

## ABSTRACT

*Penerimaan Peserta Didik Baru (PPDB)* is a method applied by Diknas Kota Malang in determining the prospective learners who will be accepted at the desired school. There are 4 methods specified in the PPDB, that is method through the citizen partners / residents, regular track, achievement path, bidikmisi path and inclusion path. One of the favorite choices of high school in Malang is SMA 3.

In this final project will be made an application to predict whether prospective learners have the opportunity to be accepted in SMA 3 by linear regression method. So that the decision can be taken to determine one of the methods provided. And also immediately switch to another method in case the opportunity to enter the method is small. Predictive service is provided in web format so it can be accessed via *smartphone* or *laptop*.

This study produces the test results by calculating that the Linear Regression algorithm gets the coefficient of determination with a value of 84.95% which means the ability of the independent variable in explaining the variance of the dependent variable is 84.95%.

Keyword : Diknas, PPDB, Prediction, Linear Regression, SMA 3.