A PROJECT REPORT
ON
Event Management App
Using
Mern FullStack Development
A Report Submitted

to

IIDT – Blackbuck Engineers Pvt. Ltd

Submitted by:

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Acknowledgement

We extend our heartfelt appreciation to Black Bucks Academy and Kiranmayi Mam for their invaluable training and mentorship in MERN Stack development. Their expertise and guidance have been instrumental in equipping our team with the skills needed to bring project "Event Management App" to life.

We are also deeply thankful to Surendra Naidu Sir, our placement officers, for providing us with the opportunity to undertake this training Your support, dedication to our career growth, and belief in our vision have been crucial in turning this endeavor into a reality.

This project would not have been possible without the knowledge and opportunities provided by Black Bucks Academy, the guidance of Kiranmayi Mam, and the trust and support of Placement Officer . We are sincerely grateful for their contributions to the success of our project on "Event Management App".

ABSTRACT

Introduction: The management of events, whether corporate, social, or community-oriented, is a complex task that requires effective coordination and communication. Traditional methods often fall short due to the lack of real-time information sharing and inefficient tracking systems. This project aims to develop a comprehensive Event Management System that leverages modern technologies to streamline the planning and execution of events, ensuring better organization and higher success rates.

Problem Statement and Overview: The primary challenge in event management lies in coordinating multiple tasks, resources, and stakeholders simultaneously. Existing systems are often fragmented, leading to miscommunication, delays, and resource wastage. The project addresses these issues by creating a centralized platform where all event-related activities can be managed efficiently. The solution focuses on real-time updates, automated task assignments, and seamless communication channels to enhance productivity and reduce the likelihood of errors.

Tools and Applications Used: The project is built using a MERN (MongoDB, Express.js, React, Node.js) stack, which provides a robust and scalable solution for web-based applications. MongoDB serves as the database for storing event-related data, while Express.js and Node.js manage the backend operations. React is employed for developing the user interface, offering a responsive and dynamic experience for users. Additional tools like Redux for state management and Mongoose for MongoDB interactions are also integrated to ensure smooth operations.

Existing System: Current event management solutions typically involve manual processes or disparate tools that do not communicate effectively with one another. These systems lack the ability to provide real-time updates and often require significant manual effort to coordinate tasks. This results in inefficiencies, increased costs, and potential failures in executing events as planned.

Proposed Plan and Architecture: The proposed Event Management System introduces a unified platform where all stakeholders can collaborate seamlessly. The system architecture is designed to handle multiple users with varying roles, ensuring that tasks are assigned and tracked effectively. The platform also includes features such as automated notifications, progress tracking, and resource management to enhance overall efficiency. The use of RESTful APIs ensures smooth communication between the frontend and backend, while the database is structured to optimize data retrieval and storage.

Design or Flow of the Project:

- o Event Creation and Management
- o Task Assignment and Progress Tracking
- o Real-Time Notifications
- o Resource Management
- o Admin Panel for Event Management

Conclusion or Expected Output: The Event Management System is expected to significantly reduce the complexity and inefficiencies associated with traditional event planning methods. By providing a centralized platform with real-time updates and automated processes, the system will enable event managers to coordinate tasks more effectively, reduce costs, and increase the likelihood of successful event execution.

Introduction

In today's fast-paced world, effective event management is crucial for organizations and individuals alike. Whether it's a corporate conference, a wedding, or a community gathering, the ability to plan, organize, and execute events seamlessly can significantly impact success. To address this need, we have developed an Event Management App using the MERN stack, which provides a robust and user-friendly platform for managing events efficiently.

Project Overview

The Event Management App is a full-stack web application that enables users to create, edit, delete, and manage events with ease. Built on the MERN stack, the application leverages the power of MongoDB for data storage, Express.js for server-side logic, React for a dynamic user interface, and Node.js as the runtime environment. This combination allows for a seamless and responsive user experience while ensuring scalability and maintainability.
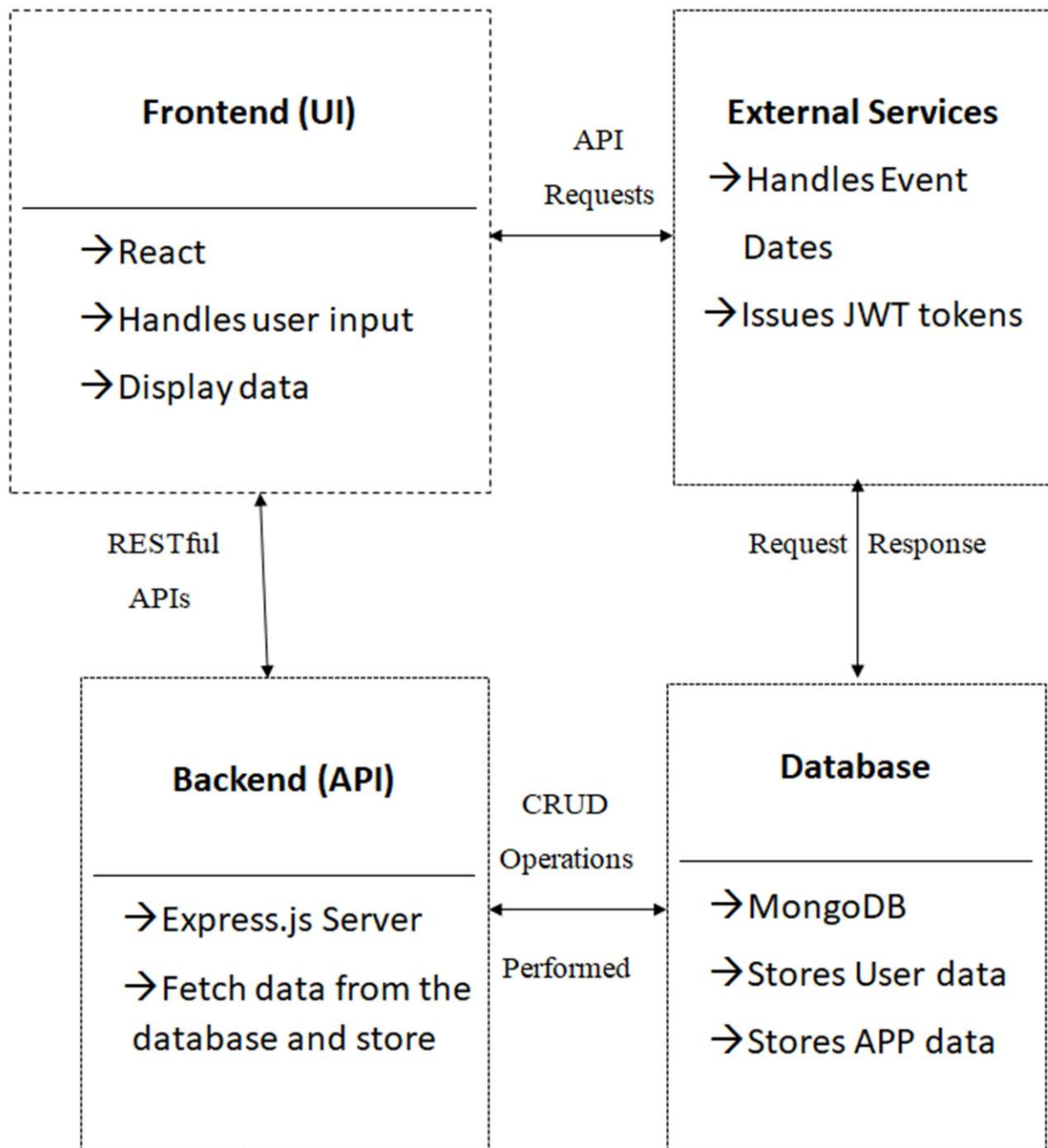
Key Features

- **Event Creation:** Users can easily add new events by filling out a form that captures essential details such as event name, date and reminder settings.

