The usage of wireless computer network and mobile personal communication systems has been increasing nowadays. Related to that, end communication units, which can work in several frequency bands, are required. In this study, we examined the patch antenna, which is a model of the microstrip antennas that are widely using in microwave antennas by the recent technological advancements. The main purpose of this study is to design a microstrip patch antenna which will be used as an end-unit element in systems, which are slotted in fractal structure, and able to work in several frequency bands just as 2450 MHz-5800 MHz's. The study of original antenna design and the results of computer simulation are presented. The S11 parameters of the detracted rectangular antenna are -21 dB in 2.45 GHz and -14.9 dB in 5.8 GHz. The bandwidth is 40 MHz in 2.45 GHz and 710 MHz in 5.8 GHz.