

Bootcamp 3 - Communication Diagram

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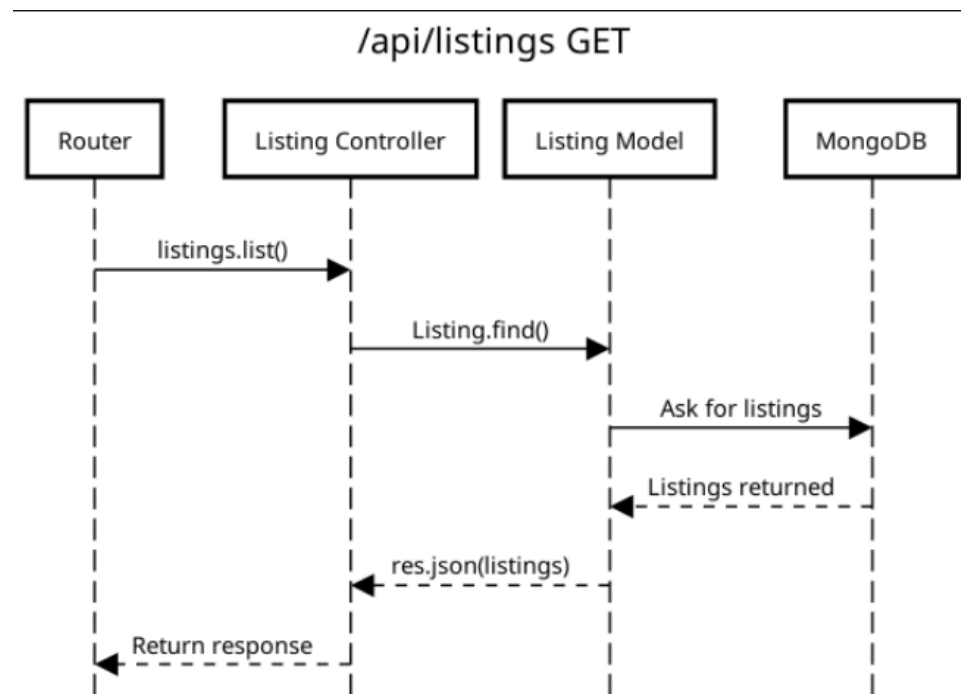
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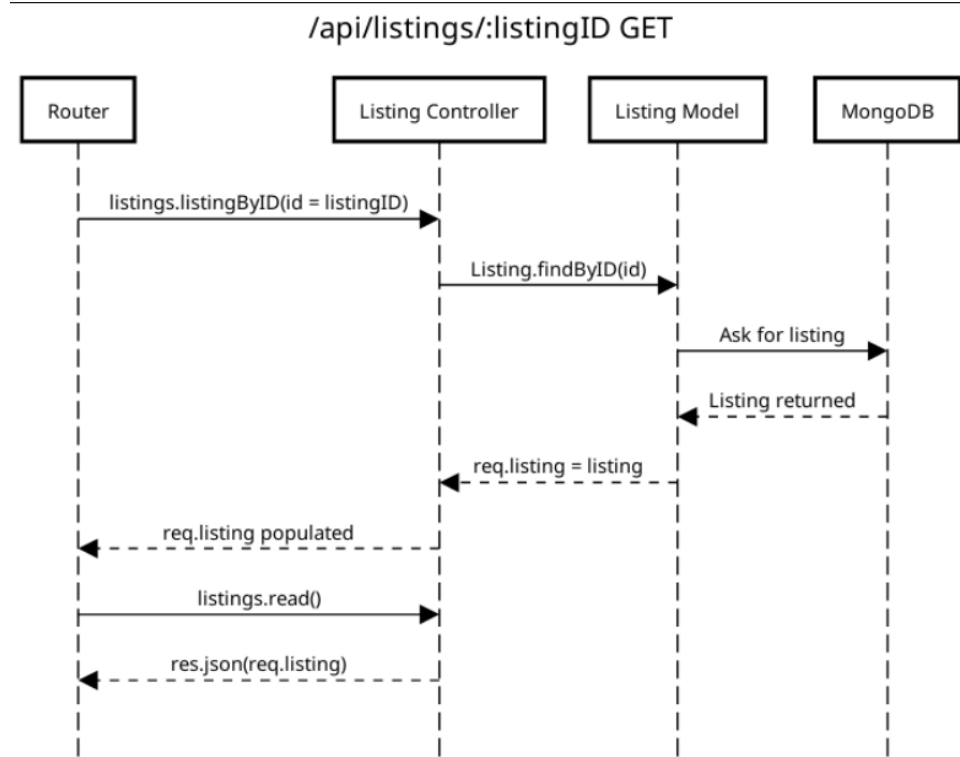
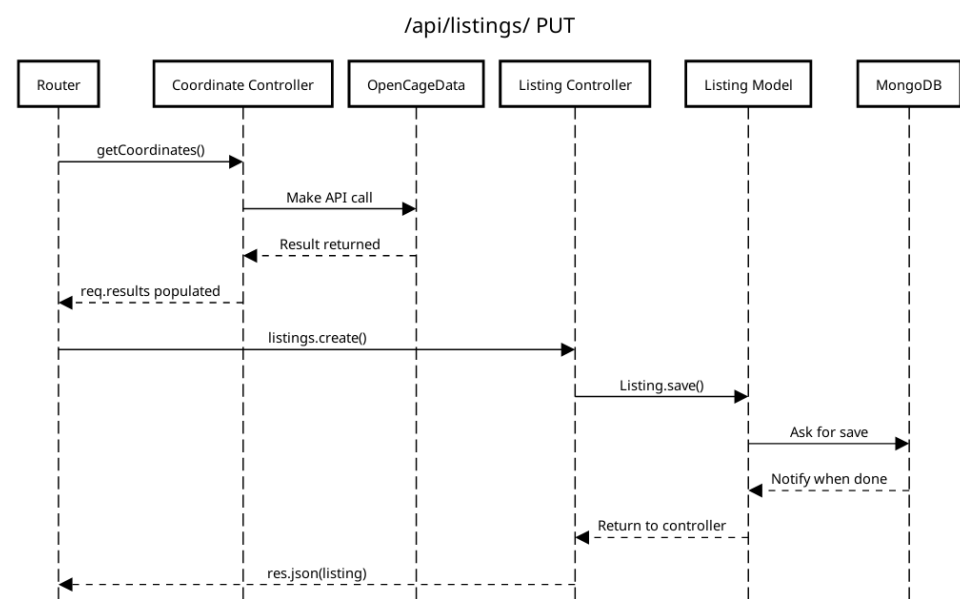
Relationships Between Files

