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This code was written in Javascript using the Node.js a runtime environment to build upon the GUI experience. This document will explain how to start the server. You first will need to download nodejs on your machine. When down with the installation you will open you terminal and run the following commands npm run dev. This will result in the server running on your system. If all succeedd head to your browser and type http://localhost:5000/. Custom function was written in this code so I included the sql that was use to put this project together.

*Hover over the survey to display other options
*When filtering press enter on the computer

Create Table

```
CREATE TABLE public.Company (
    id text not null,
    name text not null,
    constraint Company_pkey primary key (id)
) tablespace pg_default;

CREATE unique index "Company_name_key" ON public."Company" USING btree (name) tablespace pg_default;

CREATE TABLE public.Internship (
    id text not null,
    startDate timestamp without time zone not null,
    endDate timestamp without time zone not null,
    companyId text not null,
    studentId text null,
    description text null,
    constraint Internship_pkey primary key (id),
    constraint Internship_companyId_fkey foreign key ("companyId") references "Company" (id) ON update cascade ON
DELETE restrict,
    constraint Internship_studentId_fkey foreign key ("studentId") references "Student" (id) ON update cascade ON delete
    SET
        null
```

```
) tablespace pg_default;

CREATE TABLE public.InternshipTag (
    internshipId text not null,
    tagId text not null,
    constraint InternshipTag_pkey primary key ("internshipId", "tagId"),
    constraint InternshipTag_internshipId_fkey foreign key ("internshipId") references "Internship" (id)
ON update cascade ON
DELETE restrict,
    constraint InternshipTag_tagId_fkey foreign key ("tagId") references "Tag" (id) ON update cascade
ON
DELETE restrict
) tablespace pg_default;

CREATE TABLE public.Student (
    id text not null,
    name text not null,
    constraint Student_pkey primary key (id)
) tablespace pg_default;

CREATE unique index "Student_name_key" ON public."Student" USING btree (name) tablespace
pg_default;

CREATE TABLE public.Tag (
    id text not null,
    name text not null,
    constraint Tag_pkey primary key (id)
) tablespace pg_default;

CREATE unique index "Tag_name_key" ON public."Tag" USING btree (name) tablespace pg_default;

CREATE index if not exists "Tag_name_idx" ON public."Tag" USING btree (name) tablespace
pg_default;
```

Select Statement

```
SELECT * FROM Internship WHERE companyId = '<company_id>';

SELECT * FROM Internship WHERE studentId = '<student_id>';

SELECT Internship * FROM Internship
INNER JOIN InternshipTag ON Internship.id = InternshipTag.internshipId
INNER JOIN Tag ON InternshipTag.tagId = Tag.id
WHERE Tag.name = '<tag_name>';
```

```
SELECT Tag * FROM Tag
INNER JOIN InternshipTag ON Tag.id = InternshipTag.tagId
INNER JOIN Internship ON InternshipTag.internshipId = Internship.id
WHERE Internship.id = '<internship_id>';

SELECT Internship.* FROM Internship
INNER JOIN InternshipTag ON Internship.id = InternshipTag.internshipId
INNER JOIN Tag ON InternshipTag.tagId = Tag.id
WHERE Tag.name = '<tag_name>' AND Internship.companyId = '<company_id>';
```

Insert Statement

```
INSERT INTO "Company" (id, name)
VALUES (id, name);

INSERT INTO "Internship" (id, startDate, endDate, companyId, description, studentId)
VALUES ('<internship_id>', '2023-06-01 00:00:00', '2023-09-01 00:00:00', '<company_id>', 'Assist in developing software applications', '<student_id>');

INSERT INTO "Student" (id, name)
VALUES ('<student_id>' , '<student_name>');

INSERT INTO "Tag" (id, name)
VALUES ('<tag_id>', '<tag_name>');

INSERT INTO "InternshipTag" (internshipId, tagId)
VALUES ('<internship_id>', '<tag_id>');
```