

Dog Adoption Platform

Completion

- The API platform contains New User Registration functionality
- The API platform contains User Authentication functionality for existing users
- The API platform contains New Dog Registration functionality
- The API platform contains Dog Adoption functionality
- The API platform contains Dog Removal functionality
- The API platform contains Dog Listing functionality for Registered Dogs
- The API platform contains Dog Listing functionality for Adopted Dogs
- There is a test folder with test cases for testing API endpoints

Process and Understanding

- The candidate demonstrates the understanding of Data Model Design by:
 - Implementing a MongoDB Atlas cloud database with a design that supports user registration, dog registration and adoption functionalities
 - Ensuring proper relationships and data structures for scalability and efficiency
- The candidate demonstrates the understanding of Database Integration by:
 - Integrating MongoDB Atlas cloud database service with the application seamlessly
- The candidate demonstrates the understanding of Authentication and Authorization by:
 - Implementing user registration functionality with secure password hashing
 - Implementing user authentication using JWT tokens
 - Issuing tokens valid for 24 hours
 - Setting appropriate HTTP headers.
- The candidate demonstrates the understanding of Controller Design by implementing the following functionalities in the API layer in working condition:
 - Enabling new user registrations
 - Enabling registered users to login using valid credentials
 - Enabling authenticated users to register their dogs with name and description
 - Enabling authenticated users to adopt dogs by ID, including handling restrictions and thank-you messages
 - Enabling authenticated users (dog owners) to remove dogs based on their adoption status and ownership
 - Enabling authenticated users to list their owned dogs with support for filtering and pagination
 - Enabling authenticated users to list their adopted dogs with support for filtering and pagination
- The candidate demonstrates the understanding of JSON Parsing by ensuring that the API can parse JSON payloads for request and response bodies.
- The candidate demonstrates the understanding of MVC architecture pattern by:

- Implementing a logically and contextually distinguishable Model Layer that is concerned with database interactions/operations
 - Implementing a logically and contextually distinguishable Controller Layer that is concerned with routing logics
- The candidate demonstrates the understanding of API Error Handling concepts by:
 - Implementing robust coverage of invalid requests by anticipating and using appropriate error handling scenarios for them
 - Returning appropriate HTTP status codes for errors
- The candidate demonstrates the understanding of API Testing concepts by:
 - Implementing tests cases for validating API across all endpoints using Mocha and Chai libraries

Presentation

- The solution is submitted
- Variable names accurately represent the values they store
- Variable names follow the best practices for the programming language used (camelCase in case of JS)
- Variable names are easy to read and understand
- Comments are present when necessary