

Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam – 603110

(An Autonomous Institution, Affiliated to Anna University, Chennai)

Department of Computer Science & Engineering



UCS2611--- Internet Programming Lab

Consult Ease: Automated Consultancy Management System

Saisandeep Sangeetham 3122 22 5001 119

Srivathsan S 3122 22 5001 141

UCS2611—Internet Programming Lab

Mini Project

AIM:

The aim of this project is to develop a user-friendly and efficient web application titled "**ConsultEase: Automated Consultancy Management System**" that facilitates the secure acquisition, management, and retrieval of consultancy project data. The system is designed to streamline the data entry process, provide advanced filtering and download options, and ensure timely communication through periodic email notifications — all while utilizing Excel sheets for data storage, without relying on traditional databases.

Requirements

These are the tools and technologies needed to develop and run the project:

Frontend

1. **React:** For building user interfaces.
2. **Vite:** A fast build tool and development server for modern web projects.
3. **Material-UI (MUI):** A React component library for building responsive and accessible UIs.
4. **Axios:** A promise-based HTTP client for making API requests.
5. **React Router:** For handling routing in the application.
6. **XLSX:** For exporting data to Excel files.
7. **File-Saver:** For saving files on the client-side.

Backend

1. **Express.js:** For building the backend API.
2. **MongoDB:** A NoSQL database for storing user auth information.
3. **Mongoose:** An ODM library for MongoDB.
4. **JWT (jsonwebtoken):** For user authentication and authorization.
5. **Bcrypt.js:** For hashing passwords securely.
6. **Nodemailer:** For sending emails (e.g., OTPs) and notification alerts.
7. **Google APIs:** For integrating Google Drive and Google Sheets.
8. **Multer:** For handling file uploads.
9. **dotenv:** For managing environment variables.
10. **Morgan:** For logging HTTP requests.
11. **Nodemon:** For automatically restarting the backend server during development.

Functionalities in ConsultEase

1. User Authentication

Login:

Allows users to log in using their email and password.
Verifies credentials using JWT for secure authentication.

Register:

Enables new users to create an account by providing their details.
Passwords are securely hashed using bcrypt.js before storing them in the database.

2. Password Management

Forgot Password:

Users can reset their password by verifying their email with an OTP.
After OTP verification, users are redirected to a page where they can set a new password.

OTP Generation and Verification:

An OTP is sent to the user's email using Nodemailer.
The OTP is verified before allowing access to the password reset page.

3. Project Submission

Submit Consultancy Project:

Users can submit details of consultancy projects, including:

Industry Name

Project Title

Principal Investigator (PI)

Co-Principal Investigator (Co-PI)

Academic Year

Financial details (e.g., Amount Sanctioned, Amount Received)

Supporting documents (e.g., Bill Proof, Signed Agreement)

Files are uploaded to Google Drive using the Google Drive API.

Project details are stored in Google Sheets using the Google Sheets API.

4. Project Filtering and Viewing

View Projects:

Displays a list of all consultancy projects in a tabular format.

Filter Projects:

Users can filter projects based on:

Academic Year

Industry Name

Principal Investigator (PI)

Co-Principal Investigator (Co-PI)

Amount Range (Sanctioned Amount)

Export to Excel:

Users can export the filtered project data to an Excel file using the XLSX library.

5. Notifications

Email Notifications:

Sends OTPs to users for email verification during password reset.

Sends confirmation emails after successful project submission.

6. Admin Dashboard

View All Submissions:

Admins can view all project submissions in a centralized dashboard.

Filter and Search:

Admins can filter submissions based on various criteria (e.g., PI, Co-PI, Industry Name).

Download Data:

Admins can download project data as an Excel file for offline analysis.

7. Security

JWT Authentication:

Protects routes and ensures only authenticated users can access certain functionalities.

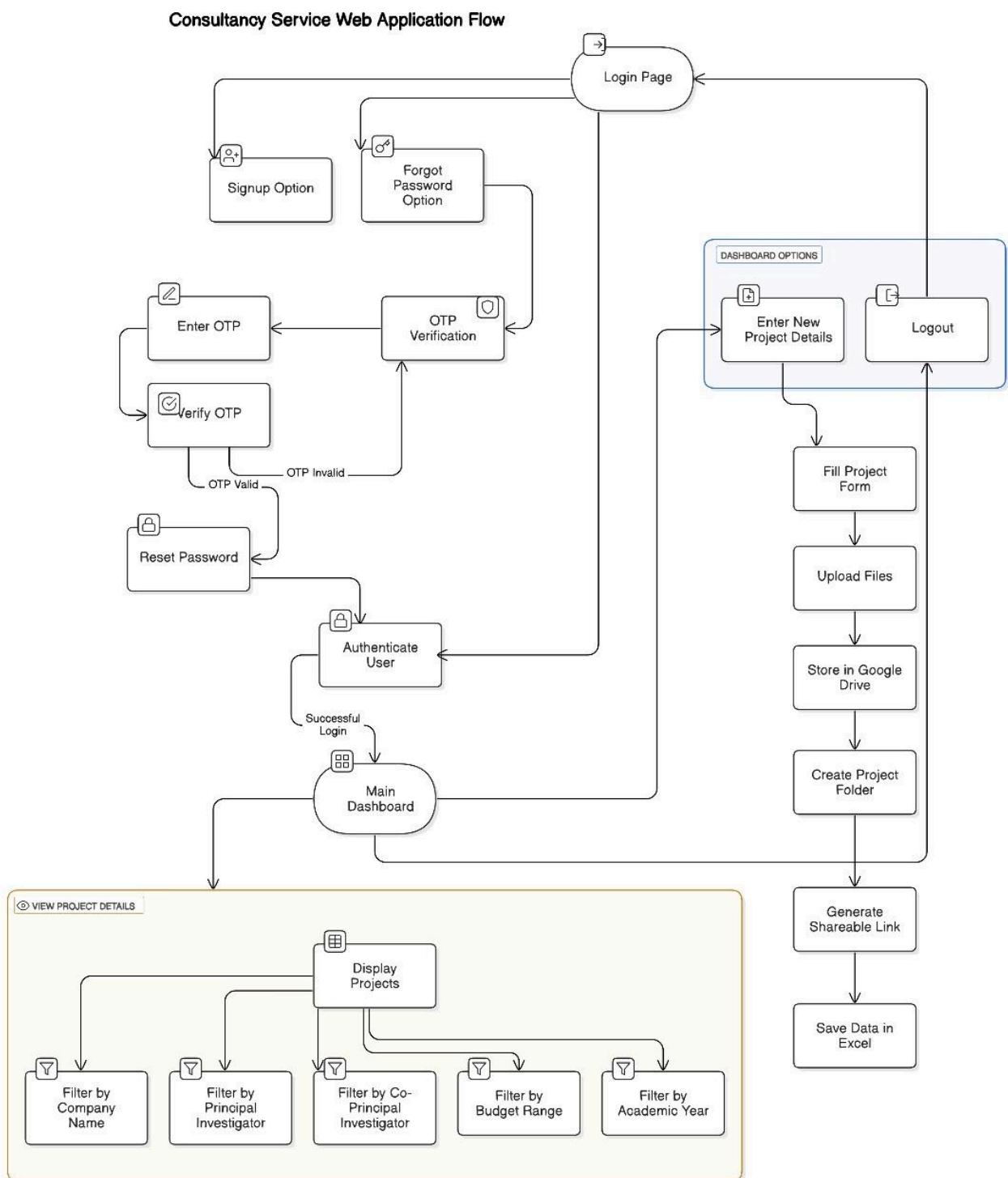
Password Hashing:

Uses bcrypt.js to hash passwords before storing them in the database.

Environment Variables:

Sensitive information (e.g., API keys, database credentials) is stored securely using dotenv

Flow Diagram :



CODE :

Frontend :

React Components :

Login.jsx:

```
import React, { useState, useEffect } from "react";
import "../CSS/login.css";
import { useNavigate } from "react-router-dom";
import { loginUser } from "../Helpers/api_communicator";

const Login = () => {
  const navigate = useNavigate();
  const [credentials, setCredentials] = useState({ email: "", psd: "" });
  const [error, setError] = useState("");
  const [loading, setLoading] = useState(false);

  // Check if user is already logged in
  useEffect(() => {
    const token = localStorage.getItem("token");
    if (token) {
      navigate("/form");
    }
  }, [navigate]);

  const gotoSignup = () => {
    navigate("/signup");
  };

  const gotoForgotPsd = ()=>{
    navigate("/verifyotp");
  };

  const handleLogin = async (event) => {
    event.preventDefault();
    setLoading(true);
    setError("");

    try {
      const result = await loginUser(credentials);

      if (result.success) {
```

```
// Successfully logged in
alert("Login Successfull");
navigate("/form", { replace: true });
} else {
  setError(result.error || "Login failed");
}
} catch (err) {
  setError("An unexpected error occurred");
  console.error(err);
} finally {
  setLoading(false);
}
};

return (
  <div className="login_container">
    <div className="brand"></div>
    <div className="login">
      <form onSubmit={handleLogin}>
        <h2>LOGIN</h2>
        <input
          type="email"
          placeholder="Enter your email"
          value={credentials.email}
          onChange={(e) =>
            setCredentials({ ...credentials, email: e.target.value })
          }
          required
        />
        <input
          type="password"
          placeholder="Enter your password"
          value={credentials.psd}
          onChange={(e) =>
            setCredentials({ ...credentials, psd: e.target.value })
          }
          required
        />
        {error && (
          <div
            style={{
              color: "rgb(255, 237, 39)",
              fontSize: "15px",
              height: "10px",
              textAlign: "left",
              marginBottom: "8px",
            }}>

```

```

        {error}
      </div>
    )}
<input
  type="submit"
  value={loading ? "Logging in..." : "Login"}
  disabled={loading}
/>
<a onClick={gotoSignup} style={{ cursor: "pointer" }}>
  Don't have an account?
</a>

<a onClick={gotoForgotPsd} style={{ cursor: "pointer" }}>
  Forgot Password
</a>
</form>
</div>
</div>
);
};

export default Login;

```

Signup.jsx:

```

import React, { useState } from "react";
import "../CSS/login.css";
import { useNavigate } from "react-router-dom";
import { registerUser } from "../Helpers/api_communicator";

const Signup = () => {
  const navigate = useNavigate();
  const [credentials, setCredentials] = useState({
    name: "",
    email: "",
    psd: "",
    con_psd: ""
  });
  const [error, setError] = useState("");
  const [loading, setLoading] = useState(false);

  React.useEffect(() => {
    const token = localStorage.getItem("token");

```

```
    if (token) {
      navigate("/form");
    }
  }, [navigate]);

const gotoLogin = () => {
  navigate("/");
};

const handleSignup = async (event) => {
  event.preventDefault();
  setLoading(true);
  setError("");

  if (!credentials.name.trim()) {
    setError("Name is required");
    setLoading(false);
    return;
  }

  if (credentials.psd !== credentials.con_psd) {
    setError("Passwords do not match");
    setLoading(false);
    return;
  }

  try {
    const result = await registerUser(credentials);

    if (result.success) {
      navigate("/", {
        state: { message: "Registration successful! Please login." },
      });
    } else {
      setError(result.error || "Registration failed");
    }
  } catch (error) {
    setError("An unexpected error occurred");
    console.error(error);
  } finally {
    setLoading(false);
  }
};

return (
  <div className="login_container">
    <div className="brand"></div>
```

```
<div className="login">
  <form onSubmit={handleSignup}>
    <h2>Sign Up</h2>
    <input
      type="text"
      placeholder="Enter your name"
      value={credentials.name}
      onChange={(e) =>
        setCredentials({
          ...credentials,
          name: e.target.value,
        })
      }
      required
    />
    <input
      type="email"
      placeholder="Enter your email"
      value={credentials.email}
      onChange={(e) =>
        setCredentials({
          ...credentials,
          email: e.target.value,
        })
      }
      required
    />
    <input
      type="password"
      placeholder="Enter your password"
      value={credentials.psd}
      onChange={(e) =>
        setCredentials({
          ...credentials,
          psd: e.target.value,
        })
      }
      required
    />
    <input
      type="password"
      placeholder="Confirm your password"
      value={credentials.con_psd}
      onChange={(e) =>
        setCredentials({
          ...credentials,
          con_psd: e.target.value,
        })
      }
    />
  </form>
</div>
```

```

        })
    }
    required
/>
{error && (
    <div
        style={{
            color: "rgb(255, 237, 39)",
            fontSize: "15px",
            height: "10px",
            textAlign: "left",
            marginBottom: "8px",
        }}>
        {error}
    </div>
)}
<input
    type="submit"
    value={loading ? "Signing up..." : "Sign Up"}
    disabled={loading}
/>
<a onClick={gotoLogin} style={{ cursor: "pointer" }}>
    Already have an account?
</a>
</form>
</div>
</div>
);
};

export default Signup;