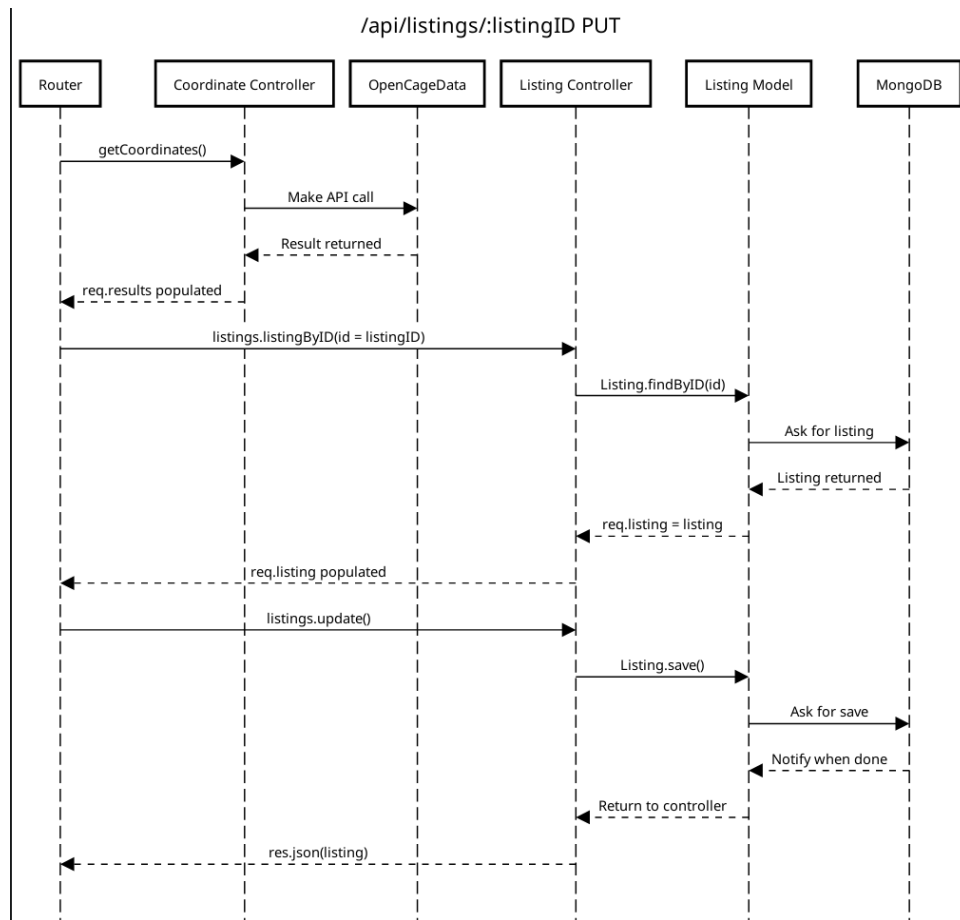
"server.js" is just an entrypoint for "app.js", which itself just starts the express server in "express.js".

