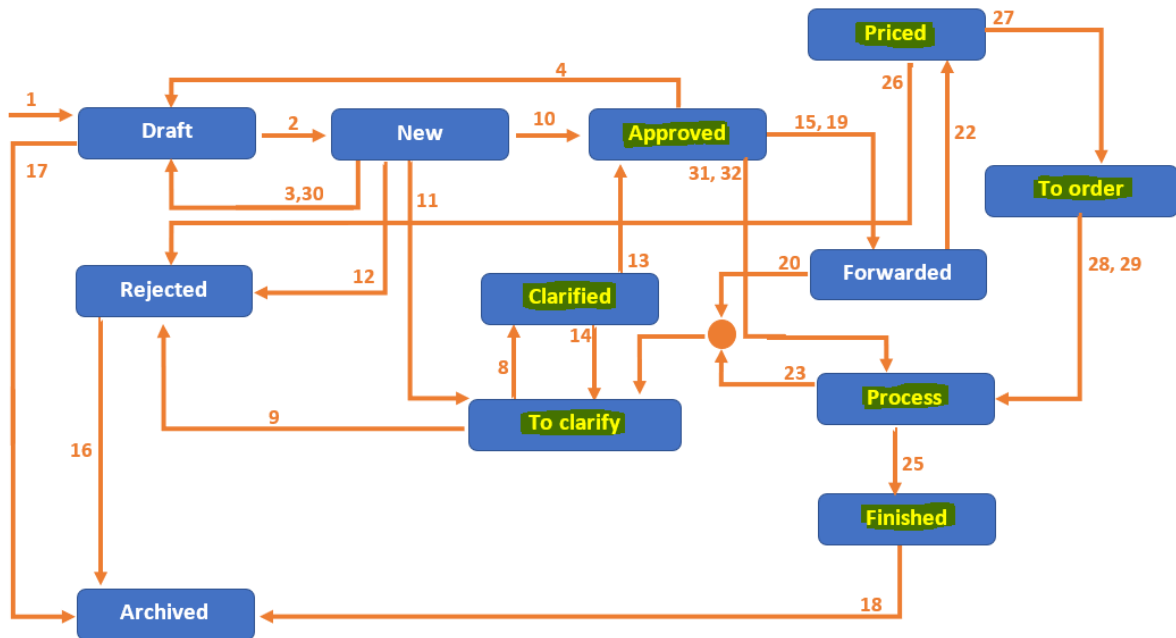
If the supplier cost is updated in Administrator dictionary, I want a confirmation notification to appear together with information that the price will be re-calculated automatically for all CRs of this Supplier. In case of agreement, I want the prices to be re-calculated; in case of disagreement, I want to reject the change.

The work load estimated in MD and price must never be seen by competitive suppliers as there might be the same CR raised with multiple suppliers.

Related documents:

- Workflow steps affected by price calculation
- List of available currencies.

Workflow steps affected by price calculation



List of available currencies

Currency	Short name	Symbol
European euro	EUR	€
United States dollar	USD	\$
Polish zloty	PLN	zł
Pound sterling	GBP	£

Best Test Plan [in Polish only]

By "Fest Pochytani"

PLAN TESTÓW

Id: 06/10/2019/1432

Tytuł: Plan testów 'Change request 1' do aplikacji Mr Buggy 7.0

Autor: Kapitan ABC

1. Wprowadzenie

Niniejszy dokument zawiera plan testów change requesta aplikacji Mr Buggy 7.0, o tytule 'Change request pricing estimation'. Aplikacja ta odpowiada za efektywne zarządzanie change requestami dostawców. Change request, który jest tematem planu dotyczy zmian funkcjonalności aplikacji Mr Buggy 7.0. Produktem końcowym będzie aplikacja Mr Buggy 7.1. Celem dokumentu jest określenie jakości aplikacji, poprzez testy, które mają za zadanie znaleźć jak największą ilość defektów. Największy nacisk będzie kładziony na problemy krytyczne. Testy bazować będą na dostarczonej dokumentacji MrBuggy-Change-Reqest-1-v1.pdf.

2. Testowane elementy

Testowanym obiektem jest aplikacja Mr Buggy w wersji 7.1. Elementy podlegające testom:

- interfejs
- wprowadzanie i zapis danych
- export danych

Aplikacja będzie testowana na podstawie dokumentu:

MrBuggy-Change-Reqest-1-v1.pdf.

Aplikacja zostanie przetestowana środowisku testowym:

- Windows 7 oraz na urządzeniach mobilnych.

