**Priority and Severity**

**Priority of Defects:**

* The impact of the bug of an application should be described.
* It is the order of priority which the developer will resolve the defects.
* The Priority can be changed based on the comparison with other defects.
* At the time of UAT, defects are fixed according to the priority.

**Priority can be classified as follow as:**

Immediate/Critical/very high:

This generally occurs when the entire functionality of the task is fault and no more [testing can do further for the result](https://qrsolutions.com.au/testing-best-practices/). Any defect that need immediate attention that affects the flow of the testing comes under this category. Critical severity also fall into the same category.

High:

The defect that does not meet the exit criteria. Due to such defects the testing of the entire application has been stopped until the defects are solved. These defects are resolved once the critical issues are fixed. This kind of defect should be resolved before the release.

Medium:

Defects occur when a particular feature cannot be used the way it should be because of defects in a program, environmental issue. These defects should be fixed once all the critical and serious bugs get fixed. These defects can also be fixed in the next release.

Low:

If few users of the feature encountered a defect such as minor UI issues, spelling mistakes, alignment issues and colour code mismatch are considered as low priority bugs. Sometimes these defects are opened to suggest enhancements in the existing design. This defect does not need any immediate actions as it can be resolved in future.

Severity of Defects:

* It is related to the defect fixing urgency.
* The testers will set the level of severity.
* Once the Severity is fixed it won’t change with time.
* It is based on the functionality that the defects affect.

Severity can be classified as follow as:

Blocker:

When the whole functions feature / functionality missing from the project applications and completely crashes the system will be considered as Blocker and these severity defects are having the highest priority

Major:  The implemented feature that does not meet the requirements, test cases and behaves differently than the normal flow. It does not cause any system kind of failure but not equal to the blocker but avoiding the unnecessary delay of fixing.

Minor:

The defect will not cause a failure in execution of the applications which is not a major impact. Loss of data falls in the minor severity it also falls in major severity based on the classifications.

Low/Trival:

The valid defect that should be fixed even though there is no impact on the functionality.

Here are some combinations of Priority and Severity:

High Priority and Blocker Severity:

In the login page when the username and password is entered and click submit, instead of logging in the system crashes or else it throws the error message. In the Online site while adding the cart/payment options occurred in the critical times and in the final stage, this issue can impact on business at a great level.

Low Priority and Low Severity:

Spelling mistakes which are considered as minor in the pages. Colour of the button, contents, and hovering options mismatching. Minor alignment issues in the pages that do not affect the flow much.

High Priority and Low Severity:

Displaying the brand logo or the company logo in the company site does not impact the functionalities but it affects the value of the logo that plays the important role in the [company website.](https://qrsolutions.com.au/)

Low Priority and High Severity:

A defect found on the social networking site as the beta version of a new feature is released with not many active users using the facilities as today. Though this defect is having a functional defect, as it does not impact the customers directly.

## Priority vs. Severity: Key Difference

|  |  |
| --- | --- |
| Priority | Severity |
| * Defect Priority has defined the order in which the developer should resolve a defect | * Defect Severity is defined as the degree of impact that a defect has on the operation of the product |
| * Priority is categorized into three types   + Low   + Medium   + High | * Severity is categorized into five types   + Critical   + Major   + Moderate   + Minor   + Cosmetic |
| * Priority is associated with scheduling | * Severity is associated with functionality or standards |
| * Priority indicates how soon the bug should be fixed | * Severity indicates the seriousness of the defect on the product functionality |
| * Priority of defects is decided in consultation with the manager/client | * QA engineer determines the severity level of the defect |
| * Priority is driven by business value | * Severity is driven by functionality |
| * Its value is subjective and can change over a period of time depending on the change in the project situation | * Its value is objective and less likely to change |
| * High priority and low severity status indicates, defect have to be fixed on immediate bases but does not affect the application | * High severity and low priority status indicates defect have to be fixed but not on immediate bases |
| * Priority status is based on customer requirements | * Severity status is based on the technical aspect of the product |
| * During UAT the development team fix defects based on priority | * During SIT, the development team will fix defects based on the severity and then priority |

|  |  |  |
| --- | --- | --- |
| **SL.NO** | **Severity** | **Priority** |
| 1. | Defined by the impact on the application’s functionality. | Defined by the impact on business. |
| 2. | Category decided by testers. | Category decided by developers or product owners. |
| 3. | Deals with the technical aspects of the application. | Deals with the timeframe or order to fix the defects. |
| 4. | The value does not change with time, it’s fixed. | Value of priority is subjective and may change after comparison with other defects. |

Front page design photoshootX

High Priority and High Severity:

Search logo is not working.

Low Priority and Low Severity:

Grammar mistake

-Doing smile is good for healthy life.

High Priority and Low Severity:

Photo shoot prices is not available

Low Priority and High Severity:

Gallery effect not properly