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Phase B- DBMS

Explanation of the schema:

1. **educationalback** is the schema to Store the Educational Background and contains: Description of Education, Institute, Start Year and the End Year.
2. **publicationmongoose** is the schema to store the publication details and it contains: Publication Year, title, and link related to the Publication.
3. **coursemongoose** is the schema to store the Courses taught details and it contains: Course name, course code and the year in which it was taught.
4. **facultyschema** is the main schema used to make the entire profile page and it contains:
 - a. Email ID: it was set unique ID just to avoid the multiple registrations.
 - b. Research Topics: it is an array of strings which stores research interests.
 - c. Publications: Array of schema publicationmongoose to store Publication Data.
 - d. Courses: Array of schema coursemongoose to store Course Taught Data.
 - e. Background Paragraph 1 & BackgroundParagraph 2 are used to store the background and research interests in details of the user.
 - f. Profile URL: it was used to store the link related to the Profile Picture of the user. User Can link his/her profile picture with linkedin or facebook profile picture.
 - g. Educational Background: this was the array of schema educational background which stored data related to user's educational background.

Schema Used (NodeJS code):

Library used to apply MongoDB is Mongoose

```
const educationalback = new mongoose.Schema({
  description_edu: {
    type: String,
    default: "",
  },
  institute: {
    type: String,
    default: "",
  },
  start_year: {
    type: String,
    default: "",
  },
  end_year: {
    type: String,
    default: "",
  },
});
```

```

    },
  });
const publicationmongoose = new mongoose.Schema({
  publication_year: {
    type: Number,
    default: "",
  },
  title: {
    type: String,
    default: "",
  },
  link: {
    type: String,
    default: "",
  },
});
const coursesmongoose = new mongoose.Schema({
  course_year: {
    type: Number,
    default: "",
  },
  coursename: {
    type: String,
    default: "",
  },
  coursecode: {
    type: String,
    default: "",
  },
});
const facultyschema = new mongoose.Schema({
  emailID: { type: String, unique: true },
  researchTopics: [String],
  publications: [publicationmongoose],
  courses: [coursesmongoose],
  background_para1: { type: String, default: "" },
  background_para2: { type: String, default: "" },
  profileurl: { type: String, default: "../assetsdash/img/profile.png" },
  educationalbackg: [educationalback]
});

```

