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AND NETURAL RESOURCE M.S.c. (TECHNOLOGY OF
INFORMATION SYSTEM MANAGEMENT)

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WITOON PRANGCHAN : THE DEVELOPMENT OF A FOOD SANITATION
MANAGEMENT INFORMATION SYSTEM : A CASE STUDY OF NONTABURI
MUNICIPAL OFFICE. THESIS ADVISORS : SARANYA SUCHARITAKUL, M.S.,
AUEMPHRON MUTCHCHIWONG, M.Sc., THANACHEEP PERATHORNICH, M.Sc., 216 P.
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The Food Sanitation Management Information System (FSMIS) was developed by
The Division of Food Sanitation, Department of Health. This system is operated on MS DOS
software, supports local office implementation of food sanitation. A review of Nonthaburi
Municipality found that the previous had problems of data management, data processing, user
interface and slow system performance. In this study, a new information system was developed.
A System development process was used to study working conditions, system analysis and
design. A Database management system and user interface were programmed by Microsoft
Access 97 and operated on Microsoft Windows. This program was evaluated of system by Cost-
Effectiveness Analysis. A Sample of 4 officers was selected to use this program. Data concerning
the new information system efficiency compared to the previous system by measured time
performance and user opinion was collected. The hypothesis was tested by average time of
performance (T-test) at a level of significance of 0.05

Results of the research found that the new system take less average time than the
previous system concerning data input, data retrieval, data update and report print-out time.
User's opinions agree with the new system about convenience and producing required reports.
The new information was system efficient enough to utilize in food sanitation work.