```

ForgotPassword.jsx :

```

import React, { useState } from "react";
import "../CSS/login.css";
import { useNavigate } from "react-router-dom";
import { registerUser } from "../Helpers/api_communicator";

const Signup = () => {
    const navigate = useNavigate();
    const [credentials, setCredentials] = useState({
        name: "",
        email: "",

```

```
psd: "",
con_psd: "",
});
const [error, setError] = useState("");
const [loading, setLoading] = useState(false);

React.useEffect(() => {
  const token = localStorage.getItem("token");
  if (token) {
    navigate("/form");
  }
}, [navigate]);

const gotoLogin = () => {
  navigate("/");
};

const handleSignup = async (event) => {
  event.preventDefault();
  setLoading(true);
  setError("");

  if (!credentials.name.trim()) {
    setError("Name is required");
    setLoading(false);
    return;
  }

  if (credentials.psd !== credentials.con_psd) {
    setError("Passwords do not match");
    setLoading(false);
    return;
  }

  try {
    const result = await registerUser(credentials);

    if (result.success) {
      navigate("/", {
        state: { message: "Registration successful! Please login." },
      });
    } else {
      setError(result.error || "Registration failed");
    }
  } catch (error) {
    setError("An unexpected error occurred");
    console.error(error);
  }
};
```

```
    } finally {
      setLoading(false);
    }
};

return (
  <div className="login_container">
    <div className="brand"></div>
    <div className="login">
      <form onSubmit={handleSignup}>
        <h2>Sign Up</h2>
        <input
          type="text"
          placeholder="Enter your name"
          value={credentials.name}
          onChange={(e) =>
            setCredentials({
              ...credentials,
              name: e.target.value,
            })
          }
          required
        />
        <input
          type="email"
          placeholder="Enter your email"
          value={credentials.email}
          onChange={(e) =>
            setCredentials({
              ...credentials,
              email: e.target.value,
            })
          }
          required
        />
        <input
          type="password"
          placeholder="Enter your password"
          value={credentials.psd}
          onChange={(e) =>
            setCredentials({
              ...credentials,
              psd: e.target.value,
            })
          }
          required
        />
    
```

```

<input
  type="password"
  placeholder="Confirm your password"
  value={credentials.con_psd}
  onChange={(e) =>
    setCredentials({
      ...credentials,
      con_psd: e.target.value,
    })
  }
  required
/>
{error && (
  <div
    style={{
      color: "rgb(255, 237, 39)",
      fontSize: "15px",
      height: "10px",
      textAlign: "left",
      marginBottom: "8px",
    }}>
    {error}
  </div>
)}
<input
  type="submit"
  value={loading ? "Signing up..." : "Sign Up"}
  disabled={loading}
/>
<a onClick={gotoLogin} style={{ cursor: "pointer" }}>
  Already have an account?
</a>
</form>
</div>
</div>
);
};

export default Signup;

```

Otp.jsx :

```
import React, { useState } from "react";
import { useNavigate } from "react-router-dom";
import {
  Box,
  Container,
  Typography,
  TextField,
  Button,
  Paper,
  Stack,
  InputAdornment,
  IconButton,
  Snackbar,
  Alert,
  CircularProgress,
  Divider,
} from "@mui/material";

import { generateOTP, verifyOtp } from "../Helpers/api_communicator";
import LockIcon from "@mui/icons-material/Lock";
import EmailIcon from "@mui/icons-material/Email";
import ArrowBackIcon from "@mui/icons-material/ArrowBack";
import SendIcon from "@mui/icons-material/Send";

const OTP = () => {
  const [email, setEmail] = useState("");
  const [otp, setOtp] = useState("");
  const [loading, setLoading] = useState(false);
  const [otpSent, setOtpSent] = useState(false);
  const [alert, setAlert] = useState({
    open: false,
    message: "",
    severity: "info",
  });

  const navigate = useNavigate();

  const handleSendOTP = async (e) => {
    e.preventDefault();

    if (!email || !/\S+@\S+\.\S+/.test(email)) {
      setAlert({
        open: true,
        message: "Please enter a valid email address",
        severity: "error",
      });
      return;
    }

    const otpGenerated = await generateOTP(email);
    if (otpGenerated) {
      setOtp(otpGenerated);
      setOtpSent(true);
      setAlert({
        open: true,
        message: "OTP sent successfully",
        severity: "success",
      });
    } else {
      setAlert({
        open: true,
        message: "Failed to send OTP",
        severity: "error",
      });
    }
  };
}

export default OTP;
```

```
}

 setLoading(true);
try {
  const result = await generateOTP(email);

  if (result.success) {
    setAlert({
      open: true,
      message: "OTP sent successfully! Please check your email",
      severity: "success",
    });
    setOtpSent(true);
  } else {
    setAlert({
      open: true,
      message: result.error || "Failed to send OTP",
      severity: "error",
    });
  }
} catch (error) {
  setAlert({
    open: true,
    message: "An error occurred while sending OTP",
    severity: "error",
  });
  console.log(error);
} finally {
  setLoading(false);
}
};

const handleVerifyOTP = async (e) => {
  e.preventDefault();

  if (!otp || otp.length < 6) {
    setAlert({
      open: true,
      message: "Please enter a valid 6-digit OTP",
      severity: "error",
    });
    return;
  }

  setLoading(true);
  try {
    const result = await verifyOtp({ email, otp });
  
```

```
if (result.success) {
  setAlert({
    open: true,
    message: "OTP verified successfully!",
    severity: "success",
  });

  sessionStorage.setItem("verified_email", email);

  setTimeout(() => {
    navigate("/forgotPsd");
  }, 1500);
} else {
  setAlert({
    open: true,
    message: result.error || "OTP verification failed",
    severity: "error",
  });
}
} catch (error) {
  setAlert({
    open: true,
    message: "OTP verification failed. Please try again.",
    severity: "error",
  });
  console.log(error);
} finally {
  setLoading(false);
}
};

const handleResendOTP = async () => {
  if (!email) {
    setAlert({
      open: true,
      message: "Email address is required",
      severity: "error",
    });
    return;
  }

  setLoading(true);
  try {
    const result = await generateOTP(email);

    if (result.success) {
```

```

        setAlert({
          open: true,
          message: "OTP resent successfully! Please check your email",
          severity: "success",
        });
      } else {
        setAlert({
          open: true,
          message: result.error || "Failed to resend OTP",
          severity: "error",
        });
      }
    } catch (error) {
      setAlert({
        open: true,
        message: "An error occurred while resending OTP",
        severity: "error",
      });
      console.log(error);
    } finally {
      setLoading(false);
    }
  };
}

const handleCloseAlert = () => {
  setAlert({ ...alert, open: false });
};

const goBack = () => {
  navigate("/");
};

return (
  <Container maxWidth="sm" sx={{ mt: 8 }}>
    <IconButton
      sx={{ mb: 2 }}
      onClick={goBack}
      color="primary"
    >
      <ArrowBackIcon /> Back
    </IconButton>

    <Paper elevation={3} sx={{ p: 4, borderRadius: 2 }}>
      <Stack spacing={3} alignItems="center">
        <Box sx={{ textAlign: "center" }}>
          <Box
            sx={{{

```

```

        display: "inline-flex",
        bgcolor: "primary.light",
        p: 2,
        borderRadius: "50%",
        mb: 2
    )}
>
<LockIcon fontSize="large" color="primary" />
</Box>
<Typography variant="h5" component="h1" gutterBottom
fontWeight="medium">
    Forgot Password
</Typography>
<Typography variant="body1" color="text.secondary" sx={{ mb: 2 }}>
    {otpSent
        ? `Enter the verification code sent to ${email}`
        : "Enter your email to receive a verification code"
    }
</Typography>
</Box>

{!otpSent ? (
    <Box component="form" noValidate sx={{ width: "100%" }}
onSubmit={handleSendOTP}>
    <TextField
        fullWidth
        label="Email Address"
        type="email"
        value={email}
        onChange={(e) => setEmail(e.target.value)}
        variant="outlined"
        required
        placeholder="Enter your email address"
        sx={{ mb: 3 }}
        InputProps={{
            startAdornment: (
                <InputAdornment position="start">
                    <EmailIcon color="action" />
                </InputAdornment>
            ),
        }}
    />

    <Button
        type="submit"
        variant="contained"
        fullWidth
        size="large"
    >
        Send OTP
    </Button>
</Box>
)
: (
    <Text>
        Enter your email to receive a verification code
    </Text>
)
}

```

```

        disabled={loading}
        sx={{ py: 1.5 }}
        startIcon={!loading && <SendIcon />}
      >
        {loading ? (
          <CircularProgress size={24} color="inherit" />
        ) : (
          "Send OTP"
        )}
      </Button>
    </Box>
  ) : (
    <Box component="form" noValidate sx={{ width: "100%" }}>
onSubmit={handleVerifyOTP}>
  <TextField
    fullWidth
    label="Enter OTP"
    value={otp}
    onChange={(e) => setOtp(e.target.value)}
    variant="outlined"
    required
    inputProps={{
      maxLength: 6,
      inputMode: 'numeric',
      pattern: '[0-9]*'
    }}
    placeholder="Enter the 6-digit code"
    sx={{ mb: 3 }}
    InputProps={{
      startAdornment: (
        <InputAdornment position="start">
          <LockIcon color="action" />
        </InputAdornment>
      ),
    }}
  />

  <Button
    type="submit"
    variant="contained"
    fullWidth
    size="large"
    disabled={loading}
    sx={{ py: 1.5 }}
  >
    {loading ? (
      <CircularProgress size={24} color="inherit" />
    )
  }

```

```
        ) : (
            "Verify OTP"
        )}
    </Button>

    <Typography variant="body2" color="text.secondary"
textAlign="center" sx={{ mt: 2 }}>
        Didn't receive the code?
        <Button
            color="primary"
            sx={{ ml: 1 }}
            onClick={handleResendOTP}
            disabled={loading}
        >
            Resend OTP
        </Button>
    </Typography>
</Box>
)
</Stack>
</Paper>

<Snackbar
    open={alert.open}
    autoHideDuration={6000}
    onClose={handleCloseAlert}
    anchorOrigin={{ vertical: "bottom", horizontal: "center" }}
>
    <Alert
        onClose={handleCloseAlert}
        severity={alert.severity}
        variant="filled"
        sx={{ width: "100%" }}
    >
        {alert.message}
    </Alert>
</Snackbar>
</Container>
);
};

export default OTP;
```

Form.jsx :

```
import React, { useState } from "react";
import NavBar from "../components/NavBar";
import { formsubmission } from "../Helpers/api_communicator";
import {
  Container,
  Typography,
  TextField,
  Button,
  FormControl,
  InputLabel,
  Select,
  MenuItem,
  Box,
  Paper,
  Stack,
  FormHelperText,
  InputAdornment,
  Snackbar,
  Alert,
  CircularProgress,
} from "@mui/material";

const Form = () => {
  const [formData, setFormData] = useState({
    industryName: "",
    projectDuration: "",
    projectTitle: "",
    pi: "",
    coPI: "",
    academicYear: "",
    amountSanctioned: "",
    amountReceived: "",
    billDetails: "",
    billProof: null,
    agreement: null,
    studentDetails: "",
    projectSummary: "",
  });
  const [loading, setLoading] = useState(false);
  const [alert, setAlert] = useState({
    open: false,
```

```
        message: '',
        severity: "success",
    });

const handleChange = (e) => {
    const { name, value, files } = e.target;
    if (files) {
        setFormData((prev) => ({
            ...prev,
            [name]: files[0],
        }));
    } else {
        setFormData((prev) => ({
            ...prev,
            [name]: value,
        }));
    }
};

const handleSubmit = async (e) => {
    e.preventDefault();
    const { billProof, agreement } = formData;

    if (!billProof || !agreement) {
        setAlert({
            open: true,
            message: "Please upload all the required documents",
            severity: "error",
        });
        return;
    }

    const data = new FormData();
    for (let key in formData) {
        data.append(key, formData[key]);
    }

    setLoading(true);
    try {
        const response = await formsubmission(data);
        if (response.status === 200) {
            setAlert({
                open: true,
                message: "Form submitted successfully",
                severity: "success",
            });
            setFormData({

```

```

        industryName: '',
        projectDuration: '',
        projectTitle: '',
        pi: '',
        coPI: '',
        academicYear: '',
        amountSanctioned: '',
        amountReceived: '',
        billDetails: '',
        billProof: null,
        agreement: null,
        studentDetails: '',
        projectSummary: '',
    });
}
} catch (error) {
    setAlert({
        open: true,
        message:
            error.response?.data?.message ||
            "There was an error submitting the form.",
        severity: "error",
    });
} finally {
    setLoading(false);
}
};

const handleCloseAlert = () => {
    setAlert({ ...alert, open: false });
};

return (
    <div>
        <NavBar />
        <Container maxWidth="md" sx={{ mt: 4, mb: 8 }}>
            <Paper sx={{ p: 3, borderRadius: 2 }}>
                <Box sx={{ mb: 4, textAlign: "start" }}>
                    <Typography
                        variant="h5"
                        component="h2"
                        color="black"
                        fontWeight="medium">
                        Consultancy Project Details
                    </Typography>
                </Box>
            </Paper>
        </Container>
    </div>
);