- **Event Management:** The application provides functionalities to view a list of all events, edit event details, and delete events that are no longer needed.

- **Reminder Functionality:** Users can toggle reminders for events, ensuring they never miss important dates or deadlines.

- **Responsive Design:** The app is designed to be responsive and user-friendly, providing an optimal experience across various devices, including desktops, tablets, and smartphones.

- **Real-time Data Handling:** Utilizing Axios for API requests, the app fetches and updates event data in real-time, providing users with the most current information without the need for page reloads.

Technology Stack

- **MongoDB:** A NoSQL database that stores event data in a flexible, JSON-like format, allowing for easy retrieval and manipulation.

- **Express.js:** A web application framework for Node.js that simplifies the creation of robust APIs and server-side logic.

- **React:** A powerful JavaScript library for building user interfaces, enabling the development of dynamic and interactive components.

- **Node.js:** A JavaScript runtime that allows for server-side scripting, facilitating the development of scalable network applications.

Architecture:-

Frontend (UI)

→React

→Handles user input

→Display data

External Services

→Handles Event Dates

→Issues JWT tokens

API Requests

RESTful APIs

Request | Response

Backend (API)

→Express.js Server

→Fetch data from the database and store

CRUD Operations

Performed

Database

→MongoDB

→Stores User data

→Stores APP data

ER DIAGRAM:-
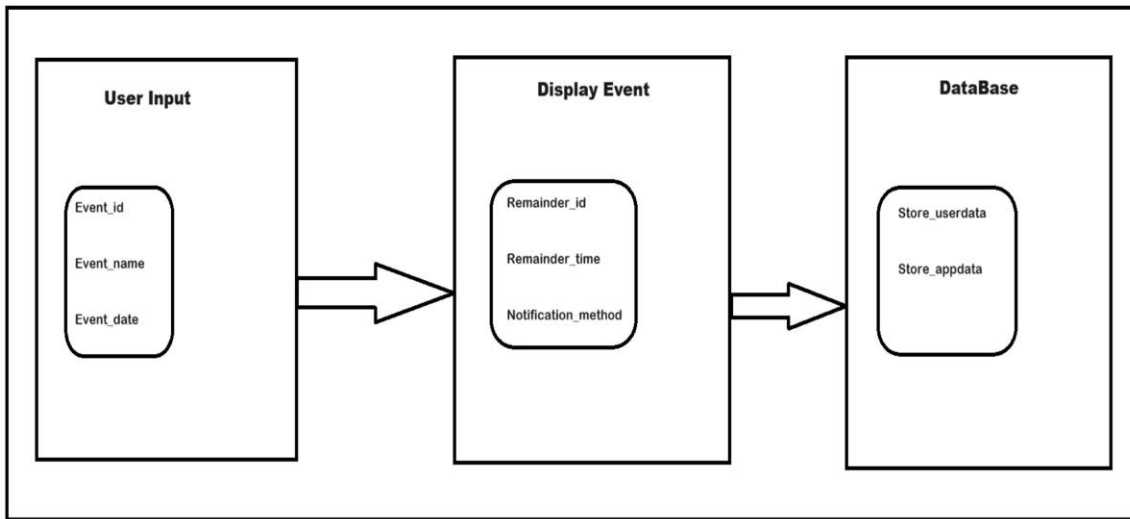
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    },
    "node_modules/has-property-descriptors": {
      "version": "1.0.2",
      "resolved": "https://registry.npmjs.org/has-property-descriptors/-/has-property-
descriptors-1.0.2.tgz",
      "integrity": "sha512-
55JNKuIW+vq4Ke1BjOTjM2YctQIvCT7GFzHwmfZPGo5wnrgkid0YQtnAleFSqumZm4az3n2BS+erby5ipJdgrg=="
,
      "license": "MIT",
      "dependencies": {
```

```
      "es-define-property": "^1.0.0"
    },
    "funding": {
      "url": "https://github.com/sponsors/ljharb"
    }
  },
  "node_modules/has-proto": {
    "version": "1.0.3",
    "resolved": "https://registry.npmjs.org/has-proto/-/has-proto-1.0.3.tgz",
    "integrity": "sha512-
SJ1amZAJUiZS+PhsVLf5tGydlaVB8EdFpaSO4gmiUKUOxk8qzn5AIy4ZeJUmh22znIdk/uMAUT2pl3FxzVUH+Q==",
    "license": "MIT",
    "engines": {
      "node": ">= 0.4"
    },
    "funding": {
      "url": "https://github.com/sponsors/ljharb"
    }
  },
  "node_modules/has-symbols": {
    "version": "1.0.3",
    "resolved": "https://registry.npmjs.org/has-symbols/-/has-symbols-1.0.3.tgz",
    "integrity": "sha512-
l3LCuF6MgDNwTDKkdYGEihYjt5pRPbEg46rtlmnSPlUbgmB8LOIrKJbYYFBSbnPaJexMKtiPO8hmeRjRz2Td+A==",
    "license": "MIT",
    "engines": {
      "node": ">= 0.4"
    },
    "funding": {
      "url": "https://github.com/sponsors/ljharb"
    }
  },
  "node_modules/hasown": {
    "version": "2.0.2",
    "resolved": "https://registry.npmjs.org/hasown/-/hasown-2.0.2.tgz",
    "integrity": "sha512-
0hJU9SCPvmMzIBdZFqNPXWa6dqh7WdH0cII9y+CyS8rG3nL48Bclra9HmKhVVUHyPWNH5Y7xDwAB7bfgSjkUMQ==",
    "license": "MIT",
    "dependencies": {
      "function-bind": "^1.1.2"
    },
    "engines": {
      "node": ">= 0.4"
    }
```

```
    },
    "node_modules/http-errors": {
      "version": "2.0.0",
      "resolved": "https://registry.npmjs.org/http-errors/-/http-errors-2.0.0.tgz",
      "integrity": "sha512-
FtwrG/euBzaEjYeRqOgly7G0qviiXoJWnvEH2Z1plBdXgbyjv34pHTSb9zoeHMyDy33+DWy5Wt9Wo+TURtOYSQ=="
,
      "license": "MIT",
      "dependencies": {
        "depd": "2.0.0",
        "inherits": "2.0.4",
        "setprototypeof": "1.2.0",
        "statuses": "2.0.1",
        "toidentifier": "1.0.1"
      },
      "engines": {
        "node": ">= 0.8"
      }
    },
    "node_modules/iconv-lite": {
      "version": "0.4.24",
      "resolved": "https://registry.npmjs.org/iconv-lite/-/iconv-lite-0.4.24.tgz",
      "integrity": "sha512-
v3MXnZAcvnywkTUEZomIActle7RXXeedOR31wwl7VlyoXO4Qi9arvSenNQWne1TcRwhCL1HwLI21bEqdpj8/rA=="
,
      "license": "MIT",
      "dependencies": {
        "safer-buffer": ">= 2.1.2 < 3"
      },
      "engines":  {
        "node": ">=0.10.0"
      }
    },
    "node_modules/inherits": {
      "version": "2.0.4",
      "resolved": "https://registry.npmjs.org/inherits/-/inherits-2.0.4.tgz",
      "integrity": "sha512-
k/vGaX4/Yla3WzyMCvTQOXYeIHvqOKtnqBduzTHpzpQZzAskKMhZ2K+EnBiSM9zGSoIFeMpXKxa4dYeZIQqewQ=="
,
      "license": "ISC"
    },
    "node_modules/ipaddr.js": {
      "version": "1.9.1",
      "resolved": "https://registry.npmjs.org/ipaddr.js/-/ipaddr.js-1.9.1.tgz",
      "integrity": "sha512-
0KI/607xoxSToH7GjN1FfSbLoU0+btTicjsQSWQlh/hZykN8KpmMf7uYwPW3R+akZ6R/w18ZlXSHBYXiYUPO3g=="
,
```

