

C618358 : MAJOR COMPUTER SCIENCE

KEY WORD: PROTOTYPE / 3-DIMENSIONAL MODEL / BANGKOK METROPOLITAN

PRASOPSOOK PIMPAGOVIT : DESIGN AND DEVELOPMENT OF THE PROTOTYPE
OF A 3-DIMENSIONAL MODEL OF THE BANGKOK METROPOLITAN AREA

ADVISOR : ASST. PROF. THANAWAN CHANTARATANAPIBUL, 103 pp.

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The objectives of this research is to design and develop the prototype of a 3-dimensional model of Bangkok Metropolitan area based on the data from database of Bangkok Land Information System Project (BLIS) and Management Information Project of Bangkok Metropolitan Administration (MIS).

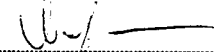
The researcher designed and developed the prototype by designed the processes, studied and designed the files and designed the screens. The prototype is divided into 3 parts including ARC/INFO interface part, ORACLE interface part and AutoCAD interface part. The researcher selected computer hardware and software tools for development of the prototype by use the sample data in 10 square kilometers area of the Klong Toei district. The researcher studied the requirements of the City Planning and Developing Division's users, the database structure and utilization of data of BLIS and MIS project. The prototype received requirement from user and used this requirement to select the data from 1 : 1,000 digital map of BLIS project's database and select number of floor of the building in that area from MIS project's database to create 3-dimensional model of required area.

The result of this research archived the requirement of the City Planning and Developing Division's users by create 3-dimensional model of required area that was the important decision information for zoning of Bangkok Metropolitan area. The prototype can produce 3-dimensional model with efficiency process that gain less budget, man power and time than manual process, and improves existing BMA's information system utilization.

ภาควิชา.....วิศวกรรมคอมพิวเตอร์.....

สาขาวิชา.....วิทยาศาสตร์คอมพิวเตอร์.....

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