```

```
<Box component="form" noValidate>
  <Stack spacing={3}>
    <TextField
      fullWidth
      label="Industry Name"
      name="industryName"
      value={formData.industryName}
      onChange={handleChange}
      required
      variant="outlined"
    />

    <TextField
      fullWidth
      label="Project Duration (in months)"
      name="projectDuration"
      type="number"
      value={formData.projectDuration}
      onChange={handleChange}
      required
      variant="outlined"
      InputProps={{
        endAdornment: (
          <InputAdornment position="end">months</InputAdornment>
        ),
      }}
    />

    <TextField
      fullWidth
      label="Project Title"
      name="projectTitle"
      value={formData.projectTitle}
      onChange={handleChange}
      required
      variant="outlined"
    />

    <TextField
      fullWidth
      label="Principal Investigator"
      name="pi"
      value={formData.pi}
      onChange={handleChange}
      required
      variant="outlined"
    />
```

```

<TextField
  fullWidth
  label="Co-Principal Investigator"
  name="coPI"
  value={formData.coPI}
  onChange={handleChange}
  variant="outlined"
/>

<FormControl fullWidth required>
  <InputLabel id="academic-year-label">Academic Year</InputLabel>
  <Select
    labelId="academic-year-label"
    id="academicYear"
    name="academicYear"
    value={formData.academicYear}
    onChange={handleChange}
    label="Academic Year">
    <MenuItem value="">
      <em>--Select Academic Year--</em>
    </MenuItem>
    <MenuItem value="1st Year">1st Year</MenuItem>
    <MenuItem value="2nd Year">2nd Year</MenuItem>
    <MenuItem value="3rd Year">3rd Year</MenuItem>
    <MenuItem value="4th Year">4th Year</MenuItem>
  </Select>
</FormControl>

<TextField
  fullWidth
  label="Amount Sanctioned (₹)"
  name="amountSanctioned"
  type="number"
  value={formData.amountSanctioned}
  onChange={handleChange}
  required
  variant="outlined"
  InputProps={{
    startAdornment: (
      <InputAdornment position="start">₹</InputAdornment>
    ),
  }}
/>

<TextField
  fullWidth

```

```

        label="Amount Received (₹)"
        name="amountReceived"
        type="number"
        value={formData.amountReceived}
        onChange={handleChange}
        required
        variant="outlined"
        InputProps={{
          startAdornment: (
            <InputAdornment position="start">₹</InputAdornment>
          ),
        }}
      />

<TextField
  fullWidth
  label="Bill Settlement Details"
  name="billDetails"
  multiline
  rows={3}
  value={formData.billDetails}
  onChange={handleChange}
  required
  variant="outlined"
/>

<Box>
  <Typography variant="subtitle1" gutterBottom>
    Bill Proof Upload:
  </Typography>
  <input
    type="file"
    name="billProof"
    onChange={handleChange}
    accept=".pdf, .jpg, .jpeg, .png"
    required
    style={{ width: "100%", padding: "10px 0" }}
  />
  {formData.billProof && (
    <FormHelperText>
      Selected file: {formData.billProof.name}
    </FormHelperText>
  )}
</Box>

<Box>
  <Typography variant="subtitle1" gutterBottom>

```

```
Signed Agreement Upload:  
</Typography>  
<input  
    type="file"  
    name="agreement"  
    onChange={handleChange}  
    accept=".pdf"  
    required  
    style={{ width: "100%", padding: "10px 0" }}  
/>  
{formData.agreement && (  
    <FormHelperText>  
        Selected file: {formData.agreement.name}  
    </FormHelperText>  
)}  
</Box>  
  
<TextField  
    fullWidth  
    label="Student Details"  
    name="studentDetails"  
    multiline  
    rows={3}  
    placeholder="Enter student names and roles"  
    value={formData.studentDetails}  
    onChange={handleChange}  
    required  
    variant="outlined"  
/>  
  
<Box>  
    <TextField  
        fullWidth  
        label="Project Summary (100 words)"  
        name="projectSummary"  
        multiline  
        rows={4}  
        value={formData.projectSummary}  
        onChange={handleChange}  
        inputProps={{ maxLength: 500 }}  
        required  
        variant="outlined"  
    />  
    <Typography  
        variant="caption"  
        sx={{ display: "block", mt: 1, textAlign: "right" }}>  
        {formData.projectSummary.length}/500 characters
```

```
        </Typography>
    </Box>

    <Box sx={{ mt: 3, textAlign: "center" }}>
        <Button
            type="submit"
            variant="contained"
            color="primary"
            size="large"
            onClick={handleSubmit}
            disabled={loading}
            sx={{ px: 4, py: 1, fontSize: "1rem" }}>
            {loading ? (
                <>
                    <CircularProgress
                        size={24}
                        color="inherit"
                        sx={{ mr: 1 }}
                    />{" "}
                    Submitting...
                </>
            ) : (
                "Submit"
            )}
        </Button>
    </Box>
</Stack>
</Box>
</Paper>
</Container>

<Snackbar
    open={alert.open}
    autoHideDuration={6000}
    onClose={handleCloseAlert}
    anchorOrigin={{ vertical: "bottom", horizontal: "center" }}>
    <Alert
        onClose={handleCloseAlert}
        severity={alert.severity}
        sx={{ width: "100%" }}>
        {alert.message}
    </Alert>
</Snackbar>
</div>
);
};
```

```
export default Form;
```

ViewData.jsx :

```
import React, { useState, useEffect } from "react";
import {
  Container,
  TextField,
  Select,
  MenuItem,
  InputLabel,
  FormControl,
  Button,
  Table,
  TableBody,
  TableCell,
  TableContainer,
  TableHead,
  TableRow,
  Paper,
  Box,
  Grid,
  Typography,
  CircularProgress,
  Divider,
  InputAdornment,
} from "@mui/material";
import * as XLSX from "xlsx";
import { saveAs } from "file-saver";
import NavBar from "../components/NavBar";
import axios from "axios";
import SearchIcon from "@mui/icons-material/Search";
import ClearAllIcon from "@mui/icons-material/ClearAll";

const ViewData = () => {
  const [data, setData] = useState([]);
  const [loading, setLoading] = useState(false);
  const [error, setError] = useState("");
  const [filters, setFilters] = useState({
    academicYear: "",
    minAmount: "",
    maxAmount: "",
    pi: "",
```

```

    copi: "",
    industryName: "",
  });

useEffect(() => {
  fetchData();
}, []);

const fetchData = async () => {
  setLoading(true);
  setError("");
  try {
    const response = await axios.get("http://localhost:8000/api/getData", {
      headers: {
        Authorization: `Bearer ${localStorage.getItem("token")}`,
      },
    });
    setData(response.data.data || []);
  } catch (error) {
    setError("Failed to fetch data. Please try again.");
    console.error("Error fetching data:", error);
  } finally {
    setLoading(false);
  }
};

const handleChange = (e) => {
  setFilters({ ...filters, [e.target.name]: e.target.value });
};

const applyFilters = async () => {
  setLoading(true);
  setError("");
  try {
    let endpoint = "http://localhost:8000/api/getData";

    if (filters.pi) {
      endpoint = `http://localhost:8000/api/getDataByPI/${filters.pi}`;
    }
    else if (filters.copi) {
      endpoint = `http://localhost:8000/api/getDataBycoPI/${filters.copi}`;
    }
    else if (filters.minAmount && filters.maxAmount) {
      endpoint =
`http://localhost:8000/api/getDataBySanctionAmt/${filters.minAmount}/${filters.maxAmount}`;
    }
  }
};

```

```

        else if (filters.industryName){
            endpoint =
`http://localhost:8000/api/getDataByIndustryName/${filters.industryName}` ;
        }

        const response = await axios.get(endpoint, {
            headers: {
                Authorization: `Bearer ${localStorage.getItem("token")}`,
            },
        });

        let filteredData = response.data.data || [];

        if (filters.academicYear && filteredData.length > 0) {
            filteredData = filteredData.filter(item =>
                item.academicYear === filters.academicYear
            );
        }

        setData(filteredData);
    } catch (error) {
        setError("Failed to apply filters. Please try again.");
        console.error("Error applying filters:", error);
    } finally {
        setLoading(false);
    }
};

const resetFilters = () => {
    setFilters({
        academicYear: "",
        minAmount: "",
        maxAmount: "",
        pi: "",
        copi: "",
        industryName: ""
    });
    fetchData();
};

const downloadExcel = () => {
    const worksheetData = data.map(item => ({
        "Industry Name": item.industryName,
        "Project Title": item.projectTitle,
        "Duration (months)": item.projectDuration,
        "Principal Investigator": item.pi,
        "Co-Principal Investigator": item.coPI,
    })
}

```

```

    "Academic Year": item.academicYear,
    "Amount Sanctioned": item.amountSanctioned,
    "Amount Received": item.amountReceived,
    "Bill Details": item.billDetails,
    "Student Details": item.studentDetails,
    "Project Summary": item.projectSummary,
  }));
}

const worksheet = XLSX.utils.json_to_sheet(worksheetData);
const workbook = XLSX.utils.book_new();
XLSX.utils.book_append_sheet(workbook, worksheet, "ConsultancyProjects");

const excelBuffer = XLSX.write(workbook, { bookType: "xlsx", type: "array"
});
const file = new Blob([excelBuffer], { type: "application/octet-stream" });
saveAs(file, "ConsultancyProjects.xlsx");
};

return (
  <div>
    <NavBar />
    <Container maxWidth="lg" sx={{ mt: 4, mb: 4 }}>
      <Typography variant="h4" gutterBottom>
        View Consultancy Projects
      </Typography>

      <Paper sx={{ p: 3, mb: 4, bgcolor: '#f9f9f9', borderRadius: 2 }}>
        <Box sx={{ mb: 2, display: 'flex', alignItems: 'center',
justifyContent: 'space-between' }}>
          <Typography variant="h6" fontWeight="medium" color="primary">
            Filter Projects
          </Typography>
          <Box>
            <Button
              variant="contained"
              color="primary"
              onClick={applyFilters}
              disabled={loading}
              startIcon={<SearchIcon />}
              sx={{ mr: 1 }}
            >
              Apply Filters
            </Button>
            <Button
              variant="outlined"
              onClick={resetFilters}
              disabled={loading}
            >

```

```

        startIcon={<ClearAllIcon />}
      >
      Reset
    </Button>
  </Box>
</Box>

<Divider sx={{ mb: 3 }} />

<Grid container spacing={2}>
  /* Academic Year Filter */
  <Grid item xs={12} md={4} lg={3}>
    <Paper elevation={0} sx={{ p: 2, bgcolor: 'white', height: '100%', borderRadius: 1 }}>
      <Typography variant="subtitle2" color="text.secondary" gutterBottom>
        Academic Year
      </Typography>
      <FormControl fullWidth size="small">
        <Select
          name="academicYear"
          value={filters.academicYear}
          onChange={handleChange}
          displayEmpty
        >
          <MenuItem value="">All Years</MenuItem>
          <MenuItem value="1st Year">1st Year</MenuItem>
          <MenuItem value="2nd Year">2nd Year</MenuItem>
          <MenuItem value="3rd Year">3rd Year</MenuItem>
          <MenuItem value="4th Year">4th Year</MenuItem>
        </Select>
      </FormControl>
    </Paper>
  </Grid>

  /* Industry Name Filter */
  <Grid item xs={12} md={4} lg={3}>
    <Paper elevation={0} sx={{ p: 2, bgcolor: 'white', height: '100%', borderRadius: 1 }}>
      <Typography variant="subtitle2" color="text.secondary" gutterBottom>
        Industry Name
      </Typography>
      <TextField
        name="industryName"
        placeholder="Search by industry"
        fullWidth
      >

```

```

        size="small"
        value={filters.industryName}
        onChange={handleChange}
    />
</Paper>
</Grid>

/* Principal Investigator Filter */
<Grid item xs={12} md={4} lg={3}>
    <Paper elevation={0} sx={{ p: 2, bgcolor: 'white', height: '100%', borderRadius: 1 }}>
        <Typography variant="subtitle2" color="text.secondary" gutterBottom>
            Principal Investigator
        </Typography>
        <TextField
            name="pi"
            placeholder="Search by PI name"
            fullWidth
            size="small"
            value={filters.pi}
            onChange={handleChange}
        />
    </Paper>
</Grid>

/* Co-Principal Investigator Filter */
<Grid item xs={12} md={4} lg={3}>
    <Paper elevation={0} sx={{ p: 2, bgcolor: 'white', height: '100%', borderRadius: 1 }}>
        <Typography variant="subtitle2" color="text.secondary" gutterBottom>
            Co-Principal Investigator
        </Typography>
        <TextField
            name="copi"
            placeholder="Search by Co-PI name"
            fullWidth
            size="small"
            value={filters.copi}
            onChange={handleChange}
        />
    </Paper>
</Grid>

/* Amount Range Filter */
<Grid item xs={12} md={8} lg={6}>