```json
      "license": "MIT",
      "engines": {
        "node": ">= 0.10"
      }
    },
    "node_modules/kareem": {
      "version": "2.6.3",
      "resolved": "https://registry.npmjs.org/kareem/-/kareem-2.6.3.tgz",
      "integrity": "sha512-
C3iHfuGUXK2u8/ipq9LfjFfXFxAZMQJJq7vLS45r3D9Y2xQ/m4S8zaR4zMLFWh9AsNPXmcFfUDhTEO8UIC/V6Q==",
      "license": "Apache-2.0",
      "engines": {
        "node": ">=12.0.0"
      }
    },
    "node_modules/media-typer": {
      "version": "0.3.0",
      "resolved": "https://registry.npmjs.org/media-typer/-/media-typer-0.3.0.tgz",
      "integrity": "sha512-
dq+qelQ9akHpcOl/gUVRTxVIOkAJ1wR3QAvb4RsVjS8oVoFjDGTc679wJYmUmknUF5HwMLOgb5O+a3KxfWapPQ==",
      "license": "MIT",
      "engines": {
        "node": ">= 0.6"
      }
    },
    "node_modules/memory-pager": {
      "version": "1.5.0",
      "resolved": "https://registry.npmjs.org/memory-pager/-/memory-pager-1.5.0.tgz",
      "integrity": "sha512-
ZS4Bp4r/Zoeq6+NLJpP+0Zzm0pR8whtGPf1XExKLJBAczGMnSi3It14OiNCStjQjM6NU1okjQGSxgEZN8eBYKg==",
      "license": "MIT"
    },
    "node_modules/merge-descriptors": {
      "version": "1.0.1",
      "resolved": "https://registry.npmjs.org/merge-descriptors/-/merge-descriptors-
1.0.1.tgz",
      "integrity": "sha512-
cCi6g3/Zr1iqQi6ySbseM1Xvooa98N0w31jzUYrXPX2xqObmFGHJ0tQ5u74H3mVh7wLouTseZyYIq39g8cNp1w==",
      "license": "MIT"
    },
    "node_modules/methods": {
      "version": "1.1.2",
      "resolved": "https://registry.npmjs.org/methods/-/methods-1.1.2.tgz",
```

```json
      "integrity": "sha512-
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,
      "license": "MIT",
      "engines": {
        "node": ">= 0.6"
      }
    },
    "node_modules/mime": {
      "version": "1.6.0",
      "resolved": "https://registry.npmjs.org/mime/-/mime-1.6.0.tgz",
      "integrity": "sha512-
x0Vn8spI+wuJ1O6S7gnbaQg8Pxh4NNHb7KSINmEWKiPE4RKOplvijn+NkmYmmRgP68mc70j2EbeTFRsrswaQeg=="
,
      "license": "MIT",
      "bin": {
        "mime": "cli.js"
      },
      "engines": {
        "node": ">=4"
      }
    },
    "node_modules/mime-db": {
      "version": "1.52.0",
      "resolved": "https://registry.npmjs.org/mime-db/-/mime-db-1.52.0.tgz",
      "integrity": "sha512-
sPU4uV7dYlvtWJxwwxHD0PuihVNiE7TyAbQ5SWxDCB9mUYvOgroQOwYQQOKPJ8CIbE+1ETVlOoK1UC2nU3gYvg=="
,
      "license": "MIT",
      "engines": {
        "node": ">= 0.6"
      }
    },
    "node_modules/mime-types": {
      "version": "2.1.35",
      "resolved": "https://registry.npmjs.org/mime-types/-/mime-types-2.1.35.tgz",
      "integrity": "sha512-
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,
      "license": "MIT",
      "dependencies": {
        "mime-db": "1.52.0"
      },
      "engines": {
        "node": ">= 0.6"
      }
    },
```

```json
    "node_modules/mongodb": {
      "version": "6.7.0",
      "resolved": "https://registry.npmjs.org/mongodb/-/mongodb-6.7.0.tgz",
      "integrity": "sha512-
TMKyHdtMcO0fYBNORiYdmM25ijsHs+Njs963r4Tro4OQZzqYigAzYQouwWRg4OIaiLRUEGUh/1UAcH5lxdSLIA=="
,
      "license": "Apache-2.0",
      "dependencies": {
        "@mongodb-js/saslprep": "^1.1.5",
        "bson": "^6.7.0",
        "mongodb-connection-string-url": "^3.0.0"
      },
      "engines": {
        "node": ">=16.20.1"
      },
      "peerDependencies": {
        "@aws-sdk/credential-providers": "^3.188.0",
        "@mongodb-js/zstd": "^1.1.0",
        "gcp-metadata": "^5.2.0",
        "kerberos": "^2.0.1",
        "mongodb-client-encryption": ">=6.0.0 <7",
        "snappy": "^7.2.2",
        "socks": "^2.7.1"
      },
      "peerDependenciesMeta": {
        "@aws-sdk/credential-providers": {
          "optional": true
        },
        "@mongodb-js/zstd": {
          "optional": true
        },
        "gcp-metadata": {
          "optional": true
        },
        "kerberos": {
          "optional": true
        },
        "mongodb-client-encryption": {
          "optional": true
        },
        "snappy": {
          "optional": true
        },
        "socks": {
          "optional": true
        }
      }
```

```
    },
    "node_modules/mongodb-connection-string-url": {
      "version": "3.0.1",
      "resolved": "https://registry.npmjs.org/mongodb-connection-string-url/-/mongodb-
connection-string-url-3.0.1.tgz",
      "integrity": "sha512-
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,
      "license": "Apache-2.0",
      "dependencies": {
        "@types/whatwg-url": "^11.0.2",
        "whatwg-url": "^13.0.0"
      }
    },
    "node_modules/mongoose": {
      "version": "8.5.3",
      "resolved": "https://registry.npmjs.org/mongoose/-/mongoose-8.5.3.tgz",
      "integrity": "sha512-
OubSDbsAclDFGHjV82MsKyIGQWFc42Ot1l+0dhRS6U9xODM7rm/ES/WpOQd8Ds9j0Mx8QzxZtrSCnBh6o9wUqw=="
,
      "license": "MIT",
      "dependencies": {
        "bson": "^6.7.0",
        "kareem": "2.6.3",
        "mongodb": "6.7.0",
        "mpath": "0.9.0",
        "mquery": "5.0.0",
        "ms": "2.1.3",
        "sift": "17.1.3"
      },
      "engines": {
        "node": ">=16.20.1"
      },
      "funding": {
        "type": "opencollective",
        "url": "https://opencollective.com/mongoose"
      }
    },
    "node_modules/mongoose/node_modules/ms": {
      "version": "2.1.3",
      "resolved": "https://registry.npmjs.org/ms/-/ms-2.1.3.tgz",
      "integrity": "sha512-
6FlzubTLZG3J2a/NVCAleEhjzq5oxgHyaCU9yYXvcLsvoVaHJq/s5xXI6/XXP6tz7R9xAOtHnSO/tXtF3WRTlA=="
,
      "license": "MIT"
    },
    "node_modules/mpath": {
```

