

# **Episto**

Record. Summarize. Understand.

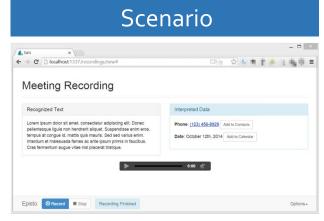


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# Purpose

At once note-taker and virtual assistant, Episto acts as an alternate way to interacting with audio recordings. Episto extracts meaningful phrases, numbers, and names from the meeting, presents a meeting summary to the user, and suggests possible actions it can take based on the information extracted from the meeting.



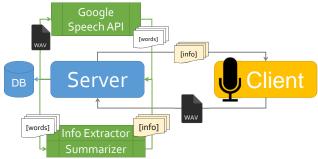
- 1. User opens Episto on phone or laptop, starts recording meeting.
- 2.Episto presents live transcript of meeting and collects information.
- 3. User saves meeting summary and recording to Evernote, adds phone #s and dates to Contacts and Calendar.

## Architecture

Episto is implemented in a client-server architecture, using Node.js and Google Chrome as the respective JavaScript runtimes. Two architectures were devised for this application: a server-centric and a browser-centric model.

Both models rely on the same technologies (WebRTC, Google Speech API, WebSockets) for data management.

#### Server-Centric Arch.



- Client streams audio to the server.
- Server pipes the audio to the Google Speech API, then extractors and summarizers, and returns final result.
- Server-side Google Speech API is poorly documented, making serverside impractical for now.

#### Client-Centric Arch.



- Server only serves the client code and stores outputted information.
- Client handles all speech and data manipulation.
- Used as a stopgap; Google's client-side speech APIs are significantly more reliable.
- Cannot recognize speech and record simultaneously.

### Future Goals

- Move to server-centric architecture when functional API is available.
- Improve code reuse to allow other projects to build upon Episto.
- Research ways to improve recognition/ processing accuracy.