```

```

        <Paper elevation={0} sx={{ p: 2, bgcolor: 'white', borderRadius: 1
    }}>
            <Typography variant="subtitle2" color="text.secondary"
gutterBottom>
                Amount Range (₹)
            </Typography>
            <Box sx={{ display: 'flex', gap: 2 }}>
                <TextField
                    name="minAmount"
                    placeholder="Minimum"
                    type="number"
                    fullWidth
                    size="small"
                    value={filters.minAmount}
                    onChange={handleChange}
                    InputProps={{
                        startAdornment: <InputAdornment
position="start">₹</InputAdornment>,
                    }}
                />
                <Box sx={{ display: 'flex', alignItems: 'center', px: 1
}}>to</Box>
                <TextField
                    name="maxAmount"
                    placeholder="Maximum"
                    type="number"
                    fullWidth
                    size="small"
                    value={filters.maxAmount}
                    onChange={handleChange}
                    InputProps={{
                        startAdornment: <InputAdornment
position="start">₹</InputAdornment>,
                    }}
                />
            </Box>
        </Paper>
    </Grid>
</Grid>
</Paper>

{error && (
    <Box sx={{ mb: 2 }}>
        <Typography color="error">{error}</Typography>
    </Box>
)
}

```

```

        <Box sx={{ display: "flex", justifyContent: "space-between", mb: 2,
alignItems: "center" }}>
            <Typography variant="h6">
                {data.length} Projects Found
            </Typography>
            <Button
                variant="contained"
                color="success"
                onClick={downloadExcel}
                disabled={loading || data.length === 0}
            >
                Download Excel
            </Button>
        </Box>

        {loading ? (
            <Box sx={{ display: "flex", justifyContent: "center", my: 4 }}>
                <CircularProgress />
            </Box>
        ) : (
            <TableContainer component={Paper}>
                <Table>
                    <TableHead>
                        <TableRow sx={{ backgroundColor: '#1976d2' }}>
                            <TableCell sx={{ color: 'white', fontWeight: 'bold' }}>Industry Name</TableCell>
                            <TableCell sx={{ color: 'white', fontWeight: 'bold' }}>Project Title</TableCell>
                            <TableCell sx={{ color: 'white', fontWeight: 'bold' }}>Principal Investor</TableCell>
                            <TableCell sx={{ color: 'white', fontWeight: 'bold' }}>Co-Principal Investor</TableCell>
                            <TableCell sx={{ color: 'white', fontWeight: 'bold' }}>Academic Year</TableCell>
                            <TableCell sx={{ color: 'white', fontWeight: 'bold' }}>Amount Sanctioned</TableCell>
                            <TableCell sx={{ color: 'white', fontWeight: 'bold' }}>Amount Received</TableCell>
                        </TableRow>
                    </TableHead>
                    <TableBody>
                        {data.length > 0 ? (
                            data.map((row, index) => (
                                <TableRow key={index}>
                                    <TableCell>{row.industryName}</TableCell>
                                    <TableCell>{row.projectTitle}</TableCell>
                                    <TableCell>{row.pi}</TableCell>
                            </TableRow>
                        ))
                    </TableBody>
                </TableContainer>
            )
        )
    )
}

```

```

        <TableCell>{row.coPI}</TableCell>
        <TableCell>{row.academicYear}</TableCell>
        <TableCell>{row.amountSanctioned}</TableCell>
        <TableCell>{row.amountReceived}</TableCell>
      </TableRow>
    ))
)
) : (
<TableRow>
  <TableCell colSpan={7} align="center">
    No data available
  </TableCell>
</TableRow>
)
</TableBody>
</Table>
</TableContainer>
)
</Container>
</div>
);
};

export default ViewData;

```

App.jsx :

```

import Login from "./Pages/Login";
import Signup from "./Pages/Signup";
import Form from "./Pages/Form";
import ForgotPassword from "./Pages/ForgotPassword";

import {
  BrowserRouter as Router,
  Routes,
  Route,
  Navigate,
} from "react-router-dom";
import "./App.css";
import ViewData from "./Pages/ViewData";
import OTP from "./Pages/OTP";

```

```
const ProtectedRoute = ({ children }) => {
  const token = localStorage.getItem("token");
  if (!token) {
    return <Navigate to="/" replace />;
  }
  return children;
};

function App() {
  return (
    <Router>
      <Routes>
        <Route path="/" element={<Login />} />
        <Route path="/signup" element={<Signup />} />
        <Route path="/verifyotp" element={<OTP />} />
        <Route path="/forgotPsd" element={<ForgotPassword />} />

        <Route
          path="/form"
          element={
            <ProtectedRoute>
              <Form />
            </ProtectedRoute>
          }
        />

        <Route
          path="/view"
          element={
            <ProtectedRoute>
              <ViewData />
            </ProtectedRoute>
          }
        />

        <Route path="*" element={<Navigate to="/" replace />} />
      </Routes>
    </Router>
  );
}

export default App;
```

main.jsx :

```
import { StrictMode } from 'react'
import { createRoot } from 'react-dom/client'
import './index.css'
import App from './App.jsx'

createRoot(document.getElementById('root')).render(
  <StrictMode>
    <App />
  </StrictMode>,
)
```

Navbar.jsx :

```
import React, { useState, useRef, useEffect } from "react";
import { useNavigate, Link, useLocation } from "react-router-dom";
import "../CSS/navBar.css";

const NavBar = () => {
  const navigate = useNavigate();
  const location = useLocation();
  const [dropdownOpen, setDropdownOpen] = useState(false);
  const dropdownRef = useRef(null);
  const user = JSON.parse(localStorage.getItem("user"));

  const handleLogout = () => {
    localStorage.removeItem("token");
    localStorage.removeItem("user");
    navigate("/", { replace: true });
  };

  useEffect(() => {
    const handleClickOutside = (event) => {
      if (dropdownRef.current && !dropdownRef.current.contains(event.target)) {
        setDropdownOpen(false);
      }
    };
    document.addEventListener("mousedown", handleClickOutside);
    return () => document.removeEventListener("mousedown", handleClickOutside);
  }, []);
}
```

```

return (
  <nav className="navbar">
    <div className="nav-brand">
      <h2>Consultancy Services</h2>
    </div>

    <div className="nav-items">
      <div className="nav-links">
        <Link
          to="/form"
          className={`nav-link ${(
            location.pathname === "/form" ? "active" : ""
          )}`}
        >
          Data Entry
        </Link>
        <Link
          to="/view"
          className={`nav-link ${(
            location.pathname === "/view" ? "active" : ""
          )}`}
        >
          View Data
        </Link>
      </div>
    </div>

    <div className="user-menu" ref={dropdownRef}>
      <div
        className="user-icon-wrapper"
        onClick={() => setDropdownOpen(!dropdownOpen)}
      >
        {user?.email && <span className="user-email">{user.email}</span>}
        {dropdownOpen && (
          <div className="dropdown-content">
            <div className="user-info">
              <span>{user?.email}</span>
            </div>
            <button onClick={handleLogout} className="logout-btn">
              Logout
            </button>
          </div>
        )}
      </div>
    </div>
  </nav>
);

export default NavBar;

```

api_communicator.jsx :

```
import axios from "axios";

const API_BASE_URL = "http://localhost:8000/api";

export const loginUser = async (credentials) => {
    try {
        const response = await axios.post(` ${API_BASE_URL} /login`, {
            email: credentials.email,
            password: credentials.psd
        });

        if (response.status === 200) {
            const { token, user } = response.data;
            localStorage.setItem('token', token);
            localStorage.setItem('user', JSON.stringify(user));
            return { success: true, data: response.data };
        }
    } catch (error) {
        return {
            success: false,
            error: error.response?.data?.message || "An error occurred during login"
        };
    }
};

export const registerUser = async (credentials) => {
    try {
        const response = await axios.post(` ${API_BASE_URL} /register`, {
            name: credentials.name,
            email: credentials.email,
            password: credentials.psd
        });

        if (response.status === 201) {
            return { success: true, data: response.data };
        }
    } catch (error) {
        return {
            success: false,
```

```
        error: error.response?.data?.message || "An error occurred during
registration"
    );
}
};

export const forgotPsd = async (credentials) => {
    try {
        const response = await axios.put(` ${API_BASE_URL}/forgotPsd`, {
            email: credentials.email,
            psd: credentials.psd
        });

        if (response.status === 200) {
            return { success: true, data: response.data };
        }
    } catch (error) {
        return {
            success: false,
            error: error.response?.data?.message || "An error occurred during
registration"
        };
    }
};

export const formsubmission = async (formData) => {
    try {
        const token = localStorage.getItem('token');
        const response = await axios.post(
            "http://localhost:8000/api/submit",
            formData,
            {
                headers: {
                    "Content-Type": "multipart/form-data",
                    "Authorization": `Bearer ${token}`
                },
            }
        );
        return response;
    } catch (error) {
        return {
            success: false,
            error: error.response?.data?.message || "An error occurred during
form submission"
        };
    }
};
```

```

    }
};

export const generateOTP = async (email) => {
  try {
    const response = await axios.post(` ${API_BASE_URL}/generateOTP`, { email });
    if (response.status === 200) {
      return { success: true, message: response.data.message };
    }
  } catch (error) {
    return {
      success: false,
      error: error.response?.data?.message || "Failed to send OTP",
    };
  }
};

export const verifyOtp = async (data) => {
  try {
    const response = await axios.post(` ${API_BASE_URL}/verifyOTP`, data);
    if (response.status === 200) {
      return {
        success: true,
        message: response.data.message,
        status: 200,
      };
    }
  } catch (error) {
    return {
      success: false,
      error: error.response?.data?.message || "Failed to verify OTP",
    };
  }
};

```

Index.html:

```

<!doctype html>
<html lang="en">
  <head>

```

```
<meta charset="UTF-8" />
<link rel="icon" type="image/svg+xml" href="/vite.svg" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<title>Vite + React</title>
</head>
<body>
  <div id="root"></div>
  <script type="module" src="/src/main.jsx"></script>
</body>
</html>
```

CSS Files :

Login.css :

```
.login_container {
  display: flex;
  flex-direction: row;
  width: 60%;
  height: 80vh;
  margin: auto;
  margin-top: 50px;
  background-color: aqua;
  border-radius: 50px;
  overflow: hidden;
  transition: box-shadow .5s ease-in-out;
}

.login_container:hover{
  box-shadow: 5px 5px 20px rgb(0, 0, 0);
}

.brand {
  width: 150%; /* Adjust width for better balance */
  background-image: url("../assets/login_img.png");
  background-size: cover;
  background-position: center;
  background-repeat: no-repeat;
}

.login {
```

```
width: 100%;  
display: flex;  
justify-content: center;  
align-items: center;  
background-color: rgba(82, 82, 78, 0.688);  
  
}  
  
.login form {  
    display: flex;  
    flex-direction: column;  
    align-items: center;  
  
}  
.login form h2 {  
    padding: 0px 50px;  
    background-color: white;  
    border-radius: 10px;  
    box-shadow: 2px 2px 2px rgb(0, 0, 0);  
  
}  
  
.login input {  
    margin: 10px 0; /* Spacing between inputs */  
    padding: 10px;  
    border: none;  
    border-radius: 5px;  
    background-color: white;  
    border: 1px solid rgb(0, 0, 0);  
    width: 250px;  
}  
.login input[type="submit"] {  
    width: 100%;  
    background-color: rgba(0, 0, 0, 0.692);  
    color: white;  
    font-weight: bold;  
    cursor: pointer;  
    transition: background 0.2s ease-out;  
  
}  
  
.login input[type="submit"]:hover {  
    background-color: rgba(255, 255, 255, 0.344);  
}
```

Navbar.css :

```
.navbar {  
  display: flex;  
  justify-content: space-between;  
  align-items: center;  
  padding: 1rem 2rem;  
  background-color: #fff;  
  box-shadow: 0 2px 4px rgba(0,0,0,0.1);  
  position: sticky;  
  top: 0;  
  z-index: 1000;  
}  
  
.nav-brand h2 {  
  margin: 0;  
  color: #333;  
  font-size: 1.5rem;  
}  
  
.nav-items {  
  display: flex;  
}  
  
.nav-links {  
  display: flex;  
  gap: 2;  
}  
  
.nav-link {  
  text-decoration: none;  
  color: #333;  
  font-weight: 500;  
  padding: 0.5rem 1rem;  
  border-radius: 4px;  
  transition: all 0.3s ease;  
}  
  
.nav-link:hover {  
  background-color: #f0f0f0;  
}  
  
.nav-link.active {  
  background-color: #007bff;  
  color: white;  
}
```

```
.user-menu {
  position: relative;
}

.user-icon-wrapper {
  display: flex;
  align-items: center;
  gap: 0.5rem;
  cursor: pointer;
  padding: 0.5rem;
  border-radius: 4px;
  transition: background-color 0.3s;
}

.user-icon-wrapper:hover {
  background-color: #f0f0f0;
}

.user-icon {
  font-size: 24px;
  color: #333;
}

.user-email {
  font-size: 0.9rem;
  color: #666;
}

.dropdown-content {
  position: absolute;
  right: 0;
  top: 100%;
  background-color: #fff;
  min-width: 220px;
  box-shadow: 0 2px 10px rgba(0,0,0,0.1);
  border-radius: 4px;
  padding: 0.5rem;
  margin-top: 0.5rem;
}

.user-info {
  display: flex;
  align-items: center;
  gap: 0.5rem;
  padding: 0.75rem;
  border-bottom: 1px solid #eee;
  color: #333;
```

```
}

.user-info .material-icons {
  font-size: 20px;
  color: #666;
}

.logout-btn {
  width: 100%;
  display: flex;
  align-items: center;
  gap: 0.5rem;
  padding: 0.75rem;
  margin-top: 0.5rem;
  border: none;
  background-color: transparent;
  color: #dc3545;
  cursor: pointer;
  transition: background-color 0.3s;
  border-radius: 4px;
}

.logout-btn:hover {
  background-color: #fff5f5;
}

.logout-btn .material-icons {
  font-size: 20px;
}

@media (max-width: 768px) {
  .navbar {
    padding: 1rem;
  }

  .nav-brand h2 {
    font-size: 1.2rem;
  }

  .nav-links {
    gap: 1rem;
  }

  .user-email {
    display: none;
  }
}
```