```
      "version": "0.9.0",
      "resolved": "https://registry.npmjs.org/mpath/-/mpath-0.9.0.tgz",
      "integrity": "sha512-
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,
      "license": "MIT",
      "engines": {
        "node": ">=4.0.0"
      }
    },
    "node_modules/mquery": {
      "version": "5.0.0",
      "resolved": "https://registry.npmjs.org/mquery/-/mquery-5.0.0.tgz",
      "integrity": "sha512-
iQMncpmEK8R8ncT8HJGsGc9Dsp8xcgYMVSbs5jgnm1lFHTZqMJTUWTDx1LBO8+mK3tPNZWFLBghQEIOULSTHZg=="
,
      "license": "MIT",
      "dependencies": {
        "debug": "4.x"
      },
      "engines":  {
        "node": ">=14.0.0"
      }
    },
    "node_modules/mquery/node_modules/debug": {
      "version": "4.3.6",
      "resolved": "https://registry.npmjs.org/debug/-/debug-4.3.6.tgz",
      "integrity": "sha512-
O/09Bd4Z1fBrU4VzkhFqVgpPzaGbw6Sm9FEkBT1A/YBXQFGuuSxa1dN2nxgxS34JmKXqYx8CZAwEVoJFImUXIg=="
,
      "license": "MIT",
      "dependencies": {
        "ms": "2.1.2"
      },
      "engines": {
        "node": ">=6.0"
      },
      "peerDependenciesMeta": {
        "supports-color": {
          "optional": true
        }
      }
    },
    "node_modules/mquery/node_modules/ms": {
      "version": "2.1.2",
      "resolved": "https://registry.npmjs.org/ms/-/ms-2.1.2.tgz",
```

```json
      "integrity": "sha512-
sGkPx+VjMtmA6MX27oA4FBFELFCZZ4S4XqeGOXCv68tT+jb3vk/RyaKWP0PTKyWtmLSM0b+adUTEvbs1PEaH2w==
",
      "license": "MIT"
    },
    "node_modules/ms": {
      "version": "2.0.0",
      "resolved": "https://registry.npmjs.org/ms/-/ms-2.0.0.tgz",
      "integrity": "sha512-
Tpp60P6IUJDTuOq/5Z8cdskzJujfwqfOTkrwIwj7IRISpnkJnT6SyJ4PCPnGMoFjC9ddhal5KVIYtAt97ix05A==
",
      "license": "MIT"
    },
    "node_modules/negotiator": {
      "version": "0.6.3",
      "resolved": "https://registry.npmjs.org/negotiator/-/negotiator-0.6.3.tgz",
      "integrity": "sha512-
+EUsqGPLsM+j/zdChZjsnX51g4XrHFOIXwfnCVPGlQk/k5giakcKsuxCObBRu6DSm9opw/O6slWbJdghQM4bBg==
",
      "license": "MIT",
      "engines": {
        "node": ">= 0.6"
      }
    },
    "node_modules/object-inspect": {
      "version": "1.13.2",
      "resolved": "https://registry.npmjs.org/object-inspect/-/object-inspect-
1.13.2.tgz",
      "integrity": "sha512-
IRZSRuzJiynemAXPYtPe5BoI/RESNYR7TYm50MC5Mqbd3Jmw5y790sErYw3V6SryFJD64b74qQQs9wn5Bg/k3g==
",
      "license": "MIT",
      "engines": {
        "node": ">= 0.4"
      },
      "funding": {
        "url": "https://github.com/sponsors/ljharb"
      }
    },
    "node_modules/on-finished": {
      "version": "2.4.1",
      "resolved": "https://registry.npmjs.org/on-finished/-/on-finished-2.4.1.tgz",
      "integrity": "sha512-
oVlzkg3ENAhCk2zdv7IJwd/QUD4z2RxRwpkcGY8psCVcCYZNq4wYnVWALHM+brtuJjePWiYF/ClmuDr8Ch5+kg==
",
      "license": "MIT",
      "dependencies": {
```

```json
      "ee-first": "1.1.1"
    },
    "engines": {
      "node": ">= 0.8"
    }
  },
  "node_modules/parseurl": {
    "version": "1.3.3",
    "resolved": "https://registry.npmjs.org/parseurl/-/parseurl-1.3.3.tgz",
    "integrity": "sha512-
CiyeOxFT/JZyN5m0z9PfXw4SCBJ6Sygz1Dpl0wqjlhDEGGBP1GnsUVEL0p63hoG1fcj3fHynXi9NYO4nWOL+qQ=="
,
    "license": "MIT",
    "engines": {
      "node": ">= 0.8"
    }
  },
  "node_modules/path-to-regexp": {
    "version": "0.1.7",
    "resolved": "https://registry.npmjs.org/path-to-regexp/-/path-to-regexp-0.1.7.tgz",
    "integrity": "sha512-
5DFkuoqlv1uYQKxy8omFBeJPQcdoE07Kv2sferDCrAq1ohOU+MSDswDIbnx3YAM60qIOnYa53wBhXW0EbMonrQ=="
,
    "license": "MIT"
  },
  "node_modules/proxy-addr": {
    "version": "2.0.7",
    "resolved": "https://registry.npmjs.org/proxy-addr/-/proxy-addr-2.0.7.tgz",
    "integrity": "sha512-
llQsMLSUDUPT44jdrU/O37qlnifitDP+ZwrmmZcoSKyLKvtZxpyV0n2/bD/N4tBAAZ/gJEdZU7KMraoK1+XYAg=="
,
    "license": "MIT",
    "dependencies": {
      "forwarded": "0.2.0",
      "ipaddr.js": "1.9.1"
    },
    "engines": {
      "node": ">= 0.10"
    }
  },
  "node_modules/punycode": {
    "version": "2.3.1",
    "resolved": "https://registry.npmjs.org/punycode/-/punycode-2.3.1.tgz",
    "integrity": "sha512-
vYt7UD1U9Wg6138shLtLOvdAu+8DsC/ilFtEVHcH+wydcSpNE20AfSOduf6MkRFahL5FY7X1oU7nKVZFtfq8Fg=="
,
    "license": "MIT",
```

