

ABSTRACT

Voice intercom naval system software is the design and implementation of a naval communication system. The system is designed using digital audio technology with a flexible Ethernet network backbone to configure and integrate with other sub-systems. The voice intercom naval system software that is installed on naval devices has several shortcomings, including bug problems because it uses standard desktop Linux system drivers. As a result, the system becomes heavy and takes up a lot of resources, which results in decreased boot time performance.

To overcome this problem, in this final project a voice intercom naval system user interface design has been created using the light and versatile embedded graphics library (LVGL) user interface and squareline studio tools. This user interface design process focuses on the use of widgets and user interface controls that previously existed in the form of the Figma user interface design. The results of this user interface design will be used as part of the naval voice intercom system software upgrade process, with the aim of improving the system and having a responsive appearance.

The results of user interface testing which have been carried out functional tests and subjective tests have obtained results based on a survey of 11 respondents who are working practitioners at PT. Len Industri, from the tests that have been carried out, the results were 72.7% agree and 46.2% strongly agree. By designing a User Interface, making calls can be made easier and faster.

Keywords: *Software Voice Intercom Naval System, bug, Performance Booting Time, Design User Interface, Tools Squareline Studio*