Backend Code :

UserController.js :

```
import User from "../Model/modelSchema.js";
import jwt from "jsonwebtoken";
import multer from "multer";
import path from "path";
import bcrypt from "bcryptjs";
import fs from "fs";
import { google } from "googleapis";
import { createFolder, uploadFile } from '../Configuration/googleDriveSetup.js';
import dotenv from 'dotenv';
import nodemailer from 'nodemailer';

dotenv.config();

export const getUserEmailRoute = async(req,res)=>{
    const authHeader = req.headers.authorization;

    if(!authHeader || !authHeader.startsWith("Bearer")){
        return res.status(401).json({error: "Authorization Token missing"});
    }

    const token = authHeader.split(" ")[1];

    try {
        const decoded = jwt.verify(token, process.env.JWT_SECRET);
        const userId = decoded.id;

        const user = await User.findById(userId).select("email");

        if (!user) {
            return res.status(404).json({error:"user not found"});
        }

        return res.status(200).json({message: user.email});
    } catch (error) {
        console.error("Error decoding token or fetching user:", error);
        return res.status(500).json({error:"Something went wrong"});
    }
}
```

```
}

export const login = async (req, res) => {
  try {
    const { email, password } = req.body;

    if (!email || !password) {
      return res.status(400).json({
        success: false,
        message: "Please provide email and password",
      })
    });

    const user = await User.findOne({ email });
    if (!user) {
      return res.status(401).json({
        success: false,
        message: "Invalid credentials",
      });
    }

    const isMatch = await user.matchPassword(password);
    if (!isMatch) {
      return res.status(401).json({
        success: false,
        message: "Invalid credentials",
      });
    }

    const token = jwt.sign({ id: user._id }, process.env.JWT_SECRET, {
      expiresIn: "1h",
    });

    res.status(200).json({
      success: true,
      token,
      user: {
        id: user._id,
        email: user.email,
      },
    });
  } catch (error) {
    res.status(500).json({
      success: false,
      message: "Error in login",
      error: error.message,
    });
  }
}
```

```

    });
}

};

export const register = async (req, res) => {
  try {
    const { name, email, password } = req.body;

    const userExists = await User.findOne({ email });
    if (userExists) {
      return res.status(400).json({
        success: false,
        message: "User already exists",
      });
    }

    const user = await User.create({
      name,
      email,
      password,
    });

    res.status(201).json({
      success: true,
      message: "User created successfully",
      user: {
        id: user._id,
        email: user.email,
      },
    });
  } catch (error) {
    res.status(500).json({
      success: false,
      message: "Error in registration",
      error: error.message,
    });
  }
};

export const forgotPsd = async(req,res)=>{
  const {email,psd} = req.body;
  try{
    const user = await User.findOne({ email :email });
    if (!user) {
      return res.status(404).json({ success: false, message: "User not found" });
    }
  }
}

```

```
user.password = psd;
await user.save();
res.status(200).json({ success: true, message: "Password updated successfully"
});
}

catch(error){
  console.log(error);
  res.status(500).json({message:error});
}

};

const otpStore = {};

export const generateOTP = async (req, res) => {
try {
  const {email} = req.body;
  if (!email) {
    return res.status(400).json({ error: "Invalid authorization header" });
  }

  const transporter = nodemailer.createTransport({
    service: "gmail",
    auth: {
      user: process.env.EMAIL_USER,
      pass: process.env.EMAIL_PASS,
    },
  });

  const otp = Math.floor(100000 + Math.random() * 900000).toString();
  otpStore[email] = { otp, expiresAt: Date.now() + 5 * 60 * 1000 };

  const mailOptions = {
    from: process.env.EMAIL_USER,
    to: email,
    subject: "Your OTP Code",
    html: `<h3>Your OTP is: <b>${otp}</b></h3><p>It is valid for 5
minutes.</p>`,
  };

  await transporter.sendMail(mailOptions);
  res.json({ message: "OTP sent successfully" });
} catch (error) {
```

```

        console.error("Error in generateOTP:", error);
        return res.status(500).json({ error: "Failed to send OTP" });
    }
};

export const verifyOtp = async (req, res) => {
    const { email, otp } = req.body;

    if (!email || !otp) {
        return res.status(400).json({ error: "Email and OTP are required" });
    }

    const record = otpStore[email];
    if (!record) {
        return res.status(400).json({ error: "OTP not found" });
    }

    if (Date.now() > record.expiresAt) {
        delete otpStore[email];
        return res.status(400).json({ error: "OTP expired" });
    }

    if (record.otp !== otp) {
        return res.status(400).json({ error: "Invalid OTP" });
    }

    delete otpStore[email];
    res.json({ message: "OTP verified successfully" });
};

const getUserEmail = async(authHeader)=>{
    if(!authHeader || !authHeader.startsWith("Bearer")){
        throw new Error("Authorization token missing or invalid");
    }

    const token = authHeader.split(" ")[1];

    try {
        const decoded = jwt.verify(token, process.env.JWT_SECRET); // ✅ decode token
        const userId = decoded.id;

        const user = await User.findById(userId).select("email"); // Fetch only email

        if (!user) {

```

```

        throw new Error("User not found");
    }

    return user.email;
} catch (error) {
    console.error("Error decoding token or fetching user:", error);
    throw new Error("Error in fetching email");
}
}

const uploadDir = "uploads";
if (!fs.existsSync(uploadDir)) {
    fs.mkdirSync(uploadDir);
}

const storage = multer.diskStorage({
    destination: (req, file, cb) => {
        const projectTitle = req.body.projectTitle || "defaultProject";
        const projectFolder = path.join(uploadDir, projectTitle);
        if (!fs.existsSync(projectFolder)) {
            fs.mkdirSync(projectFolder, { recursive: true });
        }
        cb(null, projectFolder);
    },
    filename: (req, file, cb) => {
        cb(null, `${Date.now()}-${file.originalname}`);
    },
});
});

const fileFilter = (req, file, cb) => {
    if (file.fieldname === "billProof") {
        const allowedTypes = [ ".pdf", ".jpg", ".jpeg", ".png" ];
        const ext = path.extname(file.originalname).toLowerCase();
        if (allowedTypes.includes(ext)) {
            cb(null, true);
        } else {
            cb(new Error("Invalid file type for bill proof. Only PDF, JPG, JPEG, PNG allowed."));
        }
    } else if (file.fieldname === "agreement") {
        const ext = path.extname(file.originalname).toLowerCase();
        if (ext === ".pdf") {
            cb(null, true);
        } else {
            cb(new Error("Invalid file type for signed agreement. Only PDF allowed."));
        }
    }
}

```

```

    } else {
      cb(null, false);
    }
};

const upload = multer({
  storage,
  fileFilter,
}).fields([
  { name: "billProof", maxCount: 1 },
  { name: "agreement", maxCount: 1 },
]);

export const handleSubmit = async (req, res) => {
  upload(req, res, async (err) => {
    if (err) {
      return res.status(400).json({ error: err.message });
    }

    const {
      industryName,
      projectDuration,
      projectTitle,
      pi,
      coPI,
      academicYear,
      amountSanctioned,
      amountReceived,
      billDetails,
      studentDetails,
      projectSummary,
    } = req.body;

    if (!req.files || !req.files.billProof || !req.files.agreement) {
      return res.status(400).json({ error: "Both Bill Proof and Signed Agreement files are required." });
    }

    const billProofFile = req.files.billProof[0];
    const agreementFile = req.files.agreement[0];

    try {
      const driveFolderId = await createFolder(projectTitle);
      console.log("Created Google Drive folder with ID:", driveFolderId);

      const billProofDriveId = await uploadFile(
        billProofFile.path,

```

```

    billProofFile.filename,
    billProofFile.mimetype,
    driveFolderId
);

const agreementDriveId = await uploadFile(
    agreementFile.path,
    agreementFile.filename,
    agreementFile.mimetype,
    driveFolderId
);

const billProofLink =
`https://drive.google.com/file/d/${billProofDriveId}/view`;
const agreementLink =
`https://drive.google.com/file/d/${agreementDriveId}/view`;

const auth = new google.auth.GoogleAuth({
    keyFile: "C:/Users/sriva/OneDrive/Desktop/sem/sem6/Internet
Programming/Consultancy-Service/Backend/Credentials/wise-bongo-451704-r2-11c606e
1ced8.json",
    scopes: ["https://www.googleapis.com/auth/spreadsheets"],
});
const client = await auth.getClient();
const sheets = google.sheets({ version: "v4", auth: client });

const spreadsheetId = process.env.GOOGLE_SPREADSHEET_ID;
const range = "Sheet1!A1";

const newRow = [
    industryName,
    projectDuration,
    projectTitle,
    pi,
    coPI,
    academicYear,
    amountSanctioned,
    amountReceived,
    billDetails,
    billProofLink,
    agreementLink,
    studentDetails,
    projectSummary,
];
await sheets.spreadsheets.values.append({
    spreadsheetId,
    range,
    values: [newRow]
});

```

```

        range,
        valueInputOption: "RAW",
        resource: {
          values: [newRow],
        },
      });
    }

    const userEmail = await getUserEmail(req.headers.authorization)

    await notifyUser(userEmail, {
      industryName,
      projectDuration,
      projectTitle,
      pi,
      coPI,
      academicYear,
      amountSanctioned,
      amountReceived,
      studentDetails,
      projectSummary,
    });

    res.status(200).json({
      message: "Data successfully appended to Google Sheet and files uploaded to Google Drive.",
      billProofLink,
      agreementLink,
    });
  } catch (error) {
    console.error("Error processing submission:", error);
    res.status(500).json({ error: "An error occurred while processing the submission." });
  }
}
);
};

export const notifyUser = async(toEmail, data) => {
  const {
    industryName,
    projectDuration,
    projectTitle,
    pi,
    coPI,
    academicYear,
    amountSanctioned,
    amountReceived,
    studentDetails,
  }

```

```

    projectSummary,
} = data;

const transporter = nodemailer.createTransport({
  service: 'gmail',
  auth: {
    user: process.env.EMAIL_USER,
    pass: process.env.EMAIL_PASS
  }
});

const mailOptions = {
  from: process.env.EMAIL_USER,
  to: toEmail,
  subject: `📝 New Consultancy Project Entry: ${projectTitle}`,
  html: `
    <h3>New Project Submitted</h3>
    <p><strong>Industry Name:</strong> ${industryName}</p>
    <p><strong>Project Title:</strong> ${projectTitle}</p>
    <p><strong>PI:</strong> ${pi}</p>
    <p><strong>Co-PI:</strong> ${coPI}</p>
    <p><strong>Academic Year:</strong> ${academicYear}</p>
    <p><strong>Duration:</strong> ${projectDuration}</p>
    <p><strong>Sanctioned Amount:</strong> ₹${amountSanctioned}</p>
    <p><strong>Received Amount:</strong> ₹${amountReceived}</p>
    <p><strong>Student Details:</strong> ${studentDetails}</p>
    <p><strong>Project Summary:</strong> ${projectSummary}</p>
  `;
};

try {
  const info = await transporter.sendMail(mailOptions);
  console.log("Notification sent successfully:", info.messageId);
} catch (error) {
  console.log("An error occurred", error);
}

export const getSubmissions = async (req, res) => {

  try {
    const auth = new google.auth.GoogleAuth({
      keyFile: "C:/Users/sriva/OneDrive/Desktop/sem/sem6/Internet
Programming/Consultancy-Service/Backend/Credentials/wise-bongo-451704-r2-11c606e
1ced8.json",
      scopes: ["https://www.googleapis.com/auth/spreadsheets.readonly"],
    });
  }
}