```json
      "engines": {
        "node": ">=6"
      }
    },
    "node_modules/qs": {
      "version": "6.11.0",
      "resolved": "https://registry.npmjs.org/qs/-/qs-6.11.0.tgz",
      "integrity": "sha512-
MvjoMCJwEarSbUYk5O+nmoSzSutSsTwF85zcHPQ9OrlFoZOYIjaqBAJIqIXjptyD5vThxGq52Xu/MaJzRkIk4Q==",
      "license": "BSD-3-Clause",
      "dependencies": {
        "side-channel": "^1.0.4"
      },
      "engines": {
        "node": ">=0.6"
      },
      "funding": {
        "url": "https://github.com/sponsors/ljharb"
      }
    },
    "node_modules/range-parser": {
      "version": "1.2.1",
      "resolved": "https://registry.npmjs.org/range-parser/-/range-parser-1.2.1.tgz",
      "integrity": "sha512-
Hrgsx+orqoygnmhFbKaHE6c296J+HTAQXoxEF6gNupROmmGJRoyzfG3ccAveqCBrwr/2yxQ5BVd/GTl5agOwSg==",
      "license": "MIT",
      "engines": {
        "node": ">= 0.6"
      }
    },
    "node_modules/raw-body": {
      "version": "2.5.2",
      "resolved": "https://registry.npmjs.org/raw-body/-/raw-body-2.5.2.tgz",
      "integrity": "sha512-
8zGqypfENjCIqGhgXToC8aB2r7YrBX+AQAfIPs/Mlk+BtPTztOvTS01NRW/3Eh60J+a48lt8qsCzirQ6loCVfA==",
      "license": "MIT",
      "dependencies": {
        "bytes": "3.1.2",
        "http-errors": "2.0.0",
        "iconv-lite": "0.4.24",
        "unpipe": "1.0.0"
      },
      "engines": {
        "node": ">= 0.8"
```

```json
      }
    },
    "node_modules/safe-buffer": {
      "version": "5.2.1",
      "resolved": "https://registry.npmjs.org/safe-buffer/-/safe-buffer-5.2.1.tgz",
      "integrity": "sha512-
rp3So07KcdmmKbGvgaNxQSJr7bGVSVk5S9Eq1F+ppbRo70+YeaDxkw5Dd8NPN+GD6bjnYm2VuPuCXmpuYvmCXQ=="
,
      "funding": [
        {
          "type": "github",
          "url": "https://github.com/sponsors/feross"
        },
        {
          "type": "patreon",
          "url": "https://www.patreon.com/feross"
        },
        {
          "type": "consulting",
          "url": "https://feross.org/support"
        }
      ],
      "license": "MIT"
    },
    "node_modules/safer-buffer": {
      "version": "2.1.2",
      "resolved": "https://registry.npmjs.org/safer-buffer/-/safer-buffer-2.1.2.tgz",
      "integrity": "sha512-
YZo3K82SD7Riyi0E1EQPojLz7kpepnSQI9IyPbHHg1XXXevb5dJI7tpyN2ADxGcQbHG7vcyRHk0cbwqcQriUtg=="
,
      "license": "MIT"
    },
    "node_modules/send": {
      "version": "0.18.0",
      "resolved": "https://registry.npmjs.org/send/-/send-0.18.0.tgz",
      "integrity": "sha512-
qqWzuOjSFOuqPjFe4NOsMLafToQQwBSOEpS+FwEt3A2V3vKubTquT3vmLTQpFgMXp8AlFWFuP1qKaJZOtPpVXg=="
,
      "license": "MIT",
      "dependencies": {
        "debug": "2.6.9",
        "depd": "2.0.0",
        "destroy": "1.2.0",
        "encodeurl": "~1.0.2",
        "escape-html": "~1.0.3",
        "etag": "~1.8.1",
        "fresh": "0.5.2",
```

```
          "http-errors": "2.0.0",
          "mime": "1.6.0",
          "ms": "2.1.3",
          "on-finished": "2.4.1",
          "range-parser": "~1.2.1",
          "statuses": "2.0.1"
      },
      "engines":  {
          "node": ">= 0.8.0"
      }
    },
    "node_modules/send/node_modules/ms": {
      "version": "2.1.3",
      "resolved": "https://registry.npmjs.org/ms/-/ms-2.1.3.tgz",
      "integrity": "sha512-
6FlzubTLZG3J2a/NVCAleEhjzq5oxgHyaCU9yYXvcLsvoVaHJq/s5xXI6/XXP6tz7R9xAOtHnSO/tXtF3WRTlA=="
,
      "license": "MIT"
    },
    "node_modules/serve-static": {
      "version": "1.15.0",
      "resolved": "https://registry.npmjs.org/serve-static/-/serve-static-1.15.0.tgz",
      "integrity": "sha512-
XGuRDNjXUijsUL0vl6nSD7cwURuzEgglbOaFuZM9g3kwDXOWVTck0jLzjPzGD+TazWbboZYu52/9/XPdUgne9g=="
,
      "license": "MIT",
      "dependencies": {
          "encodeurl": "~1.0.2",
          "escape-html": "~1.0.3",
          "parseurl": "~1.3.3",
          "send": "0.18.0"
      },
      "engines":  {
          "node": ">= 0.8.0"
      }
    },
    "node_modules/set-function-length": {
      "version": "1.2.2",
      "resolved": "https://registry.npmjs.org/set-function-length/-/set-function-length-
1.2.2.tgz",
      "integrity": "sha512-
pgRc4hJ4/sNjWCSS9AmnS40x3bNMDTknHgL5UaMBTMyJnU90EgWh1Rz+MC9eFu4BuN/UwZjKQuY/1v3rM7HMfg=="
,
      "license": "MIT",
      "dependencies": {
          "define-data-property": "^1.1.4",
          "es-errors": "^1.3.0",
```

```
          "function-bind": "^1.1.2",
          "get-intrinsic": "^1.2.4",
          "gopd": "^1.0.1",
          "has-property-descriptors": "^1.0.2"
        },
        "engines": {
          "node": ">= 0.4"
        }
      },
      "node_modules/setprototypeof": {
        "version": "1.2.0",
        "resolved": "https://registry.npmjs.org/setprototypeof/-/setprototypeof-1.2.0.tgz",
        "integrity": "sha512-
E5LDX7Wrp85Kil5bhZv46j8jOeboKq5JMmYM3gVGdGH8xFpPWXUMsNrlODCrkoxMEeNi/XZIwuRvY4XNwYMJpw==",

        "license": "ISC"
      },
      "node_modules/side-channel": {
        "version": "1.0.6",
        "resolved": "https://registry.npmjs.org/side-channel/-/side-channel-1.0.6.tgz",
        "integrity": "sha512-
fDW/EZ6Q9RiO8eFG8Hj+7u/oW+XrPTIChwCOM2+th2A6OblDtYYIpve9m+KvI9Z4C9qSEXlaGR6bTEYHReuglA==",

        "license": "MIT",
        "dependencies": {
          "call-bind": "^1.0.7",
          "es-errors": "^1.3.0",
          "get-intrinsic": "^1.2.4",
          "object-inspect": "^1.13.1"
        },
        "engines": {
          "node": ">= 0.4"
        },
        "funding": {
          "url": "https://github.com/sponsors/ljharb"
        }
      },
      "node_modules/sift": {
        "version": "17.1.3",
        "resolved": "https://registry.npmjs.org/sift/-/sift-17.1.3.tgz",
        "integrity": "sha512-
Rtlj66/b0ICeFzYTuNvX/EF1igRbbnGSvEyT79McoZa/DeGhMyC5pWKOEsZKnpkqtSeovd5FL/bjHWC3CIIvCQ==",

