1. MicroServices to fetch the API and store the data in the Database, Publish the User data to the frontend and update the data in the table

Fetched API data using **AXIOS** and stored in **MongoDB** database.

### **Model Script**

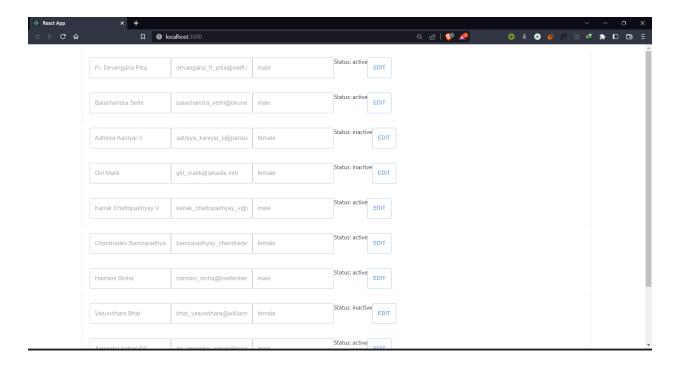
```
const mongoose = require("mongoose");
const DataSchema = mongoose.Schema(
const Data = mongoose.model("Data", DataSchema);
module.exports = Data;
```

## Fetched Data and Stored in MongoDB

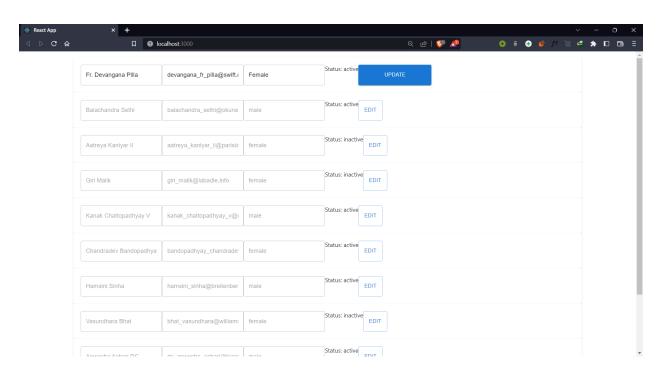
## MongoDB Data

# 2. FrontEnd development to view and update the user data

Published the data in frontend



### **Edit Fields**



### 3. Microservice to export the data into CSV

```
try {
   const data = await Data.find();
    const csvFields = [
      "Name",
      "Email",
      "Gender",
      "Status",
      "CreatedAt",
      "UpdatedAt",
    ];
    const csvParser = new CsvParser({ csvFields });
    const csvData = csvParser.parse(data);
   res.setHeader("Content-Type", "text/csv");
   res.setHeader("Content-Disposition", "attachment;
filename=data.csv");
   res.status(200).end(csvData);
  } catch (err) {
   res.status(500).send({ message: err.message | |
"Internal Server Error!" });
```

Export CSV from MongoDB and Sending to Frontend using Node.JS

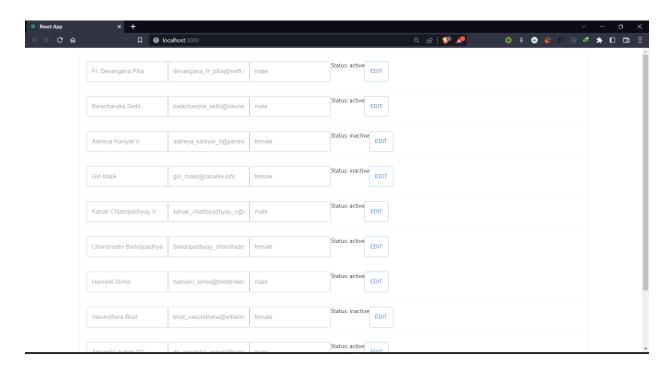
```
const getCSVHandler = () => {
   return axios({
     method: "GET",
     url: "http://localhost:5000/api/getCSV",
     responseType: "arraybuffer",
     headers: {
       Accept: "text/csv",
     },
   })
     .then((response) => {
       console.log(response);
       if (response.status === 200 && response) {
         return response.data;
      })
     .catch((error) => console.log(error));
 };
 const onHandleDownload = () => {
   getCSVHandler().then((data) => {
     const blob = new Blob([data], {
       type: "text.csv",
     });
     saveAs(blob, "csv name.csv");
  };
```

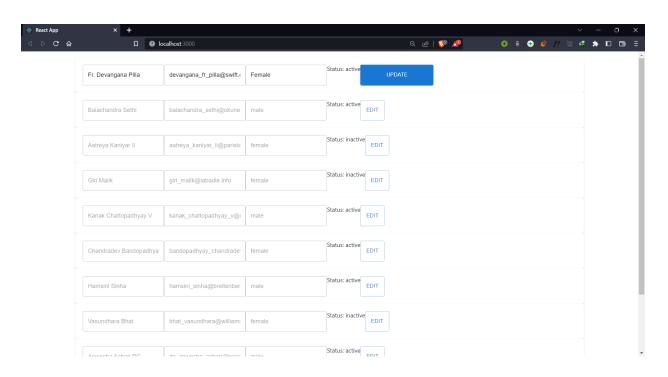
### 5.DB Script

## Fetching Data & Editing Data

```
exports.getData = async (req, res) => {
  console.log("Reached Backend");
  try {
    const data = await Data.find();
    res.status(200).json({ data: data });
  } catch (err) {
    res.status(500).send({ message: err.message || "Internal
Server Error!" });
};
exports.editData = async (req, res) => {
  console.log("Reached Backend");
 let body = {
   name: req.body.name,
   email: req.body.email,
    status: req.body.status,
   gender: req.body.gender,
  };
  try {
    await Data.findByIdAndUpdate(req.body. id, {
      ...body,
    });
    res.status(200).json({ message: "Data updated!" });
  } catch (err) {
    console.log(err);
    res.status(500).send({ message: err.message || "Internal"
Server Error!" });
```

# 6. Frontend webpage screenshots





## 7.API access postman screenshots and Postman collection file

## Get Data **GET** request

```
http://localhost:5000/api/getData
                                                                                                         Send
                                             Pre Run New
Query
        Headers <sup>2</sup> Auth
                            Body
                                    Tests
Status: 200 OK Size: 2.21 KB Time: 269 ms
                                                                                                   Response ~
        "data": [
            "_id": "63a2df635d93f6d21ed823ea",
            "name": "Fr. Devangana Pilla",
            "email": "devangana_fr_pilla@swift.co",
            "gender": "Female",
            "status": "active",
            "createdAt": "2022-12-21T10:26:43.681Z",
            "updatedAt": "2022-12-21T12:19:55.638Z",
            "_v": 0
            "_id": "63a2df635d93f6d21ed823eb",
            "name": "Balachandra Sethi",
            "email": "balachandra_sethi@okuneva-spencer.io",
            "gender": "male",
```

### Edit Data POST request with JSON data

```
POST V http://localhost:5000/api/editData
                                                                                                                  Send
                                                Pre Run New
Query
         Headers <sup>2</sup> Auth
                                       Tests
                               Form-encode
                                              Graphql
        Xml
               Text
                      Form
                                                         Binary
        "_id": "63a2df635d93f6d21ed823ea",
        "name": "Fr. Devangana Pilla",
        "email": "devangana_fr_pilla@swift.co",
        "gender": "male",
"status":"active"
Status: 200 OK Size: 27 Bytes Time: 293 ms
                                                                                                            Response ~
       "message": "Data updated!"
```

### Requesting CSV file from API

