

ABSTRACT

To respond for government of west java preparation to go as "Jabar Cyber Province" in 2012, IT Telkom cooperating with Indonesian Republic Department of Industry have built Bandung Techno Park (BTP). Bandung Techno Park is opened for public such as scholar, researcher and entrepreneur. In condition, BTP consist of spacious area and many of rooms, that's why visitor cards are needed. Every Visitor who visit BTP are divided into some categories based on who they are and each of them have the different kind of access. This method is used to help BTP's attendant look after the visitor position who enter the area of BTP.

RFID is a technology that utilizes radio frequency to make automatic identification into object or human. Visitor card based on RFID can be an identity card for every visitor. Every Visitor who get in and out the room of BTP have to do visitor card scanning into RFID reader device. Visitor Smart card application based on RFID for BTP that created on this project is an application to read the visitor card and process some data which managed to read by RFID reader. All of the data are saved into the database. Finally, all of the information can be used to make an access limitation, search for visitor location and noted the report of visitor who get in and out. This application was made utilize Visual Basic 6.0 and the database was designed utilize Microsoft Access 2007.

From this final project can be concluded that the making of prototype system visitor card based on RFID for BTP, access limitation application for BTP visitors, and searching application for BTP visitors are successfully made. The maximum reading distance of visitor card reader is 5.5 cm with a range angle reading distance of 0°-50°. The number of database affect the speed of visitors search applications.

Key Word : RFID, Bandung Techno Park, Visitor Card, Visual Basic6.0