

**ABSTRACT**

*Diseases of rice plants often cause the growth of rice plants to be disrupted and make rice production fail. The emergence of disease in rice comes from bacteria, fungi, viruses, and besides that, lack of nutrients is also a disease. Diseases in rice plants also have a great influence on plant growth, for example plants turn stunted and change color, such as yellowing or drying of leaves, and can cause plants to die <sup>[1]</sup>. For the dataset we use image augmentation to increase the variation in the dataset, in the android section we have used the retrofit library to call the API, we also used CameraX to perform a scan function on rice plants. And for database creation using firebase firestore service and database management. Creation of a private API that can connect Android to the database using one of the firebase services.*

**Keywords: Rice, Disease, Image Augmentation, Library Retrofit, CameraX, Firestore**