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## **Whale and Dolphin Species Detection**

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## **ABSTRACT**

Whale and dolphin watching is a popular recreational activity in Sri Lanka. However, the approach that is currently in use by the whale and dolphin watching guides is a very primitive one which involves simply using a combination of experience and pure luck. This is highly disadvantageous as it is not a consistent approach by any means and as a result, is certainly far from being the most efficient. There have not been any approaches to develop a system to aid the guides of the whale and dolphin industry in Sri Lanka, in detecting the location of the whales and dolphins accurately. This brings up the problem of a potential wastage of both time as well as fuel and a possible decline of future customers. This work focuses on the development of a system that has the capability to store whale and dolphin images, manage and update them. The design, development and evaluation of the mentioned system are addressed in this document.

**Keywords:** Whale and Dolphin Watching, Image Processing, Angular, NodeJS