

Reg. # 2019-CE-152 Section CName FARMAN UL HAQDepartment: **Computer Engineering**Program: **BS (CE)**

	Announced date: 24-5-2022	Due Date: 17-6-2022	Total Marks = 2
	Teacher Name: Saba Ahsan		Marks Obtained =

Complex Engineering Problem					
Sr. No	Course Learning Outcomes	Blooms Taxonomy	PLOs	Knowledge Profile	Complex Problem Solving
CLO_3	Analyze distributed computing systems and technologies based on various parameters	C4 (Analyzing)	PLO_2 Problem Analysis	WK8: Research Literature	WP1: Depth of knowledge required WP3: Depth of analysis required

Question 1

A newly opened shopping mall in Karachi is going to introduce cashless money transfer system in all of its outlets. **Analyze**, how IoT, RFID, QR code or NFC will contribute in this new payment system.

The report must contain the following information:

- **Introduction:**

Fingerprint and facial recognition software, as well as QR codes and RFID tags, are now used to transfer money. All of your money is in one location, and we can simply transfer money without using currency thanks to RFID, QR codes, NFC, and IoT.

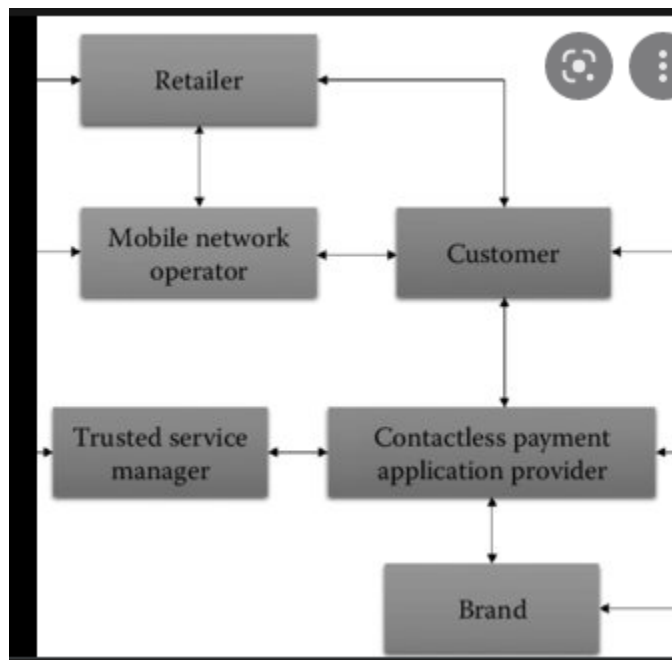
Many contactless payment gadgets are available today that use IoT, RFID, QR codes, and NFC technology. Smartphones and smartwatches are two of the most common devices utilised for payment settlement. To access mobile wallets like Google Pay, these smart

devices use facial and fingerprint recognition. Digital payments have changed the way businesses and consumers receive and make payments, which is why we've implemented a cashless payment system.

- **Terms and Definition:**

Cashless payments, in part, refer to any value exchange that does not require actual physical currency. A cashless payment system works without the intervention of a bank or another payment provider. Instead, end users join a payment system directly

- **Product Flow/Block Diagram:**



- **User Experience:**

People are becoming more comfortable with cashless purchases since they do not need to hold cash, are not concerned about snatching, and, most importantly, are not concerned about cash counters.