

C618156 : MAJOR COMPUTER SCIENCE
KEY WORD: IDENTIFICATION CARD / MEMBER / SMART CARD

ARNUPARB RUNGSAWANG : DESIGN OF IDENTIFICATION CARDS FOR MEMBERS OF THE CHULALONGKORN UNIVERSITY SAVINGS COOPERATIVE, LIMITED, USING THE SMART CARD SYSTEM.

THESIS ADVISOR : Associate Professor Sawat Saengbangpla, Ph.D. 109 pp.
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The objective of this thesis is to analyze and design identification cards for the members of Savings Cooperative using the smart card system. With their identification cards, members will be able to do deposit/withdrawal transactions from the Savings Cooperatives' accounting system. More over, an identification card can be used as an electronic purse which allows its owner to purchase goods and services from shops. The cards also allow members to make enquiries to their information stored in the cards.

The smart card with 1 kilobyte memory microprocessor has been used as the prototype, and the data of Chulalongkorn University Savings Cooperative Limited, as the case study.

It has been found that, besides being an identity document, the card can be used in deposit and withdrawal transactions with no written slips required. Similar to cash, the card also facilitate the members for the payment of their goods and services and can be increased its value when the fund in the cards is used up.

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