3. Testowane cechy/funkcje:

- przegląd estymowanych kosztów per change request
- przegląd i edycja i dodawanie kosztów 1 MD
- wprowadzanie waluty
- usuwanie kosztów
- wyświetlanie obliczonych kosztów
- notyfikacje

4. Testowane cechy/funkcje - wyłączenia

Ze względu na zbyt krótki czas przeznaczony na testy, następujące cechy i funkcje nie zostaną przetestowane:

- wydajność aplikacji
- wersje językowe
- testy security

5. Podejście

Testy aplikacji będą bazowały na dostarczonej specyfikacji (MrBuggy-Change-Reqest-1-v1, Workflow steps affected by price calculation, List of available currencies). Zostaną przeprowadzone testy manualne oparte o techniki czarnej skrzynki. Ze względu na ograniczenia czasowe zespół skupi się na testach eksploracyjnych.

6. Kryteria zaliczenia oraz nie zaliczenia testu

Testy zaliczane będą na podstawie zgodności z dokumentacją MrBuggy-Change-Request-1-v1 oraz na podstawie akceptacji przez klienta na przeprowadzonym co-dwutygodniowym demie.

7. Kryteria zawieszenia i wznowienia testowania

Głównym kryterium zawieszenia testów jest deadline, który określa koniec implementacji - 31.08.2019. Dodatkowym kryterium zawieszenia jest przedwczesne wyczerpanie budżetu. Wznowienie testów nie jest planowane.

8. Produkty testowania

Po zakończeniu testów, będą dostępne następujące produkty:

- udokumentowana lista defektów
- lista przypadków testowych

9. Zadania testowania

Zadania, które będą towarzyszyć procesowi testowania:

- przygotowanie przypadków testowych oraz danych testowych
- wykonanie testów
- raportowanie defektów

11. Ważności defektów

- Ważność 1— Defekt krytyczny
- Ważność 2— Defekt poważny
- Ważność 3— Defekt niekrytyczny

10. Środowiska testowania

Wymagania środowiskowe: środowisko Windows 7 lub wyższe.

11. Odpowiedzialności

Zespół liczy 10 developerów o raz trzech testerów. Poniżej opisane są odpowiedzialności:

- Developerzy - implementacja oraz naprawianie defektów
- Tester X - testy funkcjonalne
- Tester Y - Przygotowanie danych testowych
- Tester Z - sporządzenie raportu błędów oraz planu testów

12. Potrzeby szkoleniowe, zapotrzebowania na zasoby

W celu zwiększenia efektywności potrzebne jest szkolenie całego zespołu z zakresu testowania API.

13. Harmonogram

- 10.06.2019 - zapoznanie się z dokumentacją oraz sporządzenie planu testów
- 11.06.2019-31.06.2019 - implementacja funkcjonalności
- 01-31.07.2019 - przeprowadzenie testów manualnych i raportowanie defektów
- 01-31.08.2019 - naprawa bugów, restesty, testy regresji
- 31.08.2019 - demo i akceptacja klienta aplikacji Mr Buggy 7.1

14. Ryzyka

Największym ryzykiem jest krótki zakres czasu przeznaczony na testy - niecałe 3 miesiące. Dodatkowym ryzykiem są małe zasoby członków zespołu w stosunku do ilości zadań

15. Zatwierdzenie planu

Plan zatwierdził kapitan drużyny XYZ.

Team Test Plans [second highest score]

By "3QA's 1 CUP"

Test plan for CR1 for Mr Buggy 2019

Date: 10-Jun-2019

Version: 1.0

Status: Draft

1. Introduction:

A. Testing purpose:

This plan shows overall testing activities which will be done by tester, to check if the functional requirements provided in CR1 (attached to this document) are fulfilled.

This document is based on IEEE 829-1999 norm (Standard for Software Test Documentation)

B. Client needs:

Client provided functional details in Change Request 1 which need to be added as Enhancement. Deadline for handling working and tested application is set to: August 2019

2. Testing

A. Overall characteristic of application

Application works as desktop app, on Windows platform. It contains REST API and database on the backend.

The goal of app is to manage Change Requests and help with decision making of approving or modifying CRs.

Change requests is about showing ratio of improvement versus price of the change.

B. Users of application:

CR is related only to Administrator user and adding new functionalities to him. Testing will be mostly focused on administration user.

C. Elements under test:

- desktop application MrBuggy2019

- REST API

D. Test scope

* Price estimation - presented in euro - for each CR

* Administrator role - able to access dictionary:

- able to modify values in dictionary

- add new suppliers

- add costs

- set up a default value for suppliers - if not present in dictionary

* No other role have rights listed above in point 2.

* Verify if price is calculated next to MD effort ONLY AFTER "Priced" status.

* Verify if price include currency symbol

* Verify if supplier cost is updated in Administration dictionary

* Verify automatically re-calculation for all CRs of given Supplier

* Check if confirmation notification is displayed together with point above

* Verify if other suppliers does not have access to estimated work load and price

E. Test exclusions:

Performance testing

Security testing

3. Testing approach

A. Levels of testing:

There will be two levels of testing. UI testing and API testing.

