

Test cases

Assignment 4



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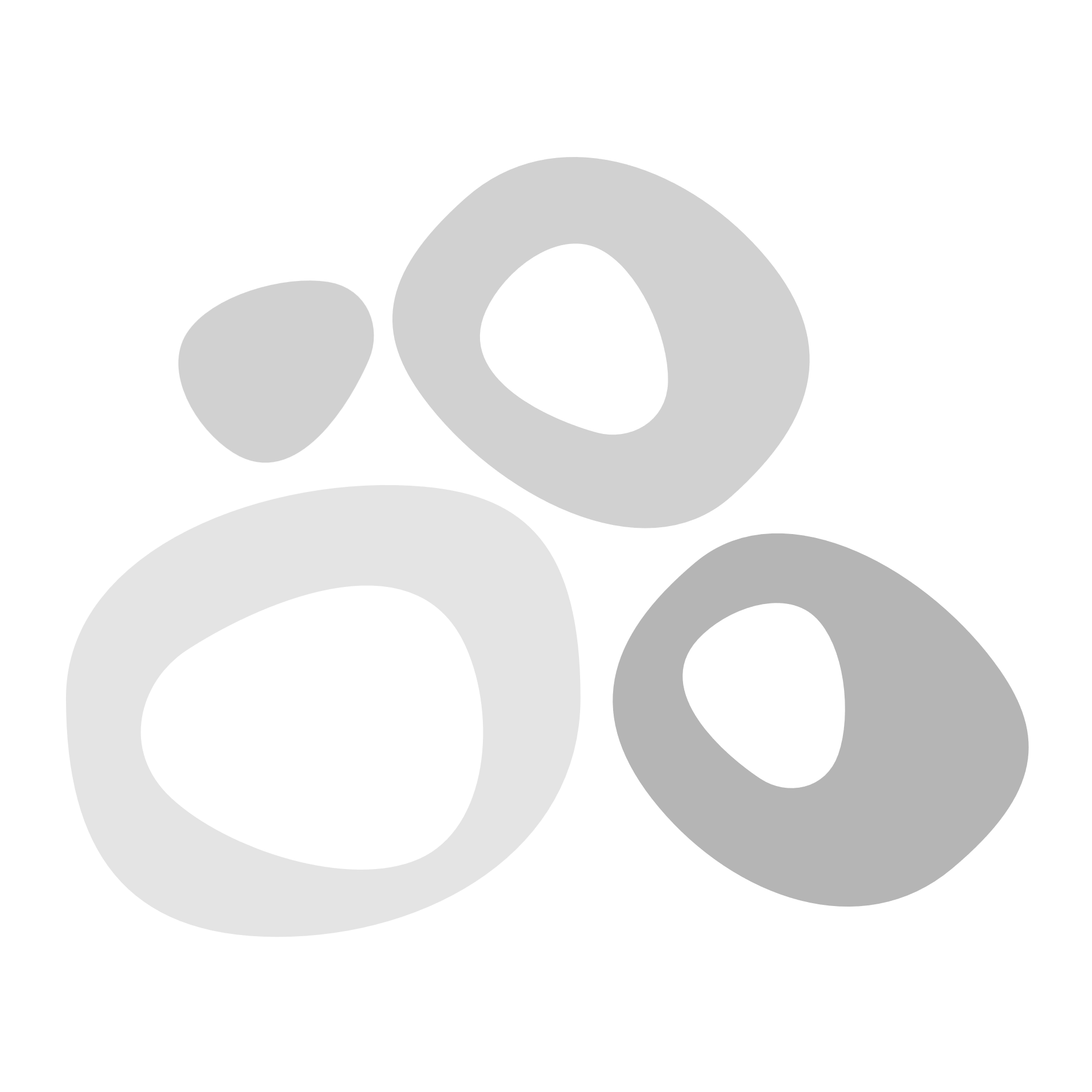
