

## ABSTRACT

Sterior AR is an AR-based object and space scanner application as a tool for the interior design process. This application aims to help interior designers to do basic work faster when designing a room and also presenting the results of interior design. In addition, this application is also made so that users are more educated about interior design, because in this application there are several 3D objects that have been categorized according to the theme of the object category, so that users can better understand the themes in interior design.

This system can be used only by using a smartphone that supports *ARCore/ARKit*. The system design will be built on the Sterior AR application in which the user can select several menus, a menu for placing 3D objects, a menu for measuring the room, a menu for entering 3D objects from the user's smartphone and a help menu. In the menu to put 3D objects, users can try to put 3D furnitur objects. In the menu to measure, the user can measure a room. In the menu enter 3D objects from the smartphone. Meanwhile, if the user selects a further menu, the application will display information about how to use the Sterior AR.

**Keyword :** *Design interior, ARCore, ARKit, Augmented Reality*