

## ABSTRACT

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*Schole Fitrah is a parenting learning platform with the theme of nature that presents experienced speakers in their fields. In supporting the development of Schole Fitrah for the dissemination of information, a Learning Management System feature is needed which is expected to meet the need for learning media, make it easier for customers to access learning, and become a brand for Schole Fitrah. In addition, to support the Schole Fitrah branding, Schole Fitrah initiated the manufacture of hydroponics as a natural-based learning medium. Conventional hydroponics requires time and effort to handle, to facilitate the process requires technological assistance. One method of planting with the help of technology is NFT (Nutrient Film Technique) hydroponics. In this study, the author will build a system for monitoring and controlling plant growth by reading the values and data from each sensor that will be stored in the database. The test results have an error percentage of 3.88% of the set value. The work on the Schole Fitrah site and smart nutritional hydroponics use the Modified Waterfall method. Modified Waterfall is a method of working on a project using a sequential or linear system.*

*Keywords: Site, Learning Management System, Hydroponics, Nutrient Film Technique, Nutrient*