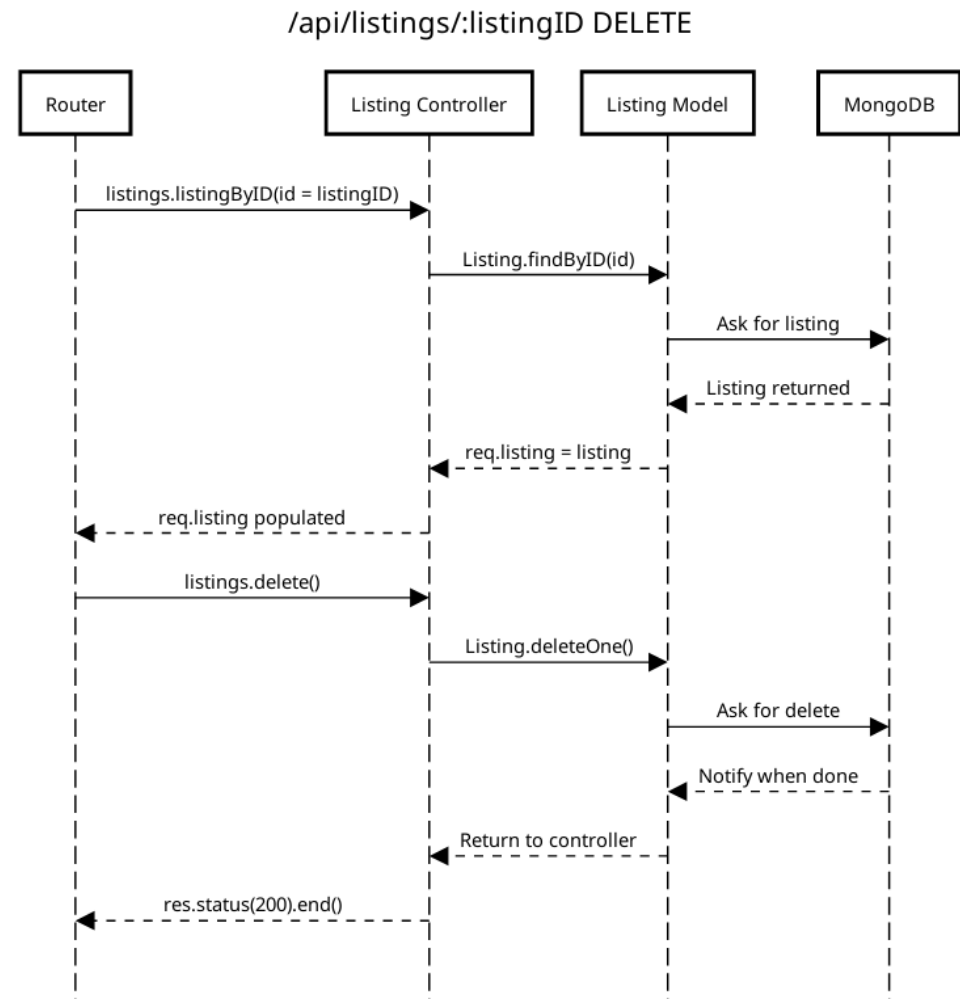
"router.js" is used to define a routing middleware for express, and is used in "express.js" to handle all requests to /api/listings.

Sequence Diagrams for every request to /api/listings are below. They all start at the router, after express passes control to the router middleware.









Controller Contents And Their Roles

The coordinate controller is an implementation of a middleware to get coordinates from an address using an api. This controller is used as middleware in the router to get the coordinates before passing the request to the listing controller.

The listing controller listingByID function is another middleware that is used in the router to populate req.listing with the listing if an id is passed in before passing the request to the listing controller.

The listing controller handles the listing requests list, create, read, update, and

delete.

Test File Relationships

The test file "listings.server.model.test.js" tests the mongoose model for listings. It tells me to ensure that the name and code field both exist before saving the listing to MongoDB. It also verifies that the model properly gets saved to the database.

The test file "listings.server.routes.test.js" tests the router, as well as both controllers. The coordinate controller is used as middleware inside the router, and the listings controller is used for the api requests inside of the router. The tests tell me that I need to finish the implementation of all the api requests. It also tells me that I need to finish the coordinate controller implementation so that the returned coordinates get saved into the response at `res.body.coordinates`.