

ABSTRACT

Additional tutoring is one of the needs of students to deepen the material because learning at school alone is felt to be lacking, especially for elementary and junior high school students. However, currently, many tutors apply a subject package system that sometimes students don't need but have to take all the subjects in the study package. In addition, many tutors are less flexible because the schedule, place of study, and the number of students cannot be fully determined by the students.

So a mobile application for ordering tutoring based on the Global Positioning System (GPS) was made which can be done face-to-face by prioritizing all student needs and can be used once. The solution is implemented in the design of the User Interface (UI) and User Experience (UX) through the User-Centered Design (UCD) approach to create applications that meet the needs and have good interface quality. The research process begins with user research through competitor research, questionnaires, and interviews. Then the user needs analysis is carried out to determine the required features and make a system design. Then proceed with the design stage from low fidelity in the form of wireframes to high fidelity in the form of mockups and prototypes.

The results of the design and application design are in the form of prototypes that are tested on users of elementary and junior high school students to the evaluation stage using the Usability testing (UT) and System Usability Scale (SUS) methods with the final score of testing the EduAlecta application prototype for students 80.5 in the first test and the second test 93. So that it falls into the category of very good UI and UX.

Keywords: *system usability scale, usability testing, user-centered design.*