

## **ABSTACT**

*Bappenas as the planners institutions based on Presidential Decree No. 5 of 2002 concerning Amendment to Decree of the President About the Presidential Decree Number 110 Year 2001 About the Organization Unit and Duty of Echelon I in the Ministry / Agency and the Ministerial Decree of State Minister VAT Number KEP.050/M.PPN/03/2002 Duty and Function of the State Minister / Head of Bappenas otherwise concerned with data and information that are important and need to get attention, especially in planning and formulation of government policy.*

*The Transaction in database could be viewed as a collection of read and write operation that manipulate the data. The read operation are retrieves the data where as the write operation are carried out the change of data.*

*The database could be viewed as a data collection where the user could carry out the read and write operations. For the database with single user, the user could carry out the transaction that manipulates the database freely without having the disturbance from other user. However in the database with multiuser, the transaction could be execution simultanneously.*

*The multiuser database could produce a transaction's conflict. Two transaction are conflict if one of the operation access the same data item and at least one of these operation are the write operation.*

*To overcome this matter it needs a concurrency control mechanism that perform a role in arranging the coming transaction simultaneously therefore the database preserved consistent.*

*By the way the system has been developed, the authors tried to give recommendations based on test results that have been done is to provide limits on the number of users, split time zones in the use of web applications and improve infrastructure that can support access to the internet network.*