

## **ABSTRACT**

*In various monetary and monetary economic literature we find many definitions or limits about money. Regardless of the pros and cons or differences of opinion about what is money then the most important thing here is we can have a picture or grip what money is in the real sense, and how the classical functions of money, what is the role in this modern and open economy. As found by various experts who said money is 1) Everything that is generally accepted as a means of payment for goods; 2) Anything generally accepted to pay the debt; 3) Anything generally accepted to be used as a medium of exchange; 4) Wealth by which the owner can pay off a certain amount of debt at that time.*

*In this Riyal money identification application before being able to perform pattern recognition process, we must take image file using camera based android smartphone, after that we use the process with feature matching method with Speed-Up Robust Feature SURF algortima to match the captured image and template image. Homography process to improve the results of currency recognition to filter results from feature matching.*

*Through the application of currency identification Riyal this user as the owner of money Riyal can find out to the origin of the money he had. With an easy tool just using the camera from the smartphone user can already know the authenticity and nominal of the currency of his Riyal it.*

**Keyword:** SURF, Feature Matching.