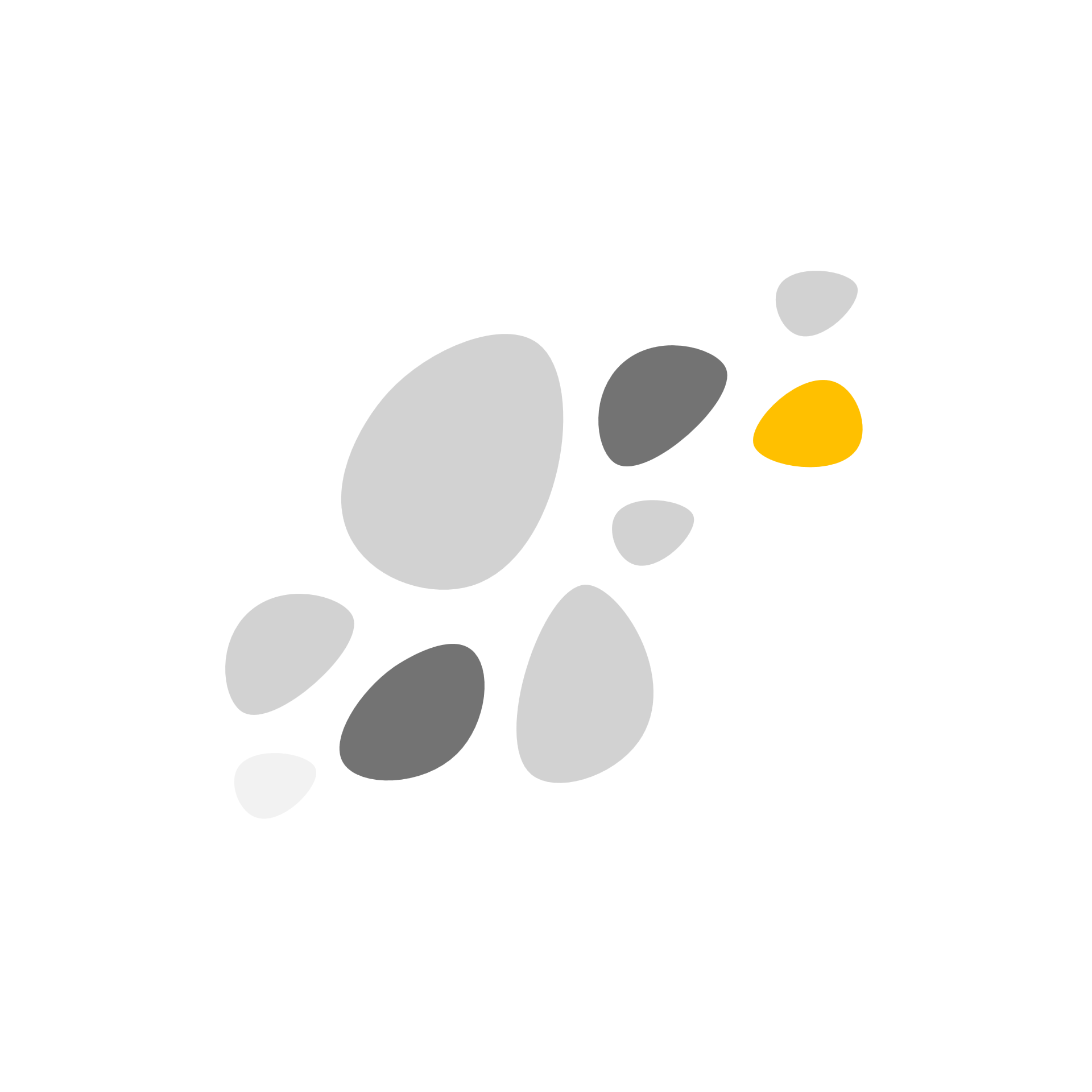
Forman Christian College (A Chartered University)