B. Testing techniques and tools.

Test cases will be prepared and reviewed before testing activities starts.

For API testing there will be test suite prepared in Postman.

Used test case design techniques:

- equivalent class division
- edge values analyse
- testing based on use cases

C. Test phases:

As this is small change request, there will be only one test phase.

4. Criteria

A. Passing/failing tests

For every use case there will be test cases prepared. For finishing tests 80% of test cases must pass.

B. Testing start conditions:

- Application is functional
- Use cases are prepared
- Test data is agreed
- Test cases are written

C. Testing end conditions:

- 100% Test cases were executed
 - all critical and blocking errors are fixed
- or
- deadline has passed

5. Test products:

- Test plan
- Execution test report
- Overall testing report
- Found bug list
- Fixed bug list

6. Testing environment:

Local machine with windows 7 (or higher) with .NET Framework installed.

7. Timeline

Tested application should be handed over to client in August 2018

8. Team and roles:

1. QA Lead will be responsible for preparing test reports and reporting weekly to client the progress.
2. Tester(s) will be responsible for preparing test cases and executing them.

9. Risks:

All changes will be done around estimation module, but it will change overall flow of application and might impact other functionalities.

Not all team members might be familiar with Postman and API testing.

Holidays season during phase of testing might impact staffing for this project

Individual Test Plans [highest score]

By Piotr Lesiecki

MR BUGGY 7

Test plan

Author: whDeq4R4sXXh

Version: 1.0

1. Introduction

This test plan covers the single testing phase for the change request marked as number 1 for the Mr Buggy 7 application. This change introduces new pricing model estimation, currently only estimation in MD was available but there is business need to add feature of estimation the CR's in Mr Buggy 7 with real pricing model.

2. Goals

We would like to achieve the highest possible quality in means of that none of the previous features are affected by this change and new features is introduced with as little bugs as possible and works as requested in document "MrBuggy-Change-Request-1-v1.pdf".

3. Test approach

To achieve goal mentioned in point 2 we need to prioritize our tests to run most critical business features, previously working features (test regression) and prepare proper test cases for new features.

II Test description

1. Object of tests

Compiled version of Mr Buggy 7 with changes described in MrBuggy-Change-Request-1-v1.pdf.

1.1. Main exe application file

MrBuggy7.exe located in "MrBuggy 7" project directory

1.2. Installation

No installation steps are needed if compiled exe file is given.

1.3. Functions/tools

There might be need to use test automation framework or tools to check if test api is working (ex. postman)

1.4. Documentation

The list of current features is described in file "MrBuggy-Functional-Specification-v1.pdf" located in "Docs" project directory. Changes are described in "MrBuggy-Change-Request-1-b1.pdf".

2. Functionalities to tests

There is set of new functionalities to verify:

2.1 displaying the estimated price in change request

2.2 administrator access to dictionary with information how much 1MD of work costs per supplier

2.3 modification of estimated prices by administrator

2.4 adding new suppliers and costs by administrator

2.5 setting up a default value for supplier by administrator (if they are not present in dictionary)

2.6 checking that points 2.3, 2.4, 2.5 are not possible to do by other roles than administrator

2.6 Setting up the currency in which cost is described

2.7 Removing supplier cost if there are no CR assigned to him in statuses different than "Draft", "New", "Rejected", "Archived"

2.8 Price is calculated next to MD effort and must include currency symbol

2.9 Recalculation of prices after edition with confirmation feature

2.10 Visibility of estimation restricted to only interested supplier

2.11 Workflow especially with affected statuses described by diagram in Change Request documentation.

3. What doesn't need testing

- Documentation of the project
- Locales functionalities of messages.
- Changing windows size
- Test data

4. System requirements

Windows 7 or higher should be used to test Mr Buggy 7.

5. Entry and Exit criteria

Testing should be started as soon as we receive the MrBuggy 7 with changes.

When time has ended (deadline 08.19) we should finish testing.

6. Defects

Defects should be reported in TestingCupReport.exe application and contains title, description (with steps) and category.

7. Team

Team should consist of as many people that are available in this phase to increase the quality of the product.

7.1 Test manager is the creator of this document.

7.2 Testing tasks:

- executing tests
- reporting defects
- creating test reports

8. Schedule

Start testing as soon as application with CR is received and finish until deadline or when test manager says so.

9. Stopping testing

Tests execution can be stopped only when there is critical issue with application that doesn't allow testing anymore. In that case issue should be raised and asap to the development team.

10. Monitoring

Test execution should be monitored by test manager in project to have knowledge about critical issues and in case of them raise the awareness for the business side of the project.