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Core App Stuff

Routes

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Core App Stuff

server.js

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```
/** Server startup for BizTime. */
 const app = require("./app");
 app.listen(3000, function () {
   console.log("Listening on 3000");
 });
app.js
 /** BizTime express application. */
 const express = require("express");
 const ExpressError = require("./expressError")
 const companiesRoutes = require("./routes/companies");
 const invoicesRoutes = require("./routes/invoices");
 const app = express();
 app.use(express.json());
 app.use("/companies", companiesRoutes);
 app.use("/invoices", invoicesRoutes);
 /** 404 handler */
 app.use(function (req, res, next) {
   const err = new ExpressError("Not Found", 404);
   return next(err);
 });
 /** general error handler */
 app.use((err, req, res, next) => {
   res.status(err.status || 500);
   return res.json({
     error: err,
     message: err.message
  });
 });
 module.exports = app;
db.js
```

```
const { Client } = require("pg");
 const client = new Client({
   connectionString: "postgresql://biztime"
 });
 client.connect();
 module.exports = client;
Routes
routes/companies.js
 /** Routes for companies. */
```

/** Database setup for BizTime. */

```
const express = require("express");
 const slugify = require("slugify");
 const ExpressError = require("../expressError")
 const db = require("../db");
 let router = new express.Router();
 /** GET / => list of companies.
  * => {companies: [{code, name, descrip}, {code, name, descrip}, ...]}
  * */
 router.get("/", async function (req, res, next) {
   try {
     const result = await db.query(
           `SELECT code, name
            FROM companies
            ORDER BY name`
    );
     return res.json({"companies": result.rows});
   catch (err) {
     return next(err);
 });
 /** GET /[code] => detail on company
  * => {company: {code, name, descrip, invoices: [id, ...]}}
  * */
 router.get("/:code", async function (req, res, next) {
   try {
     let code = req.params.code;
     const compResult = await db.query(
           `SELECT code, name, description
            FROM companies
           WHERE code = $1,
         [code]
     );
     const invResult = await db.query(
           `SELECT id
            FROM invoices
            WHERE comp_code = $1`,
         [code]
     );
     if (compResult.rows.length === 0) {
       throw new ExpressError(`No such company: ${code}`, 404)
     const company = compResult.rows[0];
     const invoices = invResult.rows;
     company.invoices = invoices.map(inv => inv.id);
     return res.json({"company": company});
   catch (err) {
     return next(err);
 });
 /** POST / => add new company
  * {name, descrip} => {company: {code, name, descrip}}
  * */
 router.post("/", async function (req, res, next) {
   try {
     let {name, description} = req.body;
     let code = slugify(name, {lower: true});
     const result = await db.query(
           `INSERT INTO companies (code, name, description)
           VALUES ($1, $2, $3)
            RETURNING code, name, description`,
         [code, name, description]);
     return res.status(201).json({"company": result.rows[0]});
   catch (err) {
     return next(err);
 });
 /** PUT /[code] => update company
  * {name, descrip} => {company: {code, name, descrip}}
  * */
 router.put("/:code", async function (req, res, next) {
  try {
     let {name, description} = req.body;
     let code = req.params.code;
     const result = await db.query(
           `UPDATE companies
            SET name=$1, description=$2
            WHERE code = $3
            RETURNING code, name, description`,
         [name, description, code]);
     if (result.rows.length === 0) {
       throw new ExpressError(`No such company: ${code}`, 404)
       return res.json({"company": result.rows[0]});
   catch (err) {
     return next(err);
});
 /** DELETE /[code] => delete company
  * => {status: "added"}
  */
 router.delete("/:code", async function (req, res, next) {
   try {
     let code = req.params.code;
     const result = await db.query(
           `DELETE FROM companies
           WHERE code=$1
            RETURNING code,
         [code]);
     if (result.rows.length == 0) {
       throw new ExpressError(`No such company: ${code}`, 404)
    } else {
       return res.json({"status": "deleted"});
   }
   catch (err) {
     return next(err);
  }
 });
 module.exports = router;
routes/invoices.js
 /** Routes for invoices. */
 const express = require("express");
```