```

```

const client = await auth.getClient();
const sheets = google.sheets({ version: "v4", auth: client });

const spreadsheetId = process.env.GOOGLE_SPREADSHEET_ID;
const range = "Sheet1!A2:M"; // Skip header row (assuming headers are in row
1)

const response = await sheets.spreadsheets.values.get({
  spreadsheetId,
  range,
});

const rows = response.data.values;

if (!rows || rows.length === 0) {
  return res.status(200).json({ data: [], message: "No data found in the
sheet." });
}

const formattedData = rows.map((row) => ({
  industryName: row[0] || "",
  projectDuration: row[1] || "",
  projectTitle: row[2] || "",
  pi: row[3] || "",
  coPI: row[4] || "",
  academicYear: row[5] || "",
  amountSanctioned: row[6] || "",
  amountReceived: row[7] || "",
  billDetails: row[8] || "",
  billProofLink: row[9] || "",
  agreementLink: row[10] || "",
  studentDetails: row[11] || "",
  projectSummary: row[12] || "",
})); 

res.status(200).json({ data: formattedData });
} catch (error) {
  console.error("Error fetching data from Google Sheet:", error);
  res.status(500).json({ error: "An error occurred while fetching data from
the sheet." });
}
};

export const getByPI = async (req, res) => {
  const { pi } = req.params;

  try {

```

```

const auth = new google.auth.GoogleAuth({
  keyFile: "C:/Users/sriva/OneDrive/Desktop/sem/sem6/Internet
Programming/Consultancy-Service/Backend/Credentials/wise-bongo-451704-r2-11c606e
1ced8.json",
  scopes: [ "https://www.googleapis.com/auth/spreadsheets.readonly" ],
});

const client = await auth.getClient();
const sheets = google.sheets({ version: "v4", auth: client });

const spreadsheetId = process.env.GOOGLE_SPREADSHEET_ID;
const range = "Sheet1!A2:M";

const response = await sheets.spreadsheets.values.get({
  spreadsheetId,
  range,
});

const rows = response.data.values;

if (!rows || rows.length === 0) {
  return res.status(200).json({ data: [], message: "No data found in the
sheet." });
}

let formattedData = rows.map((row) => ({
  industryName: row[0] || "",
  projectDuration: row[1] || "",
  projectTitle: row[2] || "",
  pi: row[3] || "",
  coPI: row[4] || "",
  academicYear: row[5] || "",
  amountSanctioned: row[6] || "",
  amountReceived: row[7] || "",
  billDetails: row[8] || "",
  billProofLink: row[9] || "",
  agreementLink: row[10] || "",
  studentDetails: row[11] || "",
  projectSummary: row[12] || "",
})); 

const filteredData = formattedData.filter(
  (item) => item.pi.toLowerCase().includes(pi.toLowerCase()))
);

res.status(200).json({ data: filteredData });
} catch (error) {

```

```

        console.error("Error filtering data by PI:", error);
        res.status(500).json({ error: "An error occurred while fetching data by PI." });
    }
};

export const getByCoPI = async (req, res) => {
    const { coPI } = req.params;

    try {
        const auth = new google.auth.GoogleAuth({
            keyFile: "C:/Users/sriva/OneDrive/Desktop/sem/sem6/Internet
Programming/Consultancy-Service/Backend/Credentials/wise-bongo-451704-r2-11c606e
1ced8.json",
            scopes: [ "https://www.googleapis.com/auth/spreadsheets.readonly" ],
        });

        const client = await auth.getClient();
        const sheets = google.sheets({ version: "v4", auth: client });

        const spreadsheetId = process.env.GOOGLE_SPREADSHEET_ID;
        const range = "Sheet1!A2:M"; // Skip header

        const response = await sheets.spreadsheets.values.get({
            spreadsheetId,
            range,
        });

        const rows = response.data.values;

        if (!rows || rows.length === 0) {
            return res.status(200).json({ data: [], message: "No data found in the
sheet." });
        }

        const formattedData = rows.map((row) => ({
            industryName: row[0] || "",
            projectDuration: row[1] || "",
            projectTitle: row[2] || "",
            pi: row[3] || "",
            coPI: row[4] || "",
            academicYear: row[5] || "",
            amountSanctioned: row[6] || "",
            amountReceived: row[7] || "",
            billDetails: row[8] || "",
            billProofLink: row[9] || "",
        }));
    }
};

```

```

        agreementLink: row[10] || "",
        studentDetails: row[11] || "",
        projectSummary: row[12] || "",
    )));
}

const filteredData = formattedData.filter((entry) =>
    entry.coPI.toLowerCase().includes(coPI.toLowerCase())
);

res.status(200).json({ data: filteredData });
} catch (error) {
    console.error("Error filtering by Co-PI:", error);
    res.status(500).json({ error: "An error occurred while filtering by Co-PI." });
}
};

export const getBySanctionedAmountRange = async (req, res) => {
    const { minAmount, maxAmount } = req.params;

    if (!minAmount || !maxAmount) {
        return res.status(400).json({ error: "Please provide both minAmount and maxAmount" });
    }

    try {

        const auth = new google.auth.GoogleAuth({
            keyFile: "C:/Users/sriva/OneDrive/Desktop/sem/sem6/Internet
Programming/Consultancy-Service/Backend/Credentials/wise-bongo-451704-r2-11c606e
1ced8.json",
            scopes: [ "https://www.googleapis.com/auth/spreadsheets.readonly" ],
        });

        const client = await auth.getClient();
        const sheets = google.sheets({ version: "v4", auth: client });

        const spreadsheetId = process.env.GOOGLE_SPREADSHEET_ID;
        const range = "Sheet1!A2:M";

        const response = await sheets.spreadsheets.values.get({
            spreadsheetId,
            range,
        });

        const rows = response.data.values;
    }
}

```

```

    if (!rows || rows.length === 0) {
      return res.status(200).json({ data: [], message: "No data found in the sheet." });
    }

    // Format the data from the sheet
    const formattedData = rows.map((row) => ({
      industryName: row[0] || "",
      projectDuration: row[1] || "",
      projectTitle: row[2] || "",
      pi: row[3] || "",
      coPI: row[4] || "",
      academicYear: row[5] || "",
      amountSanctioned: row[6] || "",
      amountReceived: row[7] || "",
      billDetails: row[8] || "",
      billProofLink: row[9] || "",
      agreementLink: row[10] || "",
      studentDetails: row[11] || "",
      projectSummary: row[12] || "",
    }));
  }

  const filteredData = formattedData.filter((item) => {
    const sanctionedAmount =
    parseFloat(item.amountSanctioned.replace(/[^0-9.]/g, ''));

    return sanctionedAmount >= parseFloat(minAmount) && sanctionedAmount <=
    parseFloat(maxAmount);
  });

  res.status(200).json({ data: filteredData });

} catch (error) {
  console.error("Error fetching or filtering data:", error);
  res.status(500).json({ error: "An error occurred while fetching or filtering data." });
}

export const getByIndustryName = async (req, res) => {
  const { industryName } = req.params;

  try {
    const auth = new google.auth.GoogleAuth({

```

```

    keyFile: "C:/Users/sriva/OneDrive/Desktop/sem/sem6/Internet
Programming/Consultancy-Service/Backend/Credentials/wise-bongo-451704-r2-11c606e
1ced8.json",
    scopes: [ "https://www.googleapis.com/auth/spreadsheets.readonly" ],
});

const client = await auth.getClient();
const sheets = google.sheets({ version: "v4", auth: client });

const spreadsheetId = process.env.GOOGLE_SPREADSHEET_ID;
const range = "Sheet1!A2:M";

const response = await sheets.spreadsheets.values.get({
  spreadsheetId,
  range,
});

const rows = response.data.values;

if (!rows || rows.length === 0) {
  return res.status(200).json({ data: [], message: "No data found in the
sheet." });
}

const formattedData = rows.map((row) => ({
  industryName: row[0] || "",
  projectDuration: row[1] || "",
  projectTitle: row[2] || "",
  pi: row[3] || "",
  coPI: row[4] || "",
  academicYear: row[5] || "",
  amountSanctioned: row[6] || "",
  amountReceived: row[7] || "",
  billDetails: row[8] || "",
  billProofLink: row[9] || "",
  agreementLink: row[10] || "",
  studentDetails: row[11] || "",
  projectSummary: row[12] || "",
}));


const filteredData = formattedData.filter((entry) => {
  // Ensure industryName exists before calling toLowerCase()
  return entry.industryName &&
entry.industryName.toLowerCase().includes(industryName.toLowerCase());
});

res.status(200).json({ data: filteredData });

```

```

} catch (error) {
  console.error("Error filtering by Industry Name:", error); // Updated error message
  res.status(500).json({ error: "An error occurred while filtering by Industry Name." }); // Updated error message
}
};

```

modelSchema.js :

```

import mongoose from "mongoose";
import bcrypt from "bcryptjs";

const userSchema = new mongoose.Schema({
  name: {
    type: String,
    required: [true, "Please provide a name"],
    trim: true
  },
  email: {
    type: String,
    required: [true, "Please provide an email"],
    unique: true,
  },
  password: {
    type: String,
    required: [true, "Please provide a password"],
    minlength: 6
  }
}, { timestamps: true });

userSchema.pre('save', async function(next) {
  if (!this.isModified('password')) return next();
  this.password = await bcrypt.hash(this.password, 12);
  next();
});

userSchema.methods.matchPassword = async function(enteredPassword) {
  return await bcrypt.compare(enteredPassword, this.password);
}

```

```

};

const User = mongoose.model('User', userSchema);

export default User;

```

Routes -> index.js :

```

import express from 'express';
import { handleSubmit, getUserEmailRoute, login, generateOTP, verifyOtp,
register, forgotPsd, getSubmissions, getByPI, getByCoPI, getBySanctionedAmountRange,
getByIndustryName } from '../Controller/userController.js';

const router = express.Router();
router.post('/login', login);
router.post('/register', register);
router.post('/submit', handleSubmit);
router.put("/forgotPsd", forgotPsd);
router.get("/user/email", getUserEmailRoute);
router.get("/getData", getSubmissions);
router.get("/getDataByPI/:pi", getByPI);
router.get("/getDataBycoPI/:coPI", getByCoPI);
router.get("/getDataByIndustryName/:industryName", getByIndustryName);
router.post("/generateOTP", generateOTP);
router.post("/verifyOTP", verifyOtp);

router.get("/getDataBySanctionAmt/:minAmount/:maxAmount", getBySanctionedAmountRange);

export default router;

```

server.js :

```

import express from 'express';
import cors from 'cors';
import dotenv from 'dotenv';
import routes from './Route/index.js';
import bodyParser from 'body-parser';
import morgan from 'morgan';
import mongoose from 'mongoose';

const app = express();

dotenv.config();

