**SRH PET APPOINTMENT**

**PROBLEM STATEMENT**

To create a Single Page Web Application in order to book an appointment for the pets and display the arrangements with dates.

**FEATURES OF THE APPLICATION**

Name of the Pet, Name of the Owner, Date and Time of the appointment and the description about the disease has to be recorded in order to book an appointment.

The application operates the various CRUD operations:

* User can be able to add the appointments.
* Existing appointments can be revised.
* Appointments can be erased.
* All the appointments can be perceived by the user.
* Appointments can be categorized in ascending or descending order.

**ARCHITECTURE USED**

**MODEL-VIEW-CONTROLLER**

MODEL

Model comprises of the entire data of the application. In our application, we have used MongoDB.

VIEW

View presents the data collected in the model to the user. ReactJS, HTML and CSS has been utilized for developing the UI.

CONTROLLER

It is present between the Model and the View. It functions as a request-response handler of the application. In the application Node.js and Express.js has been used for implementing the Controller.

**ARCHITECTURE**

A screenshot of a cell phone

Description automatically generated

**TECHNOLOGIES USED**

**FRONTEND**

* ReactJS

React can be utilized for Single Page Applications (SPA) and this is the reason we have used React for our project. React uses Virtual DOM which provides better performance as it helps Browser DOM to only execute that part which has altered from previous formation. React is used to generate user interface and it makes a web secure. It creates reusable User Interface (UI) components and conducts the view layer for the web.

**DATABASE**

* MongoDB

It is a NoSQL Database. It can operate large unstructured data and is a cross platform database. MongoDB uses JSON-like documents and therefore, it is used with ReactJS. In this, a single collection can hold various documents. We have used Mongo DB because of its characteristics like Indexing and Replication.

**BACKEND**

* Node.js

We have utilized Node as it is used to run JavaScript on the server. It is used to write server-side scripting. It can be merged with a database that uses JSON format. It creates dynamic web pages and accesses a port on the server.

* Express.js

We used Express as it is a web application framework for Node.js and is easier to create API with the help of the same. Express is a minimal and flexible Node.js web application framework that offers a robust set of characteristics for web and mobile applications.

**ROLES AND RESPONSIBILITIES**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | AAYUSH JAIN | TANAY DALVI | SUNAKSHI JAITLY | YASHWANTH BUDDHA |
| React JS, HTML, CSS |  | ✓ |  |  |
| Node JS, Express JS | ✓ | ✓ | ✓ | ✓ |
| Mongo Database |  |  | ✓ | ✓ |