```
* */
router.get("/:id", async function (req, res, next) {
 try {
   let id = req.params.id;
    const result = await db.query(
       `SELECT i.id,
                 i.comp_code,
                 i.amt,
                 i.paid,
                 i.add_date,
                 i.paid_date,
                 c.name,
                 c.description
          FROM invoices AS i
            INNER JOIN companies AS c ON (i.comp_code = c.code)
          WHERE id = $1,
       [id]);
    if (result.rows.length === 0) {
     throw new ExpressError(`No such invoice: ${id}`,404);
    const data = result.rows[0];
    const invoice = {
     id: data.id,
     company: {
       code: data.comp_code,
       name: data.name,
       description: data.description,
     },
     amt: data.amt,
     paid: data.paid,
     add_date: data.add_date,
     paid_date: data.paid_date,
   };
    return res.json({"invoice": invoice});
 catch (err) {
    return next(err);
});
/** POST / => add new invoice
 * {comp_code, amt} => {id, comp_code, amt, paid, add_date, paid_date}
 * */
router.post("/", async function (req, res, next) {
 try {
   let {comp_code, amt} = req.body;
    const result = await db.query(
          `INSERT INTO invoices (comp_code, amt)
          VALUES ($1, $2)
          RETURNING id, comp_code, amt, paid, add_date, paid_date`,
       [comp_code, amt]);
   return res.json({"invoice": result.rows[0]});
 catch (err) {
   return next(err);
});
/** PUT /[code] => update invoice
 * {amt, paid} => {id, comp_code, amt, paid, add_date, paid_date}
```

const ExpressError = require("../expressError")

* => {invoices: [{id, comp_code}, ...]}

const result = await db.query(

FROM invoices ORDER BY id`

/** GET /[id] => detail on invoice

amt, paid,

add_date, paid_date,

company: {code, name, description}}}

`SELECT id, comp_code

router.get("/", async function (req, res, next) {

return res.json({"invoices": result.rows});

const db = require("../db");

/** GET / => list of invoices.

* */

try {

);

});

catch (err) {

return next(err);

* => {invoices: {id,

let router = new express.Router();

```
let {amt, paid} = req.body;
    let id = req.params.id;
    let paidDate = null;
    const currResult = await db.query(
          `SELECT paid
          FROM invoices
          WHERE id = $1,
        [id]);
    if (currResult.rows.length === 0) {
      throw new ExpressError(`No such invoice: ${id}`, 404);
    const currPaidDate = currResult.rows[0].paid_date;
    if (!currPaidDate && paid) {
      paidDate = new Date();
    } else if (!paid) {
      paidDate = null
    } else {
      paidDate = currPaidDate;
    const result = await db.query(
          `UPDATE invoices
           SET amt=$1, paid=$2, paid_date=$3
           WHERE id=$4
           RETURNING id, comp_code, amt, paid, add_date, paid_date`,
        [amt, paid, paidDate, id]);
    return res.json({"invoice": result.rows[0]});
  catch (err) {
    return next(err);
});
/** DELETE /[code] => delete invoice
 * => {status: "deleted"}
 */
router.delete("/:id", async function (req, res, next) {
  try {
    let id = req.params.id;
    const result = await db.query(
          `DELETE FROM invoices
          WHERE id = $1
          RETURNING id`,
        [id]);
    if (result.rows.length === 0) {
      throw new ExpressError(`No such invoice: ${id}`, 404);
    return res.json({"status": "deleted"});
  catch (err) {
    return next(err);
```

* If paying unpaid invoice, set paid_date; if marking as unpaid, clear paid_date.

router.put("/:id", async function (req, res, next) {

* */

try {

});

module.exports = router;