PLAGIARISM SCAN REPORT

Words	875	Date	June 09,2020
Characters	5386	Exclude Url	

2% Plagiarism	**98%** Unique	**1** Plagiarized Sentences	**39** Unique Sentences

Content Checked For Plagiarism

Database is an important part of any application as it collects data from user and application to be used into application. We have to host data for our application which we has been sourced from various organization and we have used in our app for efficient quering purposes, but it's in form of archived data i.e. millions of records that are not categorized for our needs so we need a service which is flexible in handling data and be merged together without hassle of making SQL relations therefore we will use MongoDB as Database Solution as its effective in handling different field of entries which can be dynamic and easily queried. For authentication purpose we will use Firebase from Google as a solution due it being service from a large company and can be used for free as we are only going to store data related to user which is sensitive and have to be kept secure, doing custom implementation of such feature may provide some security vulnerability. Firebase provide secure authentication services, validation, and other services which are crucial to the application thus providing an abstraction in such features and services, It also provides with Oauth function service which is standard for sharing user credentials of a already established webapps like google, facebook, twitter, github, & etc., would also be provided. 3.5 Web App – project birdie website Angular is an application design framework and development platform for creating efficient and sophisticated single-page apps, our application is a WebGL based project with requires a very complex interactive UI elements which need to react to changes in a canvas rendered and from UI to canvas to streamline this process of communication we decided to use it for our applications. Angular framework has set of all tools and methods to make our application smooth as possible with getting data from server, communicating changes back and fourth to Explore Component and UI which are coupled with help of services from angular, the core features of angular can be classified as follows Our project consist of Module level separations i.e. • Authentication Module • Core Module • Contribute Moudle • Explore Module • Shared Module • Watchlist Module Each Module may consist of various modules type of components in our web app like core module contains components related to core website i.e. header, footer, navigation, etc., and much more explained further. Service are essential part of the webapp as they couple the modules with each other by providing data required to it and components of module react to changes in the data provided by the services, classification of services is done in following manner 1. Engine Service – Will manage the rendering of the canvas and all the methods related to 3D Rendering. 2. Explore Service – has all methods and data to manipulate canvas from UI Components. 3. Auth Service – This will handle all the necessary data to authenticate user from firebase and keep his session maintained. 4. Data Service – This will get the data from the backend API and send data to it when deemed necessary. 5. Data Bus – the service which will be used to manipulate UI components. Using Angular we can modularize the code into components so that they are easy to implement and handle in the application. Authentication Module – Includes • Login Component • Register Component • Forgot Component • Verify Component • Auth Service • ValidEmail Directive • ValidPassword Directive Core Module – Includes • Header Component • Navigation Component • Footer Component • Profile Component • DataBus Service • And many more ease of use Directives Contribute Module – Includes • Observation Component • Article Component Explore Module – Includes • Explore Component • Ave Component • Observation Component • Search Component • User Component • InfoPanel Component • Explore Service • Engine Service • Ease of use Directives Shared Module – Includes third party Components, Directives. Watch List Module – Includes • Bird Component • Gallery Component • List Component • Info Panel Component 3.6 Reward System This is a manually manged accounts on twitter and instagram which will be showcasing prominent photos taken by the users and featuring them on page. The application can be used by people to visualize the data about birds in a 3d interactive manner, where users can search for following terms ◦ Aves – any bird whose identification has some scientific knowledge and a depth associated ◦ Observation – all the past observations contributed on the Inaturalist Network and the user submission on the app. ◦ Users – any verified users whose profile is public on Inaturalist Network and users of app. • Users can register for the application and generate a watchlist that is tailored to