**Practical No :- 7**

**Test case name:-** Design a test cases for ball pen to ensure the highest quality.

**Objective :** This Projects Aims to test different feature of ball pen to ensure the highest quality (having create new file) .

Different testing methods and level of testing are use to test a ball pen to ensure the highest quality.

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| Test Case Template | |
| Test Case Id: 7 | Test Designed by: Rutuja Manekar |
| Test Priority ( Low/Medium/High) : Medium | Test Designed Date:30/03/2024 |
| Ball pen to ensure the highest quality | Test Executed by :Rutuja Manekar |
|  | Test Execution Date:30/03/2024 |
| **Test Title** : To test whether ball pen to ensure the highest quality function properly or not . | |
| **Description** : Test different feature of ball pen to ensure the highest quality such open notepad, new file, and so on. | |

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| **Sr  No** | **Test  Features** | **Test  Steps** | **Expected  Result** | **Actual Result** | **Status P/F** |
| 1 | Grip comfort | 1. Hold the pen in your hand as you would during normal writing.  2. Note any discomfort, pressure points, or awkwardness in holding the pen  3. Try writing a few sentences to assess comfort during prolonged use. | The pen should feel  comfortable to hold,  with no significant  discomfort or  awkwardness. | The pen should feel  comfortable to hold,  with no significant  discomfort or  awkwardness. |  |
| 2 | Writing  Smoothness | 1. Write on a piece of paper  with the pen, using various  strokes and angles. 2. Observe if there are any  interruptions or rough patches  while writing.  3. Assess the overall  smoothness of the pen's  writing experience. | The pen should write  smoothly without any  skips, hitches,  or interruptions. | The pen should write  smoothly without any  skips, hitches,  or interruptions. |  |
| 3 | Noise | 1. Write with the pen in a  quiet environment. 2. Listen for any audible sounds produced by the pen while writing. | The pen should write  quietly without  producing any  noticeable or  distracting noise. | The pen should write  quietly without  producing any  noticeable or  distracting noise. |  |
| 4 | Ink Flow | 1. Write continuously with the  pen for a few minutes. 2. Observe if the ink flow  remains consistent without  any interruptions or blotches.  3. Check for any instances  of ink overflowing or breaking. | The pen should  maintain a consistent  ink flow throughout  the writing process,  without any instances  of ink overflowing,  breaking, or drying  out prematurely. | The pen should  maintain a consistent  ink flow throughout  the writing process,  without any instances  of ink overflowing,  breaking, or drying  out prematurely. |  |
| 5 | Material  Quality | 1. Inspect the exterior and  construction of the pen. 2. Check for any signs of poor  quality materials such as  flimsiness, cracks, or rough  edges.  3. Assess the overall  durability and feel of  the pen in hand. | The pen should be  made of high-quality  materials with no  visible defects  or signs of wear. | The pen should be  made of high-quality  materials with no  visible defects or  signs of wear. |  |
| 6 | Visibility | 1. Look at the pen from  various angles and distances. 2. Check if the company or pen  name is clearly visible  on the pen's body or  packaging. | The company or pen  name should be  clearly visible and  legible, making it easy  to identify the brand  or model of the pen. | The company or pen  name should be  clearly visible and  legible, making it easy  to identify the  brand or model of  the pen. |  |
| 7 | Durability | 1. Rub the pen with moderate  pressure using a cloth or finger. 2. Observe if the pen color  or text easily rubs off. 3. Repeat the process multiple  times to simulate prolonged  use. | The pen color or text  should not easily rub  off, even with  moderate pressure  or extended use. | The pen color or text  should not easily rub  off, even with  moderate pressure  or extended use. |  |
| 8 | Line Width | 1. Write on a piece of paper  with the pen,  varying the pressure and  angle of the strokes. 2. Measure the width of the  lines produced by the  pen using a ruler or caliper. 3. Compare the measured  line widths with the  expected specifications. | The line width should match the  specifications provided  by the manufacturer,  remaining consistent  across different  writing conditions. | The line width should  match the  specifications provided  by the manufacturer,  remaining consistent  across different  writing conditions. |  |
| 9 | Ink Color  Consistency | 1. Write continuously with  the pen for an extended  period. 2. Observe if the ink color  remains consistent from  start to finish. 3. Compare the color of the  ink on different parts of  the paper. | The ink color should  remain consistent  throughout the  writing process,  without any noticeable  variations or fading. | The ink color should  remain consistent  throughout the  writing process,  without any noticeable  variations or fading. |  |
| 10 | Paper  Compatibility | 1. Write with the pen on various  types of paper, including  smooth, rough, thick, thin,  and glossy surfaces. 2. Assess the ease of writing  and the quality of the lines  produced on each type  of paper. | The pen should write  well on different types  of paper, providing  smooth and consistent  lines without any  smudging or bleeding. | The pen should write  well on different types  of paper, providing  smooth and  consistent lines without  any smudging or  bleeding. |  |
| 11 | Waterproof Ink | 1. Write with the pen on a piece  of paper. 2. Apply a small amount of  water to the written text using  a dropper or wet cloth.  3. Check if the ink smudges  or runs when exposed to water. | The ink should remain  intact and not smudge  or run when exposed  to water,  demonstrating its  waterproof properties. | The ink should remain  intact and not  smudge or run  when exposed to  water, demonstrating  its waterproof  properties. |  |
| 12 | Drying Time | 1. Write with the pen on a  piece of paper. 2. Observe the drying time  of the ink under normal room temperature and humidity conditions. | The ink should dry  within a reasonable  time frame,  allowing for smooth  and smudge-free  writing without  excessively long  drying periods. | The ink should dry  within a reasonable  time frame,  allowing for smooth  and smudge-free writing without excessively long drying periods. |  |
| 13 | Refill  Compatibility | 1. Attempt to insert other  refills or cartridges into the pen. 2. Check if the refills fit securely and allow for proper writing functionality. | The pen should be  compatible with a  variety of refills,  allowing users to  easily replace the  ink or mechanism  as needed. | The pen should be  compatible with a  variety of refills,  allowing users to  easily replace the  ink or mechanism  as needed. |  |
| 14 | Water  Immersion | 1. Put the pen in water for  a few seconds. 2. Remove the pen from the water and attempt to write with it. | The pen should not  write or perform adequately after being submerged in water, as it is not designed for underwater use. | The pen should not  write or perform  adequately after being submerged in water, as it is not designed for underwater use. |  |
| 15 | Impact Resistance | 1. Drop the pen from table  height in the upside-down  position. 2. Check if the pen still writes  after impact. | The pen should not  write or perform  adequately after  being subjected to a significant impact, as it may damage the internal mechanism or components. | The pen should not  write or perform  adequately after  being subjected to a significant impact,as it may damage the internal  mechanism or  components. |  |
| 16 | Writing Speed | 1. Write a predetermined  text or sentence with the pen. | The pen should allow for fast and efficient writing, with the user able to complete the task within a reasonable time frame without | The pen should allow for fast and efficient writing, with the user able to complete the task within a reasonable time frame without |  |
| 17 | Endurance | Write continuously for an  extended period | The pen should  perform consistently  without any issues  or degradation  in performance | The pen should  perform consistently  without any issues  or degradation in  performance |  |