

Card CashTM

A Card Based Digital Monetary System

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CSE316

Microprocessors, Microcontrollers, and Embedded Systems Sessional
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Existing Systems

A list of existing card systems in the economy:

- Credit card
- Debit card
- Prepaid card

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Our project will create a new idea in transactions using prepaid cards which will be available to all... The Card CashTM System

Comparisons Between Existing Systems & Our System

	Credit Card	Prepaid Card	Debit Card	Card Cash TM
Is a bank account needed to use the card?	Yes	No	Yes	No
Can you store money in it?	No	Yes	Yes	Yes
Where can the card be availed from?	Bank	Bank	Bank	Any nearby store
Need paperworks to store money?	Can't store money anyway	Yes	No	No
Where can you draw hard cash from?	ATM	ATM or any store or bank	ATM or bank	ATM or any store or bank

Three Steps to Use Cash CardTM

Three simple steps to use the card-



Buy the card from a nearby store using your NID.

Three Steps to Use Cash Card™

Three simple steps to use the card-



Buy the card from a nearby store using your NID.



Load Money into your card from a nearby shop or market.

Three Steps to Use Cash Card™

Three simple steps to use the card-



Buy the card from a nearby store using your NID.



Load Money into your card from a nearby shop or market.



Use Cash Card™ to buy anything from a shop.

Avoid complications

You do not need to-



Go to an ATM booth

Avoid complications

You do not need to-



Go to an ATM booth



Go to the bank

Proposed hardwares

Proposed hardwares for implementing the reading device-

Proposed hardwares

To read data from the card

RFID:

MFRC-522 RFID Module



Proposed hardwares

Central processing device

Microcontroller:
ATmega32A

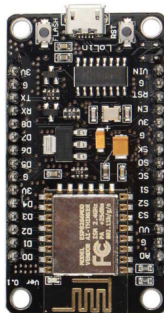


Proposed hardwares

For communication with the server using the local network

WiFi:

ESP8266 NodeMCU V2 Development Board



Proposed hardwares

Input Device

Matrix Keypad 4x4



Output Device

16x2 LCD module



Proposed Softwares

Proposed softwares for implementing the server-

Proposed Softwares

For storage of data

MySQL/ Django database



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For storage of data

MySQL/ Django database



django

Proposed Softwares

Main server

Apache/ Django



Proposed Softwares

Main server

Apache/ Django



django

Overview of the project Card CashTM