```

```
app.use(cors({origin: "http://localhost:5173", credentials: true}));
app.use(bodyParser.json());
app.use(morgan('dev'));

app.use('/api', routes);

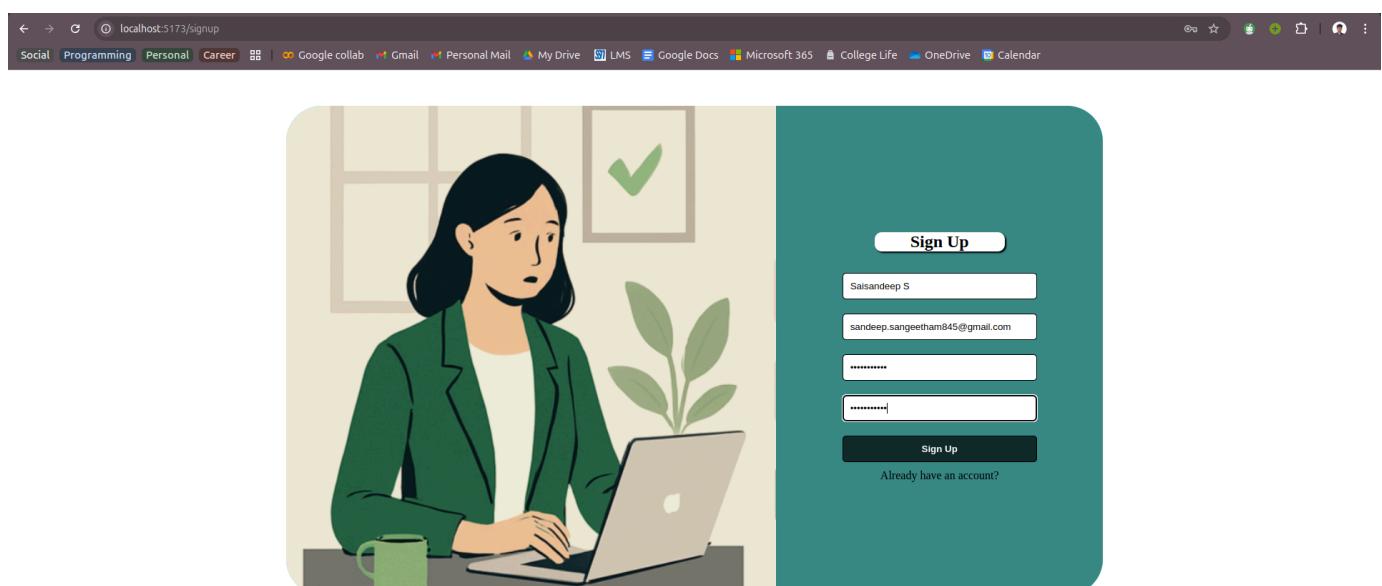
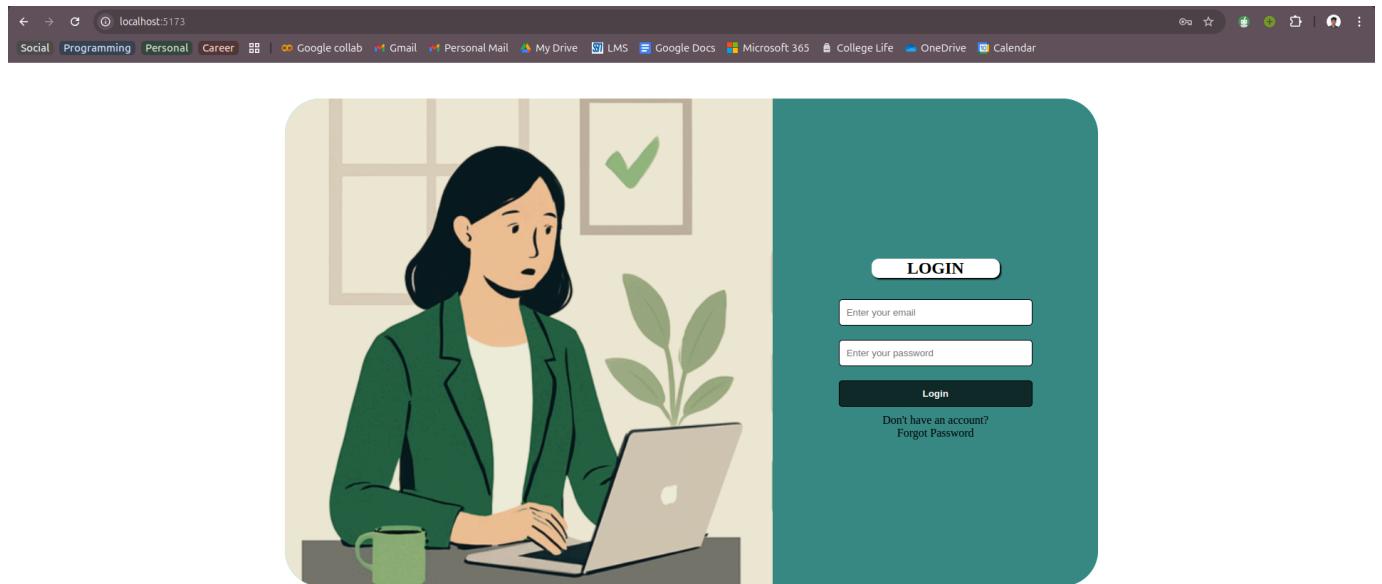
app.use((err, req, res, next) => {
  console.error(err.stack);
  res.status(500).json({ message: 'Something broke!' });
});

const PORT = process.env.PORT || 5000;
const MongoURI = process.env.MONGO_URI;

mongoose.connect(MongoURI)
  .then(() => {
    console.log("MongoDB connected successfully");
    app.listen(PORT, () => {
      console.log(`Server is running on port ${PORT}`);
    });
  })
  .catch((err) => {
    console.error('MongoDB connection error:', err);
  });

export default app;
```

Outputs :



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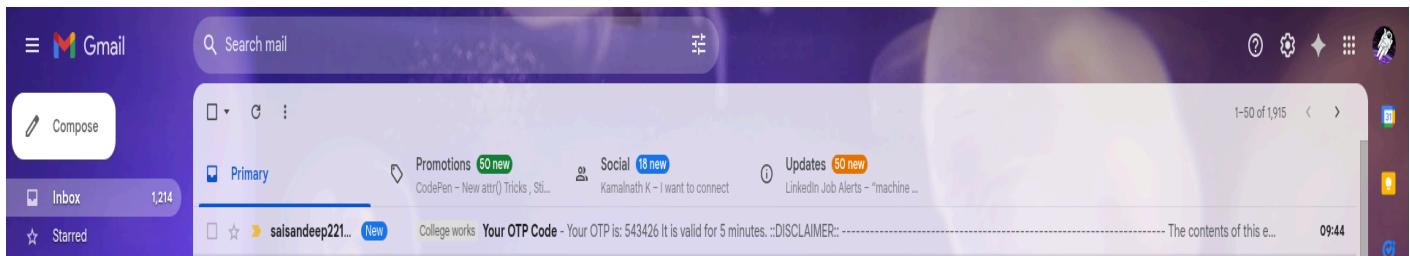


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Enter your email to receive a verification code

Email Address *

▶ SEND OTP



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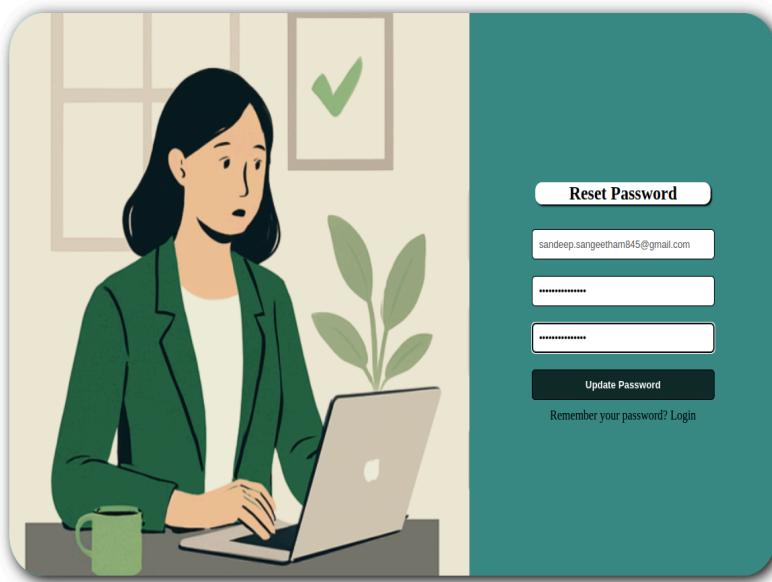
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sandeep.sangeetham845@gmail.com

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Consultancy Project Details

Industry Name * SJ Robotics

Project Duration (in months) * 6 months

Project Title * Automated Arm Lift Robot

Principal Investigator * Saisandeep Sangeetham

Co-Principal Investigator Srivathsan S

Academic Year * 3rd Year

Amount Sanctioned (₹) * ₹ 50000

Amount Received (₹) * ₹ 44998

Bill Settlement Details *

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Consultancy Services

44998

Bill Settlement Details *
Invoice for the bill settlement- (10-04-2025)

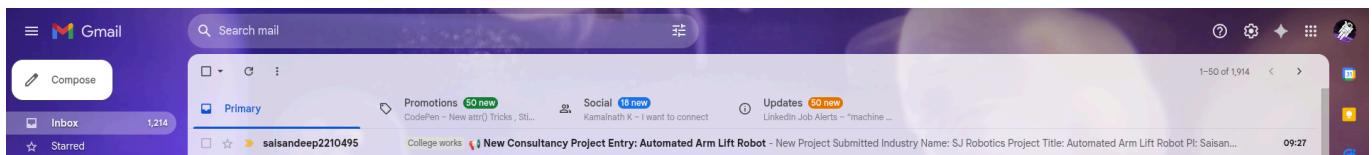
Bill Proof Upload:
 Bill Proof.pdf
Selected file: Bill Proof.pdf

Signed Agreement Upload:
 Signed Agreement.pdf
Selected file: Signed Agreement.pdf

Student Details *
Saisandeep Sangeetham- 3122 22 5001 119
Srivathsan S - 3122 22 5001 141

Project Summary (100 words) *
This Project is a good project
30/500 characters

SUBMIT



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saisandeep2210495

New Consultancy Project Entry: Automated Arm Lift Robot

saisandeep2210495@ssn.edu.in to me.

New Project Submitted

Industry Name: SJ Robotics

Project Title: Automated Arm Lift Robot

PI: Saisandeep Sangeetham

Co-PI: Srivathsan S

Academic Year: 3rd Year

Duration: 6

Sanctioned Amount: ₹50000

Received Amount: ₹44998

Student Details: Saisandeep Sangeetham- 3122 22 5001 119 Srivathsan S - 3122 22 5001 141

Project Summary: This Project is a good project

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Choose File Bill Proof.pdf

Signed Agreement Upload:

Choose File Signed Agreement.pdf

Student Details *

Project Summary (100 words) *

0/500 characters

SUBMIT

Form submitted successfully

The screenshot shows a Google Drive interface with a dark theme. The left sidebar includes links for Home, Activity, Workspaces, My Drive (selected), Shared drives, Shared with me, Recent, Starred, Spam, Trash, and Storage. The main area displays a list of files and folders under 'My Drive > Consultancy Service'. The list includes:

Name	Owner	Last modified	File size	More
"Innovative Cloud Migration"	consultancyservice	Apr 10, 2025	—	⋮
"Innovative Cloud Migration"	consultancyservice	Apr 15, 2025	—	⋮
"Innovative Cloud Migration"	consultancyservice	Apr 11, 2025	—	⋮
"Innovative Cloud Migration"	consultancyservice	Apr 15, 2025	—	⋮
"Innovative Cloud Migration"	consultancyservice	Apr 15, 2025	—	⋮
"Innovative Cloud Migration"	consultancyservice	Apr 15, 2025	—	⋮
"Innovative Cloud Migration"	consultancyservice	Apr 15, 2025	—	⋮
"Innovative Cloud Migration"	consultancyservice	Apr 15, 2025	—	⋮
"Assistive Glasses For Visually Impaired People"	consultancyservice	Apr 15, 2025	—	⋮
"Assistive Glasses For Visually Impaired People"	consultancyservice	Apr 15, 2025	—	⋮
Automated Arm Lift Robot	consultancyservice	9:27 AM	—	⋮
Google Drive Folder: Automated Arm Lift Robot				⋮
Development of Humanoid Robot	consultancyservice	Apr 11, 2025	—	⋮
Enhancing Rocketlane User Interface	consultancyservice	Apr 14, 2025	—	⋮

A red box highlights the folder 'Automated Arm Lift Robot' in the list.

drive.google.com/drive/u/0/folders/1YWAR8sgS0vslYfKfqElWkTQOSHNUZ

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Drive Search in Drive SSSN

+ New Type People Modified Source

My Drive > Consultancy Service > Automated Arm Lift Rob... ▾

Name	Owner	Last modified	File size	⋮
1744775835975-Bill Proof.pdf	consultancyservice	9:27 AM	106 KB	⋮
1744775835977-Signed Agreement.pdf	consultancyservice	9:27 AM	164 KB	⋮

Home Activity Workspaces My Drive Shared drives Shared with me Recent Starred Spam Trash Storage 82.66 GB used

docs.google.com/spreadsheets/d/11LLrQ8Ylo7Doy2zVn3b8WNL2Zdyh6FeHWE7MNLnM/edit?gid=0#gid=0

