



DESIGN OF NFC READER FOR ENHANCEMENT OF MOBILE PAYMENTS

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Abstract- The NFC concept was mainly based on RFID tags which has the frequency range of 13.56MHz. NFC concept was initially determined to exchange data between two devices at very short distance. RFID uses electromagnetic fields to automatically identify and trace tags attached to objects which contain electronically stored information. The major problem with the RFID tags was their cost and the RFID tags had the possibility to be interfered with metals and liquids when we try to read them. There is a possibility of unauthorized reading of passports and credit cards. NFC readers are more secure and hence the NFC enabled credit cards are much safer than a credit card with magnetic strip. We specially use PIC16F877A for the purpose of matching the details in mobile phone with the information in the NFC reader that are required to make mobile payments.

Index terms: Radio Frequency Identification, Near Field Communication, PIC16F877A.