        "license": "MIT"
      },
      "node_modules/sparse-bitfield": {
        "version": "3.0.3",
```

```json
      "resolved": "https://registry.npmjs.org/sparse-bitfield/-/sparse-bitfield-
3.0.3.tgz",
      "integrity": "sha512-
kvzhi7vqKTfkh0PZU+2D2PIllw2ymqJKujUcyPMd9Y75Nv4nPbGJZXNhxsgdQab2BmlDct1YnfQCguEvHr7VsQ==="
,
      "license": "MIT",
      "dependencies": {
        "memory-pager": "^1.0.2"
      }
    },
    "node_modules/statuses": {
      "version": "2.0.1",
      "resolved": "https://registry.npmjs.org/statuses/-/statuses-2.0.1.tgz",
      "integrity": "sha512-
RwNA9Z/7PrK06rYLIzFMlaF+l73iwpzsqRIFgbMLbTcLD6cOao82TaWefPXQvB2fOC4AjuYSEndS7N/mTCbkdQ==="
,
      "license": "MIT",
      "engines": {
        "node": ">= 0.8"
      }
    },
    "node_modules/toidentifier": {
      "version": "1.0.1",
      "resolved": "https://registry.npmjs.org/toidentifier/-/toidentifier-1.0.1.tgz",
      "integrity": "sha512-
o5sSPKEkg/DIQNmH43V0/uerLrpzVedkUh8tGNvaeXpfpuwjKenlSox/2O/BTlZUtEe+JG7s5YhEz608PlAHRA==="
,
      "license": "MIT",
      "engines": {
        "node": ">=0.6"
      }
    },
    "node_modules/tr46": {
      "version": "4.1.1",
      "resolved": "https://registry.npmjs.org/tr46/-/tr46-4.1.1.tgz",
      "integrity": "sha512-
2lv/66T7e5yNyhAAC4NaKe5nVavzuGJQVVtRYLyQ2OI8tsJ61PMLlelehb0wi2Hx6+hT/OJUWZcw8MjlSRnxvw==="
,
      "license": "MIT",
      "dependencies": {
        "punycode": "^2.3.0"
      },
      "engines": {
        "node": ">=14"
      }
    },
    "node_modules/type-is": {
```

```
      "version": "1.6.18",
      "resolved": "https://registry.npmjs.org/type-is/-/type-is-1.6.18.tgz",
      "integrity": "sha512-
TkRKr9sUTxEH8MdfuCSP7VizJyzRNMjj2J2do2Jr3Kym598JVdEksuzPQCnlFPW4ky9Q+iA+ma9BGm06XQBy8g=="
,
      "license": "MIT",
      "dependencies": {
        "media-typer": "0.3.0",
        "mime-types": "~2.1.24"
      },
      "engines": {
        "node": ">= 0.6"
      }
    },
    "node_modules/unpipe": {
      "version": "1.0.0",
      "resolved": "https://registry.npmjs.org/unpipe/-/unpipe-1.0.0.tgz",
      "integrity": "sha512-
pjy2bYhSsufwWlKwPc+l3cN7+wuJlK6uz0YdJEOlQDbl6jo/YlPi4mb8agUkVC8BF7V8NuzeyPNqRksA3hztKQ=="
,
      "license": "MIT",
      "engines": {
        "node": ">= 0.8"
      }
    },
    "node_modules/utils-merge": {
      "version": "1.0.1",
      "resolved": "https://registry.npmjs.org/utils-merge/-/utils-merge-1.0.1.tgz",
      "integrity": "sha512-
pMZTvIkT1d+TFGvDOqodOclx0QWkkgi6Tdoa8gC8ffGAAqz9pzPTZWAybbsHHoED/ztMtkv/VoYTYyShUn81hA=="
,
      "license": "MIT",
      "engines": {
        "node": ">= 0.4.0"
      }
    },
    "node_modules/vary": {
      "version": "1.1.2",
      "resolved": "https://registry.npmjs.org/vary/-/vary-1.1.2.tgz",
      "integrity": "sha512-
BNGbWLfd0eUPabhkXUVm0j8uuvREyTh5ovRa/dyow/BqAbZJyC+5fU+IzQOzmAKzYqYRAISoRhdQr3eIZ/PXqg=="
,
      "license": "MIT",
      "engines": {
        "node": ">= 0.8"
      }
    },
```

```json
    "node_modules/webidl-conversions": {
      "version": "7.0.0",
      "resolved": "https://registry.npmjs.org/webidl-conversions/-/webidl-conversions-
7.0.0.tgz",
      "integrity": "sha512-
VwddBukDzu71offAQR975unBIGqfKZpM+8ZX6ySk8nYhVoo5CYaZyzt3YBvYtRtO+aoGlqxPg/B87NGVZ/fu6g=="
,
      "license": "BSD-2-Clause",
      "engines": {
        "node": ">=12"
      }
    },
    "node_modules/whatwg-url": {
      "version": "13.0.0",
      "resolved": "https://registry.npmjs.org/whatwg-url/-/whatwg-url-13.0.0.tgz",
      "integrity": "sha512-
9WWbymnqj57+XEuqADHrCJ2eSXzn8WXIW/YSGaZtb2WKAInQ6CHfaUUcTyyver0p8BDg5StLQq8h1vtZuwmOig=="
,
      "license": "MIT",
      "dependencies": {
        "tr46": "^4.1.1",
        "webidl-conversions": "^7.0.0"
      },
      "engines": {
        "node": ">=16"
      }
    }
  }
}
```

APP.JS

```
    // src/App.js
import React, { useState, useEffect } from 'react';
import axios from 'axios';
import EventForm from './components/EventForm';
import EventList from './components/EventList';
import './App.css'


const App = () => {
    const [events, setEvents] = useState([]);

    useEffect(() => {
        // Fetch events from the server
```

```javascript
    axios.get('http://localhost:5000/api/events')
        .then(response => setEvents(response.data))
        .catch(error => console.error(error));
}, []);

const handleEventAdd = (newEvent) => {
    setEvents([...events, newEvent]);
};

const handleEventDelete = (id) => {
    console.log("delete event " + id)
    // Delete an event
    axios.delete(`http://localhost:5000/api/events/${id}`)
        .then(
            () =>
                setEvents(events.filter(event => event._id !== id)))
        .catch(error => console.error(error));
};

const handleToggleReminder = (eventId) => {
    // console.log('HI');

    // Find the event by ID
    const selectedEvent =
        events.find(event => event._id === eventId);

    // Toggle the reminder status
    const updatedEvent =
    {
        ...selectedEvent,
        reminder: !selectedEvent.reminder
    };

    // console.log('Updated',updatedEvent);


    // Update the event in the database
    axios.put(`http://localhost:5000/api/events/${eventId}`, updatedEvent)
        .then(response => {
            // console.log('res',response.data);

            // If the update is successful, update the events in the state
            const updatedEvents = events.map(event =>
                event._id === eventId ? updatedEvent : event
            );
            setEvents(updatedEvents);
        })
```