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62:62 SJ Robotics

A	B	C	D	E	F	G	H	I	J	K	L	M	
43	TechSavvy Solutions	6 AI-Based Image Recognition for Medical Diagnosis	Sri Ramesh	Divya Desai	4th Year	150000	145000	Invoice paid on * https://drive.goo...	https://drive.goo...	Rajesh - 312225001190		Image recog	
44	SmartFarm Solutions	4 AI-powered Precision Agriculture	Dr. Meena	Dr. Vijay	2nd Year	65000	60000	Invoice paid on * https://drive.goo...	https://drive.goo...	Arun - 312225001109		AI-based pr	
45	MediTech Labs	5 Telemedicine Platform Development	Dr. Leela	Dr. Prakash	Final Year	110000	105000	Invoice paid on * https://drive.goo...	https://drive.goo...	Vikram - 312225001165		Telemedici	
46	AI CyberSec	7 AI-powered Cybersecurity System	Dr. Varun	-	3rd Year	180000	170000	Invoice paid on * https://drive.goo...	https://drive.goo...	Priya - 312225001180		Cybersecuri	
47	Urban Green Tech	3 Smart Traffic Management System	Dr. Sudhir	Dr. Arvind	2nd Year	40000	40000	Invoice settled o https://drive.goo...	https://drive.goo...	Sanjiv - 312225001122		Traffic mana	
48	TechFlow Industries	4 IoT-Based Water Quality Monitoring System	Dr. Shankar	Dr. Anjali	2nd Year	60000	55000	Invoice settled o https://drive.goo...	https://drive.goo...	Kiran - 312225001136		IoT sensors	
49	SmartTech Enterprises	6 AI-Powered Traffic Signal Control System	Dr. Meenal	Dr. Raghav	3rd Year	95000	90000	Invoice settled o https://drive.goo...	https://drive.goo...	Rahul - 312225001195		AI-based ad	
50	Global Innovations	5 Smart Energy Grid Management	Dr. Vishal	Dr. Seema	Final Year	150000	140000	Partial payment https://drive.goo...	https://drive.goo...	Srivathsan - 312225001207		AI-driven sm	
51	Rocketlane	3 Enhancing Rocketlane User Interface	Srikrishnan	Snivarsini	3rd Year	50000	40000	bill settled https://drive.goo...	https://drive.goo...	Srivathsan - Frontend developer		Did more en	
52												Did more en	
53												Did more en	
54	"Technology Solutions Inc."	"12"	"Innovative Cloud Migration"	"Mr. Sandeep"	"Mr. Sai"	"2nd Year"	"500000"	"450000"	Invoice paid on 1 https://drive.goo...	"Ravi - Developer, Teja - Tester"		"This project	
55	"Technology Solutions Inc."	"12"	"Innovative Cloud Migration"	"Mr. Sandeep"	"Mr. Sai"	"2nd Year"	"500000"	"450000"	Invoice paid on 1 https://drive.goo...	"Ravi - Developer, Teja - Tester"		"This project	
56	"Technology Solutions Inc."	"12"	"Innovative Cloud Migration"	"Mr. Sandeep"	"Mr. Sai"	"2nd Year"	"500000"	"450000"	Invoice paid on 1 https://drive.goo...	"Ravi - Developer, Teja - Tester"		"This project	
57	"Technology Solutions Inc."	"12"	"Innovative Cloud Migration"	"Mr. Sandeep"	"Mr. Sai"	"2nd Year"	"500000"	"450000"	Invoice paid on 1 https://drive.goo...	"Ravi - Developer, Teja - Tester"		"This project	
58	"Technology Solutions Inc."	"12"	"Innovative Cloud Migration"	"Mr. Sandeep"	"Mr. Sai"	"2nd Year"	"500000"	"450000"	Invoice paid on 1 https://drive.goo...	"Ravi - Developer, Teja - Tester"		"This project	
59	"Technology Solutions Inc."	"12"	"Innovative Cloud Migration"	"Mr. Sandeep"	"Mr. Sai"	"2nd Year"	"500000"	"450000"	Invoice paid on 1 https://drive.goo...	"Ravi - Developer, Teja - Tester"		"This project	
60	SSN College Of Engineering	6	Assistive Glasses For Visually Impaired People	Saisandeep	Dhivagar	1st Year	50000	45000	Invoice Submitti https://drive.goo...	https://drive.goo...	Dhivagar - 3122 22 5001 141		Good Projec
61	SSN College Of Engineering	6	Assistive Glasses For Visually Impaired People	Saisandeep	Dhivagar	1st Year	50000	45000	Invoice Submitti https://drive.goo...	https://drive.goo...	Dhivagar - 3122 22 5001 119		Good Projec
62	SJ Robotics	6	Automated Arm Lift Robot	Saisandeep San Srivathsan S	3rd Year	50000	44998	Invoice for the bi https://drive.goo...	https://drive.goo...	Sangeetham - 3122 22 5001 119		Sangeetham - 3122 22 5001 141	
63												This Project	
64													
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68													
69													
70													
71													

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Academic Year: All Years | Industry Name: Search by industry | Principal Investigator: Search by PI name | Co-Principal Investigator: Search by Co-PI name

Amount Range (₹): ₹ Minimum to ₹ Maximum

61 Projects Found

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Industry Name	Project Title	Principal Investor	Co-Principal Investor	Academic Year	Amount Sanctioned	Amount Received
SJ Robotics	Development of Humanoid Robot	Srivathsan	Saisandeep	3rd Year	50000	45000
GreenTech Solutions	AI-powered Smart Irrigation System	Dr. Meena	Dr. Rajesh	2nd Year	75000	70000
MedVision AI	Real-Time X-ray Analysis System	Dr. Ravi	Karthik	Final Year	100000	98000
Infobyte Pvt Ltd	Chatbot for Internal HR Support	Sneha Iyer	-	3rd Year	30000	30000

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Academic Year: 3rd Year | Industry Name: SJ Robotics | Principal Investigator: Search by PI name | Co-Principal Investigator: Search by Co-PI name

Amount Range (₹): ₹ Minimum to ₹ Maximum

3 Projects Found

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Industry Name	Project Title	Principal Investor	Co-Principal Investor	Academic Year	Amount Sanctioned	Amount Received
SJ Robotics	Development of Humanoid Robot	Srivathsan	Saisandeep	3rd Year	50000	45000
SJ Robotics	Development of Humanoid Robot	Srivathsan	Saisandeep	3rd Year	50000	45000
SJ Robotics	Automated Arm Lift Robot	Saisandeep Sangeetham	Srivathsan S	3rd Year	50000	44998

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Filter Projects

Academic Year 3rd Year	Industry Name SJ Robotics	Principal Investigator Saisandeep Sangeetham	Co-Principal Investigator Search by Co-PI name
Amount Range (?) ₹ Minimum to ₹ Maximum			

APPLY FILTERS RESET

1 Projects Found

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Industry Name	Project Title	Principal Investor	Co-Principal Investor	Academic Year	Amount Sanctioned	Amount Received
SJ Robotics	Automated Arm Lift Robot	Saisandeep Sangeetham	Srivathsan S	3rd Year	50000	44998

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View Consultancy Projects

Filter Projects

Academic Year All Years	Industry Name Search by industry	Principal Investigator Search by PI name	Co-Principal Investigator Srivathsan
Amount Range (?) ₹ Minimum to ₹ Maximum			

APPLY FILTERS RESET

1 Projects Found

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Industry Name	Project Title	Principal Investor	Co-Principal Investor	Academic Year	Amount Sanctioned	Amount Received
SJ Robotics	Automated Arm Lift Robot	Saisandeep Sangeetham	Srivathsan S	3rd Year	50000	44998

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Amount Range (₹) ₹ 25000 to ₹ 100000

34 Projects Found

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Industry Name	Project Title	Principal Investor	Co-Principal Investor	Academic Year	Amount Sanctioned	Amount Received
SJ Robotics	Development of Humanoid Robot	Srivathsan	Saisandeep	3rd Year	50000	45000
GreenTech Solutions	AI-powered Smart Irrigation System	Dr. Meena	Dr. Rajesh	2nd Year	75000	70000
MedVision AI	Real-Time X-ray Analysis System	Dr. Ravi	Karthik	Final Year	100000	98000
Infobyte Pvt Ltd	Chatbot for Internal HR Support	Sneha Iyer	-	3rd Year	30000	30000
BuildWare Systems	Inventory Tracking App for Construction	Mahesh Reddy	-	2nd Year	25000	25000
NeuroTech Labs	Brain-Computer Interface Prototype	Dr. Radha	Dr. Suresh	3rd Year	90000	85000
EcoVision	Carbon Footprint Calculator Tool	Ritika Shah	-	2nd Year	40000	40000
HealthBridge AI	Automated Appointment Scheduler	Dr. Leela	-	3rd Year	60000	58000

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Data Entry View Data sandeep.sangeetham845@gmail.com

Amount Range (₹) ₹ 25000 to ₹ 100000

34 Projects Found

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Industry Name	Project Title	Principal Investor	Co-Principal Investor	Academic Year	Amount Sanctioned	Amount Received
SJ Robotics	Development of Humanoid Robot	Srivathsan	Saisandeep	3rd Year	50000	45000
GreenTech Solutions	AI-powered Smart Irrigation System	Dr. Meena	Dr. Rajesh	2nd Year	75000	70000
MedVision AI	Real-Time X-ray Analysis System	Dr. Ravi	Karthik	Final Year	100000	98000
Infobyte Pvt Ltd	Chatbot for Internal HR Support	Sneha Iyer	-	3rd Year	30000	30000
BuildWare Systems	Inventory Tracking App for Construction	Mahesh Reddy	-	2nd Year	25000	25000
NeuroTech Labs	Brain-Computer Interface Prototype	Dr. Radha	Dr. Suresh	3rd Year	90000	85000
EcoVision	Carbon Footprint Calculator Tool	Ritika Shah	-	2nd Year	40000	40000
HealthBridge AI	Automated Appointment Scheduler	Dr. Leela	-	3rd Year	60000	58000

A	B	C	D	E	F	G	H	I	J
Tablet	Project Title	Duration (months)	Principal Investigator	Co-Principal Investigator	Academic Year	Amount Sanctioned	Amount Received	Bill Details	Student Details
16	SJ Robotics	Development of Humanoid Robot	6	Srivathsan	Saisandeep	3rd Year	50000	45000	Invoice settled on "25-04-2025" Saisandeep -312225001195
17	GreenTech Solutions	AI-powered Smart Irrigation System	4	Dr. Meena	Dr. Rajesh	2nd Year	75000	70000	Paid via NEFT on "10-03-2025" Ananya -312225001123
18	MedVision AI	Real-Time X-ray Analysis System	5	Dr. Ravi	Karthik	Final Year	100000	98000	Invoice sent Karthik -312225001100
19	Infobyte Pvt Ltd	Chatbot for Internal HR Support	3	Sneha Iyer	-	3rd Year	30000	30000	All bills submitted Rahul -312225001133
20	BuildWare Systems	Inventory Tracking App for Construction	2	Mahesh Reddy	-	2nd Year	25000	25000	Fully settled Suresh -312225001199
21	NeuroTech Labs	Brain-Computer Interface Prototype	4	Dr. Radha	Dr. Suresh	3rd Year	90000	85000	Pending invoice from March Harini -312225001112
22	EcoVision	Carbon Footprint Calculator Tool	3	Ritika Shah	-	2nd Year	40000	40000	Invoice cleared on "05-04-2025" Vikas -312225001144
23	HealthBridge AI	Automated Appointment Scheduler	4	Dr. Leela	-	3rd Year	60000	58000	Bills uploaded on 22-03-2025 Saranya -312225001120
24	QuantumX Technologies	Quantum Computing Simulation Software	3	Dr. Arvind	-	2nd Year	55000	50000	Invoice settled on "12-06-2025" Ravi -312225001175
25	SmartVision	Smart Home Automation System	4	Sri Ramesh	Divya Desai	2nd Year	60000	55000	Invoice settled on "20-03-2025" Vinay -312225001148
26	ClearTech Innovations	Smart Water Purification System	3	Dr. Radhika	Dr. Amit	2nd Year	55000	50000	Invoice paid on "03-01-2025" Maya -312225001189
27	DeepBlue Robotics	Autonomous Underwater Vehicle	4	Dr. Karthik	Dr. Neha	3rd Year	90000	85000	Invoice paid on "15-02-2025" Vijay -312225001104
28	SmartFarm Solutions	AI-powered Precision Agriculture	4	Dr. Meena	Dr. Vijay	2nd Year	65000	60000	Invoice paid on "05-02-2025" Arun -312225001109
29	Urban Green Tech	Smart Traffic Management System	3	Dr. Sudheer	Dr. Arvind	2nd Year	40000	40000	Invoice settled on "22-02-2025" Sanjay -312225001122
30	TechFlow Industries	IoT-Based Water Quality Monitoring System	4	Dr. Shankar	Dr. Anjali	2nd Year	60000	55000	Invoice settled on "15-03-2025" Kiran -312225001136
31	SmartTech Enterprises	AI-Powered Traffic Signal Control System	6	Dr. Meenal	Dr. Raghav	3rd Year	95000	90000	Invoice settled on "10-02-2025" Kiran -312225001195
32	Rocketlane	Enhancing Rocketlane User Interface	3	Srikrishnan	Srivarshini	3rd Year	50000	40000	bill settled Srivathsan - Frontend dev Srivarshini -312225001000
33	SSN College Of Engineer	Assistive Glasses For Visually Impaired P	6	Saisandeep	Dhvigar	1st Year	50000	45000	Invoice Submitted Saisandeep -312225001100
34	SSN College Of Engineer	Assistive Glasses For Visually Impaired P	6	Saisandeep	Dhvigar	1st Year	50000	45000	Invoice Submitted Dhvigar -312225001100
35	SJ Robotics	Automated Arm Lift Robot	6	Saisandeep Sangeetham	Srivathsan S	3rd Year	50000	44998	Invoice for the bill settlement- (1) Saisandeep Sangeetham -312225001100 Srinivasan S -312225001100

Learning Outcome:

By the end of this project, we learnt:

Design and develop a full-stack web application using React.js and Node.js with Express, following modern development practices.

Implement user authentication and security features using bcryptjs and JWT, while selectively integrating MongoDB for secure credential management.

Perform CRUD operations on Excel files using the xlsx and file-saver libraries, enabling structured data handling without a traditional database.

Integrate file upload functionalities using Multer and manage file system operations through Node.js core modules.

Develop and style responsive UIs using Material UI, Emotion, and MUI Icons, promoting consistent and modern design principles.

Utilize routing and state management in a React application using react-router-dom and appropriate component state techniques.

Facilitate user interaction with data through advanced filtering, searching, and Excel download features.

Automate communication workflows via email notifications using the Gmail API through the googleapis library.

Apply middleware for enhanced backend functionality, including logging (morgan), body parsing, and CORS configuration.