**PROJECT SYNOPSIS**

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| DEPARTMENT | Computer Science and Engineering | | | |
| TITLE OF THE PROJECT | Bird Species Encyclopedia | | | |
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| PROJECT TIMELINE  (Tentative Start date- End Date) | February 2018 to May 2018 | | | |
| PROJECT GUIDE | Prof. Tajuddin | | | |
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| PROJECT - Domain | (AI/ML/CN/Cloud/Cybersecurity/Image Processing/Computer Vision/IOT/Others) | | | |
| Introduction | In today’s world, there are multiple species of animals, birds, etc, that are being recorded and since our world has reached the stage where everything can be found by a small device that fits into our pockets why not being able to find the information of an given bird species in our fingertips. A consolidated database which can be used from any location with a stable internet connection will be much better to use than having to search multiple sources to find one inquiry. This will reduce efforts of wildlife enthusiasts having to search multiple websites to find one query. A consolidated encyclopedia will make their lives easier as well. | | | |
| Application/s | React native, Firebase, REST API | | | |
| PROJECT Problem STATEMENT | Our project aims to reduce the effort of wildlife enthusiasts, who would prefer to have a consolidated encyclopedia rather than having to go through the pains of browsing through multiple websites. | | | |
| OBJECTIVEs OF THE PROJECT | * Reduce efforts of wildlife enthusiasts. * Create a consolidated encyclopedia. * Use Firebase with the REST API. | | | |
| Proposed Solution | The strategy is to use React native with Firebase as the database creator to create a consolidated database which is the bird species encyclopedia. | | | |
| PlaTform that will be used for implementation  (Name the hardware and Software tools and Development Environment  that you will be using for implementation) | HW: Laptops | | | |
| Programming Language:  React native | | | |
| Front End/Back End Tools – React native, Firebase Database | | | |
| The Firebase Real-time Database is a cloud-hosted database. Data is stored as JSON and synchronized in real-time to every connected client. When you build cross-platform apps with our iOS, Android, and JavaScript SDKs, all of your clients share one Real-time Database instance and automatically receive updates with the newest data. | | | |
| Demonstration Details | By using Firebase and the REST API with React native, we will be able to create a functioning application that runs in real-time. It will be displayed as an app using React native with the REST API and Firebase connectivity. | | | |
| Are THERE any standard datasets available | No | | | |
| Project RISKS (if any) |  | | | |
| References | [1] https://firebase.google.com/docs/  [2] https://facebook.github.io/react-native/docs/getting-started.html  [3] https://idratherbewriting.com/learnapidoc/  [4] | | | |