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# Sample web application

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## Minimal 3 tier web application

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- **React frontend:** Uses react query to load data from the two apis and display the result
- **Node JS and Golang APIs:** Both have `/` and `/ping` endpoints. `/` queries the Database for the current time, and `/ping` returns `pong`
- **SQLite Database:** An empty SQLite database with no tables or data. Used to show how to set up connectivity. The API applications execute `SELECT NOW() as now;` to determine the current time to return.

## Running the Application

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The `Makefile` should contain the commands to start each application.

### api-node

To run the node api you will need to run `npm install` to install the dependencies (I used node `v20.19.6` and npm `v10.8.2` ).

After installing the dependencies, `make run-api-node` will run the api in development mode with nodemon for restarting the app when you make source code changes.

### api-golang

To run the golang api you will need to run `go mod download` to download and install the dependencies (I used `go1.23.4 linux/amd64` )

After installing the dependencies, `make run-api-golang` will build and run the api.

### client-react

Like `api-node` , you will first need to install the dependencies with `npm install` (again, I used node `v20.19.6` and npm `v10.8.2` )

After installing the dependencies, `make run-client-react` will use vite to run the react app in development mode.