

## **ABSTRACT**

Information technology has a significant role in the education sector. Information system in schools has an important role in building a positive partnership between parents and school, as well as contributing into the management of the school. However the development of information technologies increased complexity and costs of the infrastructure. The high cost of purchasing infrastructure for information systems constitutes a problem facing schools with limited budget. The major aim in this thesis is to establish a channel of communication for school members by developing an Android mobile application for school information system using cloud computing. The developed system provides services for school, students, and parents by making communication among school (teacher), parent and student easier, and the user can get the information needed from school without formal request. The services provided in the system are: Manage user account, manage classes, manage courses, classes search, search, password, academic calendar, attendance, behavior incidents, grades, info, login history, news, private messages, photos, schedule.

The system consist of two parts such as server and client. The main purpose of the server is to manage the connection between the mobile application and the database. The client is the application on Android mobile phone. There are four types of users with different privileges: Administrator (have full authority), teachers (can perform student related tasks), students (only view their own data), parents (only view their child's data). In this application Java programming language is used together with PHP Web Application language in order to write the server part of the system. The SQL database language was used to retrieve data from MYSQL Server Database.

The developed school information system is helpful to families such that the families can get information about the status and development of their children from anywhere and at any time of the day. At the same time, the students and parents can see the school news easily and instantly. The developed system offers set of features to help the school in managing the information system and building a positive partnership with parents. The application increases the level of communication with the parents, and such features enable parents to follow school activities, monitor their child's behavior, verify possible absences, learn the grades etc. with the help of a mobile device anytime and anywhere. The

developed system relies on cloud computing that provides a good opportunity for schools with limited budgets to use the application.

**Keywords:** School information system, mobile application, mobile cloud, communication, school management