# ABSTRACT

Utilization of Web-based Online Registration System in Senior High School for new student enrollment in high school can be a solution to create a new admissions process easier and more practical especially in the era of Internet development and information technology. But in some cases the application of this system makes the admission of new students become harder. Therefore in this final project to test the level of effectiveness of online registration system at the high school by creating Application Registration System New Student Entrance Exam Web-based case study in SMA N 1 Wonosari Klaten. This application is created using HTML, CSS, PHP and MySQL database are uploaded to the web hosting HostGator Baby Plan.

All of processes in this application include the generated PIN code, encryption for data security, database input process via the online form, print a test card and electronic displays test scores and graduation status. Additional features in this application is using LiveZilla Live Support service which allows students to ask directly to the admin, and a simple question and answer forum using FlatForum.

The parameters tested in this final project is a path system, web interface and loading time. To analyze the three parameters were performed using a software simulation of a virtual user's Webserver Stress Tool. The result of the software analysis proven directly on the Computer Laboratory Wonosari SMA N 1 Klaten. With the help of students SMA Wonosari N 1 Klaten to perform direct simulation and fill out a questionnaire. The results of software testing and practice on the ground the conclusion of this application is running properly on Firefox version 3.6 web server with a maximum capacity is 5 users online simultaneously.

**Keywords :** *Registrasi Online, HTML, CSS, PHP, MySQL*