COMP 220-B: Software Engineering

[Saba](http://tmoodle.fccollege.edu.pk/moodle/user/view.php?id=10506&course=1) Toor

Assignment Due Date: 12/06/2023



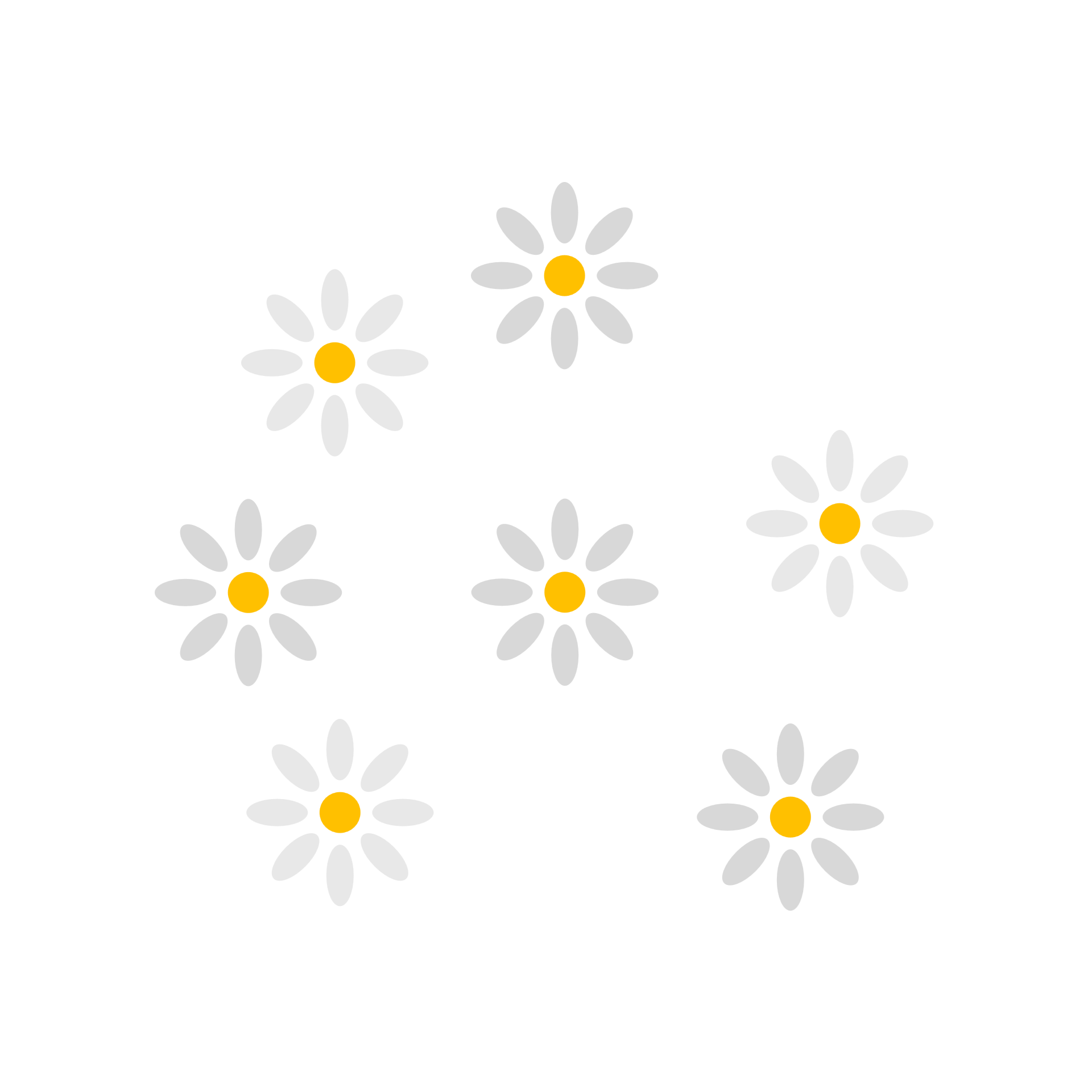
**Test cases**

**Scenario:**

"An unattended petrol (gas) pump system that includes a credit card reader. The customer swipes the card through the reader, then specifies the amount of fuel required. The fuel is delivered, and the customer’s account debited.”

**Test Case1:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test Case ID:** 001 | | | | | | |
| **Test Case Name/Description:** Swipe credit card | | | | | | |
| **Test Case Priority:** High | | | | | | |
| **Test Case Pre-requisite:** The credit card reader is in working condition. The customer's credit card is valid and has sufficient funds. | | | | | | |
| **Test Case Post-requisite:**  The customer's account is debited for the correct amount and the specified amount of fuel is dispensed. | | | | | | |
| **Sr. No.** | **Action** | **Input** | **Expected output** | **Actual output** | **Result** | **Comment** |
|  | The customer swipes their credit card through the reader. | Valid credit card information | Credit card is successfully read and validated | Credit card is successfully read and validated | Fuel is dispensed | The system verifies the validity of the credit card. |

**Test Case2:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test Case ID:** 002 | | | | | | |
| **Test Case Name/Description:** Fuel Shortage | | | | | | |
| **Test Case Priority:**  High | | | | | | |
| **Test Case Pre-requisite:** The petrol pump system is powered on and functioning correctly. The credit card reader is in working condition. The customer's credit card is valid and has sufficient funds. | | | | | | |
| **Test Case Post-requisite:** The system handles a scenario where there is a shortage of fuel and provides an appropriate error message without debiting the customer's account or dispensing fuel. | | | | | | |
| **Sr. No.** | **Action** | **Input** | **Expected output** | **Actual output** | **Result** | **Comment** |
| 1 | The system checks the availability of fuel in the reservoir. | The customer specifies the amount of fuel required. | Fuel shortage is detected | Error message about fuel shortage is displayed | Fuel dispenser remains inactive, and no fuel is dispensed | Customer's account is not debited |