

**FISH INFORMATICS: A MOBILE APPLICATION
ON FRESHWATER FISHES**

THESIS

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An Undergraduate Thesis
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ABSTRACT

PERIDO, MARVIN A. and FELIZARDO JENNIFER JOY L. Fish Informatics: A Mobile Application on Freshwater Fishes for Fish keepers. An Undergraduate Thesis. Bachelor of Science in Information Technology, Cavite State University, Indang, Cavite April 2017. Adviser: Ms. Vanessa G. Coronado

The Fish Informatics: A mobile application on freshwater fishes for the fish keepers serves as a guide to choose the right of fish for them for an easier way of access. The system provides an aid for the fish keepers in searching and viewing of freshwater fishes. The developed system provided an opportunity for the fish keepers to lessen human effort as it solves some of the difficulties on searching freshwater fishes information.

The methodology that was used and followed in the study was Lean start up methodology. The six (6) processes included are: Requirements Analysis (Learn), Planning (Ideas), Design (Build), Development (Code), Testing (Measure), Deployment (Data). The materials that were used in the study are Adobe Photoshop CS6 and Logopit Plus for graphic design and user interface, shared preferences as a database and Android Studio for coding, Microsoft Visual Code for debugging, Ionic for emulating the application and Java as the scripting language.

Hundred ten (110) technical and non-technical respondents participated to check the developed system's accuracy. The system was evaluated by the participants based on functionality, reliability, usability, efficiency, maintainability, portability, and user-friendliness. The results of the evaluation showed that the system was functioning well and was able to meet the business requirements of the intended users.

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INTRODUCTION

According to Li (2012), mobile phone is the first in the list of useful gadgets. Mobile phones are not just for communication: mobile phones are mostly use for gaming, entertainment and educational purpose, Adults, even their child, know how to use it. Moreover, the generation today is in the line with high technology.

Mobile Application provides the bridge between phone and user via which they can use the various features of the device. Mobile Apps are interface, which helps the user, to make the optimum utilization of the powerful mobile devices which they own or they wish to own. This rapid change has made a huge space for mobile application development as these mobile applications have changed the way humans connect and live by simplifying the platform they use to perform many activities (Stratoshear, 2012).

Hence, a common misconception is that fish are lot of work, and since they are not furry or cuddly many people do not consider them an appropriate pet. An Aquarium filled with brightly colored fish can cheer up and help brighten the day. Before they know they will find it fascinating, and have hard time taking their eyes off the fish. Freshwater fish require little maintenance and upkeep, and can really make a positive difference in