```
Springboard
BizTime Solution
  « Back to Homepage
```

Core App Stuff

Routes

BizTime Solution

Core App Stuff

server.js

```
Download solution
```

```
/** 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) => {
```

🌋 Springboard

const { Client } = require("pg"); const client = new Client({ connectionString: "postgresql://biztime" }); client.connect();

/** Database setup for BizTime. */

res.status(err.status || 500);

return res.json({

module.exports = app;

message: err.message

error: err,

});

});

db.js

module.exports = client; **Routes**

routes/companies.js

```
/** Routes for companies. */
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) {
```

catch (err) { return next(err); });

},

* */

try {

amt: data.amt,

paid: data.paid,

add_date: data.add_date,

try {

let code = req.params.code;

WHERE code=\$1

[code]);

} else {

catch (err) {

return next(err);

module.exports = router;

/** Routes for invoices. */

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

/** GET / => list of invoices.

const express = require("express");

let router = new express.Router();

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,

* => {invoices: {id,

`SELECT id, comp_code

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

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

}

} });

routes/invoices.js

* */

try {

);

const result = await db.query(

RETURNING code,

if (result.rows.length == 0) {

return res.json({"status": "deleted"});

throw new ExpressError(`No such company: \${code}`, 404)

`DELETE FROM companies

```
paid_date,
                 company: {code, name, description}}}
 * */
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,
```

```
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}

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

let {amt, paid} = req.body;

const currResult = await db.query(

let id = req.params.id;

`SELECT paid

FROM invoices

WHERE id = \$1,

let paidDate = null;

[id]);

catch (err) {

return next(err);

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

```
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]});
```

```
});
/** 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);
```

```
});
module.exports = router;
```

return next(err);

catch (err) {

return res.json({"status": "deleted"});