Animimic Web project – Release 1

Readme:

We aim to create a website that integrates an animal behaviour simulation, allowing users to explore how animals can act like others in an interactive way. Additionally, the platform will have feature blogs and a discussion forum for knowledge sharing, and discussions around animal behaviour and related topics.

1. Features:

1. Blog for Pet owners to communicate about their pets, pet foods, pet care, etc.

   Users' profiles

   Parents and Kids: Assist children with using the simulation and reading educational content regarding the animals.

   Animal Enthusiasts: Read blogs, participate in forums, and explore the simulation. They can also contribute by uploading any blogs or articles.

   Pet Owners: They can share their personal experiences, stories, and insights about their pets' behaviours through blog posts or forum discussions.

   Casual Visitors: Browse blogs and try out the simulation casually.

2. Animation on one animal behaving like other animal(s).

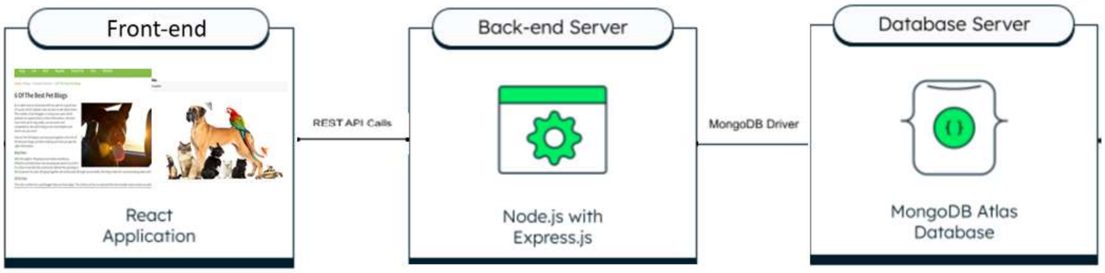
2. Technology stack:

Frontend: Use of frameworks like React.js for a responsive design.

JavaScript libraries like Three.js for simulation of animal behaviour

Backend: Use of servers like Node.js and databases like MongoDB for user data and content management.

Implement 3D animation with Three.js



3. Link to GitHub Repository:

Source codes of Front end for animation is included in the ‘webProject’ folder (https://github.com/Srikrishna-madhusudhanan/Web-Development-Project/tree/main/webProject)

Data base model for pet blog user registration is included in the 'Database' folder for release 1.

(https://github.com/Srikrishna-madhusudhanan/Web-Development-Project/tree/main/Database)

Web project – all documents reference:

https://github.com/Srikrishna-madhusudhanan/Web-Development-Project/tree/main

4. Use case Diagrams:

https://github.com/Srikrishna-madhusudhanan/Web-Development-Project/tree/main/SE/Requirements

5. Database Details

DB & Interface: Mongodb, Node JS/Express JS

User data model for register, login, reset password and update profile details:

```
const userSchema = new mongoose.Schema({
    name: String,
    mobile: String,
    username: {
     type: String,
     //required: true,
     unique: true
    },
    email: {
     type: String,
     //required: true,
     unique: true
    },
            password: String,

            secquestion: String,

            secanswer: String,

            photolink: String

    });
```

4.1 API Details:

4.1.1 For new user registration:

POST https://animimic.onrender.com/api/register

4.1.2 For user login:

POST https://animimic.onrender.com/api/login

Login will be based on username and password. On successful login, a token will be returned to the front-end in API response. The token has to be used in all future API calls except login and register APIs.

4.1.3 For user details update

PUT https://animimic.onrender.com/api/update

Email is mandatory to identify the user in database table. Name, Mobile, Security Question('secquestion') and Security Answer('secanswer') fields can be updated through this update api call.

4.1.4 For user password reset

POST https://animimic.onrender.com/api/reset

The 'secanswer' is mandatory field to validate before updating the new password for the user.

6. Individual Contributions:

CS23B019-Sowmyasri-Login page,forget password page(front end design)

CS23B030-Mandadi Pranathi-Home page(front end design)

CS23B035-Paluvadi Niharika -connected login,register pages to api(backend) and working on profile api.

CS23B048-Indusahiti-Register page,profile management,change password in profile managemnt,navigation btw web pages(front end design)

CS23B055-Dhanya koteswari-3d simulation design,navigation btw web pages.

Srikrishna: REST API creation for pet Blog's login, registration, password reset and user details update in MongoDB.