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(57) Abstract :
A projection-based ichthyology learning assistive device includes an extendable body 1 installed a display panel 3 for allowing user to select a fish about which user desires to study upon which a microcontroller linked with panel 3 activates an imaging module 4 integrated with a LIDAR sensor for detecting height of user on and based upon height, microcontroller actuates body 1 to extend/retract to position a chamber 2 as per user's height, a database linked with microcontroller via a communication module to fetch characteristics of user-selected fish, an electronic nozzle 5 for filling a pre-defined quantity of water in chamber 2, an extendable tray 7 extends for allowing a holographic projection unit 8 to project a virtual projection of user-selected fish over tray 7, as per fish's characteristics, multiple colored LEDs 9 for illuminating colored light in chamber 2 to provide an ambience to user as per fetched characteristics.

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