```
            .catch(
                error =>
                    console.error(`Error updating reminder status for
                    event with ID ${eventId}:`, error));
    };

    const onEventEdit = (eventId, updatedData) => {
        // Update the event in the database
        axios.put(`http://localhost:5000/api/events/${eventId}`, updatedData)
            .then(response => {
                // If the update is successful, update the events in the state
                const updatedEvents = events.map(event =>
                    event._id ===
                        eventId ?
                        { ...event, ...updatedData } : event
                );
                setEvents(updatedEvents);
            })
            .catch(
                error =>
                    console.error(`Error updating event with
                        ID ${eventId}:`, error)
                );
    };

    return (
        <div className='main-container'>
            <h1 className='EVENT MANAGER'>
                GFG
            </h1>
            <h2>Event Management App</h2>
            <EventForm onEventAdd={handleEventAdd} />
            <EventList
                events={events}
                onEventDelete={handleEventDelete}
                onToggleReminder={handleToggleReminder}
                onEventEdit={onEventEdit}
            />
        </div>
    );
};

export default App;
```

APP.CSS

```css
          .App {
  text-align: center;
}


.App-logo {
  height: 40vmin;
  pointer-events: none;
}

@media (prefers-reduced-motion: no-preference) {
  .App-logo {
    animation: App-logo-spin infinite 20s linear;
  }
}

.App-header {
  background-color: #282c34;
  min-height: 100vh;
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: center;
  font-size: calc(10px + 2vmin);
  color: white;
}

.App-link {
  color: #61dafb;
}

@keyframes App-logo-spin {
  from {
    transform: rotate(0deg);
  }
  to {
    transform: rotate(360deg);
  }
}
```

Index.html

```html
          <!DOCTYPE html>
<html lang="en">
  <head>
```

```
    <meta charset="utf-8" />
    <link rel="icon" href="%PUBLIC_URL%/favicon.ico" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <meta name="theme-color" content="#000000" />
    <meta
      name="description"
      content="Web site created using create-react-app"
    />
    <link rel="apple-touch-icon" href="%PUBLIC_URL%/logo192.png" />
    <!--
      manifest.json provides metadata used when your web app is installed on a
      user's mobile device or desktop. See
https://developers.google.com/web/fundamentals/web-app-manifest/
    -->
    <link rel="manifest" href="%PUBLIC_URL%/manifest.json" />
    <!--
      Notice the use of %PUBLIC_URL% in the tags above.
      It will be replaced with the URL of the `public` folder during the build.
      Only files inside the `public` folder can be referenced from the HTML.

      Unlike "/favicon.ico" or "favicon.ico", "%PUBLIC_URL%/favicon.ico" will
      work correctly both with client-side routing and a non-root public URL.
      Learn how to configure a non-root public URL by running `npm run build`.
    -->
    <title>React App</title>
  </head>
  <body>
    <noscript>You need to enable JavaScript to run this app.</noscript>
    <div id="root"></div>
    <!--
      This HTML file is a template.
      If you open it directly in the browser, you will see an empty page.

      You can add webfonts, meta tags, or analytics to this file.
      The build step will place the bundled scripts into the <body> tag.

      To begin the development, run `npm start` or `yarn start`.
      To create a production bundle, use `npm run build` or `yarn build`.
    -->
  </body>
</html>
```

Index.css

```
        body {
  margin: 0;
```

```css
  font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI', 'Roboto', 'Oxygen',
    'Ubuntu', 'Cantarell', 'Fira Sans', 'Droid Sans', 'Helvetica Neue',
    sans-serif;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
}

code {
  font-family: source-code-pro, Menlo, Monaco, Consolas, 'Courier New',
    monospace;
}
```

Index.js

```javascript
import React from 'react';
import ReactDOM from 'react-dom/client';
import './index.css';
import App from './App';
import reportWebVitals from './reportWebVitals';

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
  <React.StrictMode>
    <App />
  </React.StrictMode>
);

// If you want to start measuring performance in your app, pass a function
// to log results (for example: reportWebVitals(console.log))
// or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
reportWebVitals();
```

Server.js

```javascript
// server.js
const express = require('express');
const mongoose = require('mongoose');
const bodyParser = require('body-parser');
const cors = require('cors');
const eventRoutes = require('./routes/eventRoutes');


const app = express();
```

```javascript
const PORT = process.env.PORT || 5000;

// Middleware
app.use(cors());
app.use(bodyParser.json());

// Connect to MongoDB
mongoose.connect('mongodb://localhost:27017/event_management', {
    useNewUrlParser: true,
    useUnifiedTopology: true,
}).then(() => {
    console.log('Connected to MongoDB')
});

// Routes
app.use('/api/events', eventRoutes);

// Start server
app.listen(PORT, () => {
    console.log(`Server is running on port ${PORT}`);
});
```

Package.json

```json
{
  "name": "event-managaement",
  "version": "1.0.0",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "",
  "license": "ISC",
  "description": "",
  "dependencies": {
    "express": "^4.19.2",
    "mongoose": "^8.5.3"
  }
}
```

Eventmodels.js

```javascript
// models/Event.js
const mongoose = require('mongoose');
```

```
const eventSchema = new mongoose.Schema({
    title: { type: String, required: true },
    date: { type: Date, required: true },
    reminder: { type: Boolean, default: false },

});
const Event = mongoose.model('Event', eventSchema);


module.exports = Event;
```

EventRoutes.js

```
const express = require('express');
const app = express();
const router = express.Router();
const Event = require('../models/event');

// Define routes on the router object...
router.get('/', async (req, res) => {
  // ...
});

router.post('/', async (req, res) => {
  // ...
});

router.delete('/:id', async (req, res) => {
  // ...
});

router.put('/:id', async (req, res) => {
  // ...
});

app.use('/', router);
app.listen(3000, () => {
    console.log('Server started on port 3000');
  });

  module.exports = router;
```
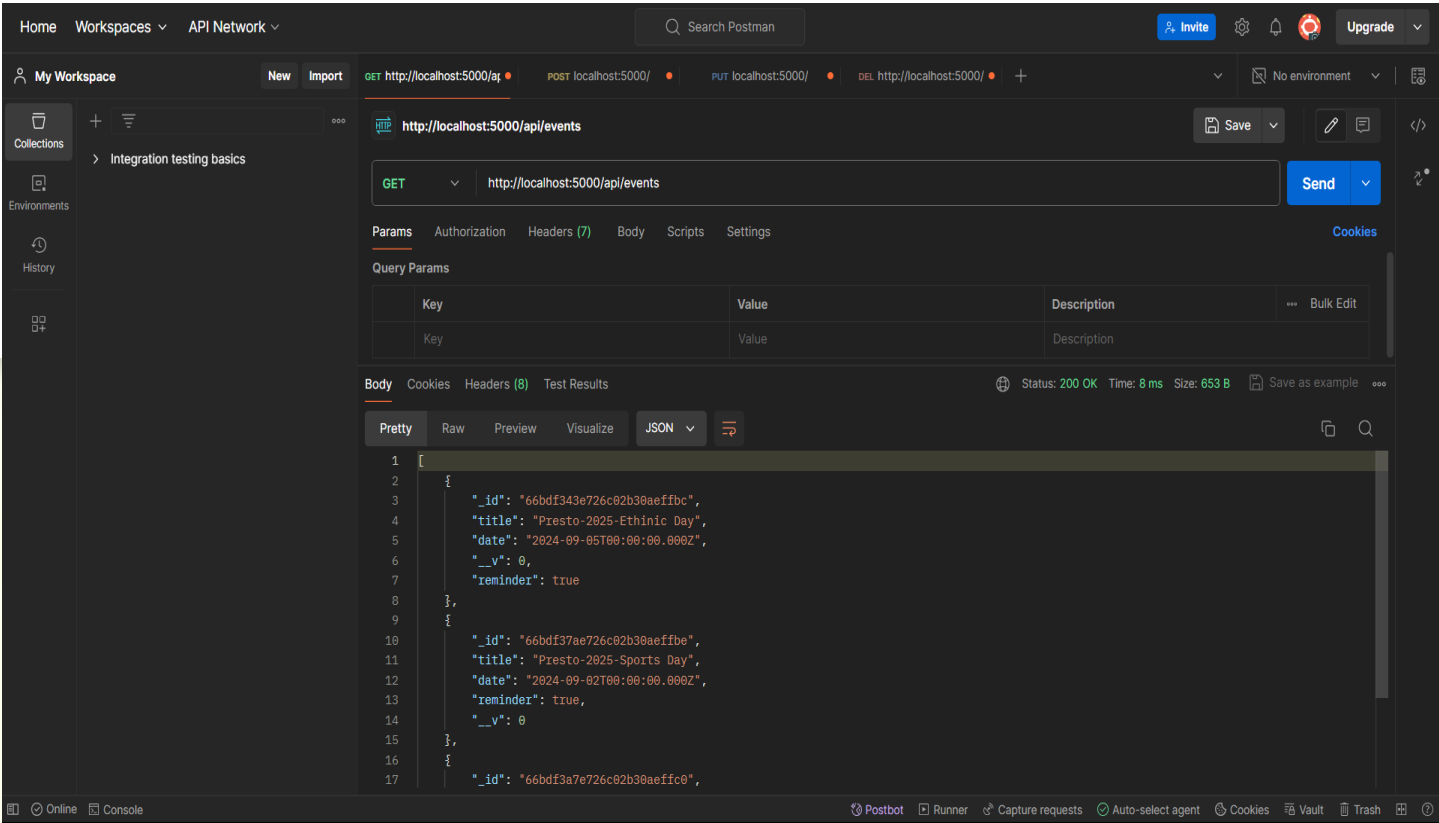
Input: (UI)

Output:
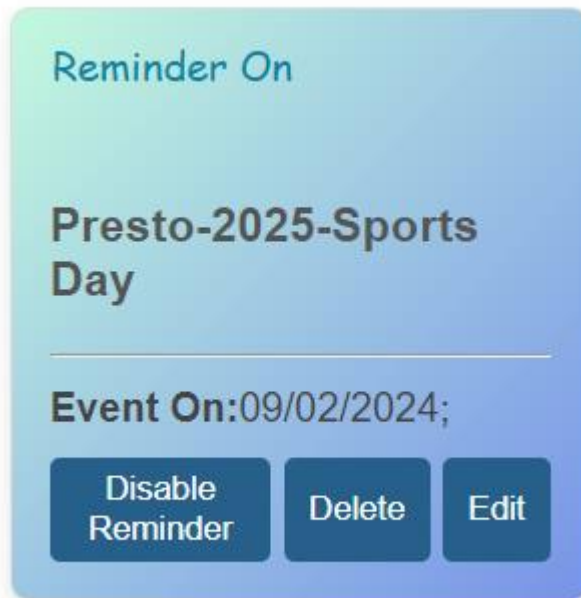
Data Base: (mongo db compass)
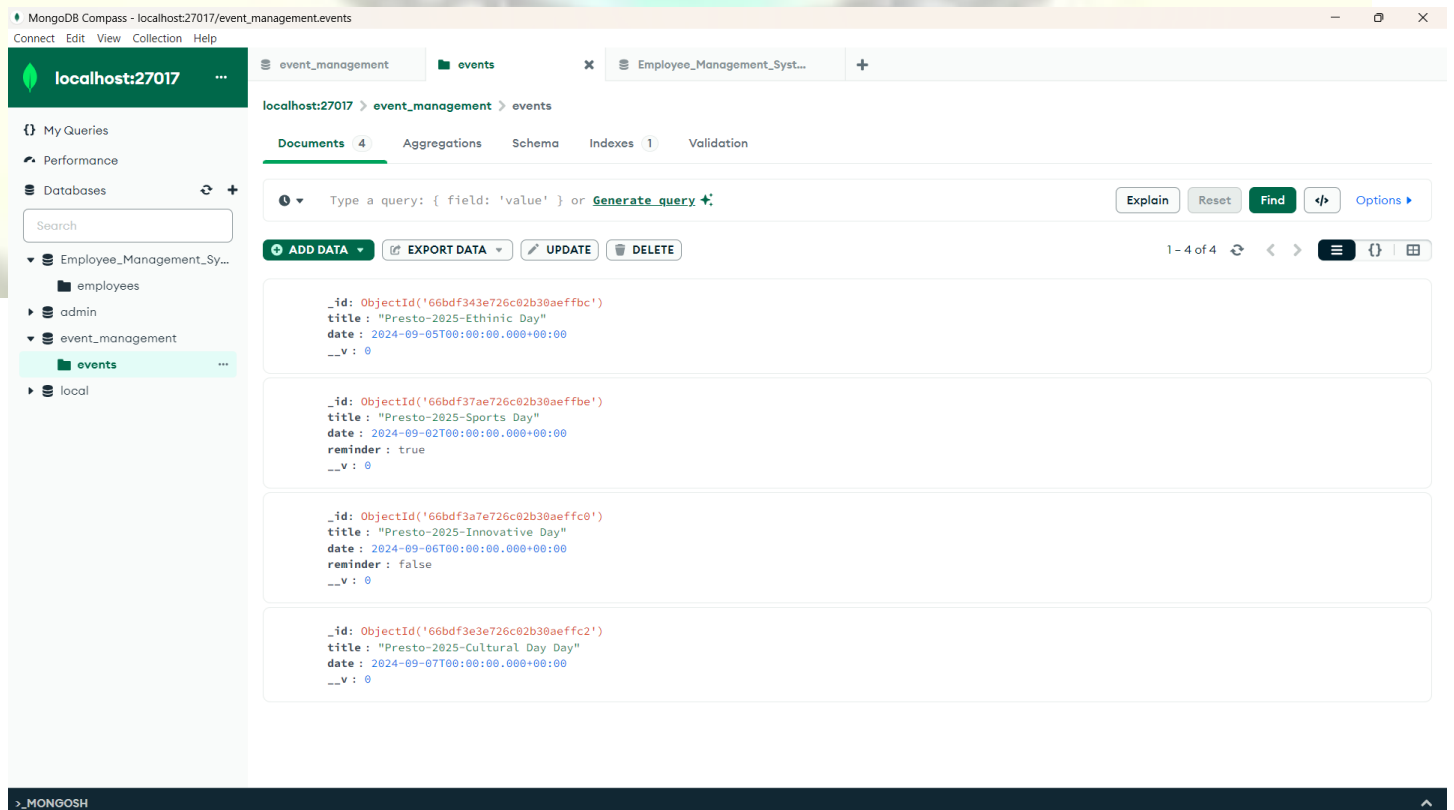
Testing the Project:

Conclusion

The Event Management App serves as a comprehensive solution for individuals and organizations looking to streamline their event planning processes. By harnessing the capabilities of the MERN stack, this application not only enhances productivity but also provides a delightful user experience. As we continue to iterate and improve upon this project, we aim to incorporate additional features and functionalities based on user feedback and emerging trends in event management.