

Taking better notes in meetings

Backend Development - Phase I

Proposed by

Selvakumar H S

Deep Learning Engineer

Upwork

Proposed Work

The current plan is to make a cloud-free transcription system for taking notes during interviews and meetings.

The current work is focused on single language support (English) with multi-voice recognition.

The development will be carried out using python.

The work will be extended to API integration for various mail and login credentials.

Future work includes support for multiple languages and more third party meeting applications.

Zoom developer API

Zoom API allows developers to access all the meeting data and the possibility of creating the in-apps.

Zoom has developed an API security for enhanced experience for deployment. Available from 20, December, 2020.

Ref: <https://marketplace.zoom.us/docs/api-reference/zoom-api/cloud>

Available repo: <https://github.com/CoconutJJ/zoom-bot.git>

GET /meetings/{meetingId}/recordings

Get all the [recordings](#) from a meeting or a Webinar.

The recording files can be downloaded via the `download_url` property listed in the response.

To access a password protected cloud recording, add an "access_token" parameter to the download URL and provide OAuth access token or [JWT](#) as the value of the "access_token".

Scopes: `recording:read:admin` `recording:read`

Rate Limit Label: `Light`

Authorization

► `oauth2 - authorizationCode`

Teams developer API


Microsoft team allows the API for recording meetings.

Microsoft has their own security protocol built within the API.

Ref: <https://docs.microsoft.com/en-us/graph/api/callrecords-callrecord-get?view=graph-rest-1.0>

Available repo: <https://github.com/BartlomiejRasztabiga/ms-teams-auto-call-recorder>

Get callRecord

10/01/2020 • 3 minutes to read • 

Namespace: microsoft.graph.callRecords

Retrieve the properties and relationships of a **callRecord** object.

There are two ways to get the **id** of a **callRecord**:

- Subscribe to [change notifications](#) to the `/communications/callRecords` endpoint.
- Use the `callChainId` property of a **call**. The call record is available only after the associated call is completed.

Permissions

One of the following permissions is required to call this API. To learn more, including how to choose permissions, see [Permissions](#).

Permission type	Permissions (from least to most privileged)
Delegated (work or school account)	Not supported.
Delegated (personal Microsoft account)	Not supported.
Application	CallRecords.Read.All

Security for API development

Most of the open source security APIs has been developed using REST APIs.

However OpenStack has available API support with their security system.

Each security essentials are open sourced and documented better.

Ref: <https://wiki.openstack.org/wiki/Security-SIG>

Securities and API availability

- Zoom Developer API
- Microsoft Developer API
- Security for API
Development

Web Interface - Sections

- Login
- Homepage
- My meetings
- Shared meetings
- Archived Meetings
- Trash

→ Settings

Sections

Homepage

- Display credits available in terms of minutes.
- Options for search conversations and meetings (Recordings and Transcriptions)
- Custom Navbar for required functionalities

My meetings

- List of meetings.
 - **Functionalities** - Meeting time, Transcribed words (no.), Highlights, Photos, tags and labels
 - **Sharing** - Send a mail, In-app Sharing

Shared meetings

- All functionalities in “my meetings”
- Shared people information (people available in meeting)

Sections

Archived Meetings

- Same functionality as in “shared meetings” and “my meetings” with the list of tags.
- Archived to private and personal.

Trash

- Holds the deleted meetings

Settings

- Login credentials handling
- Languages selection
- Autmail services to selected accounts
- API services

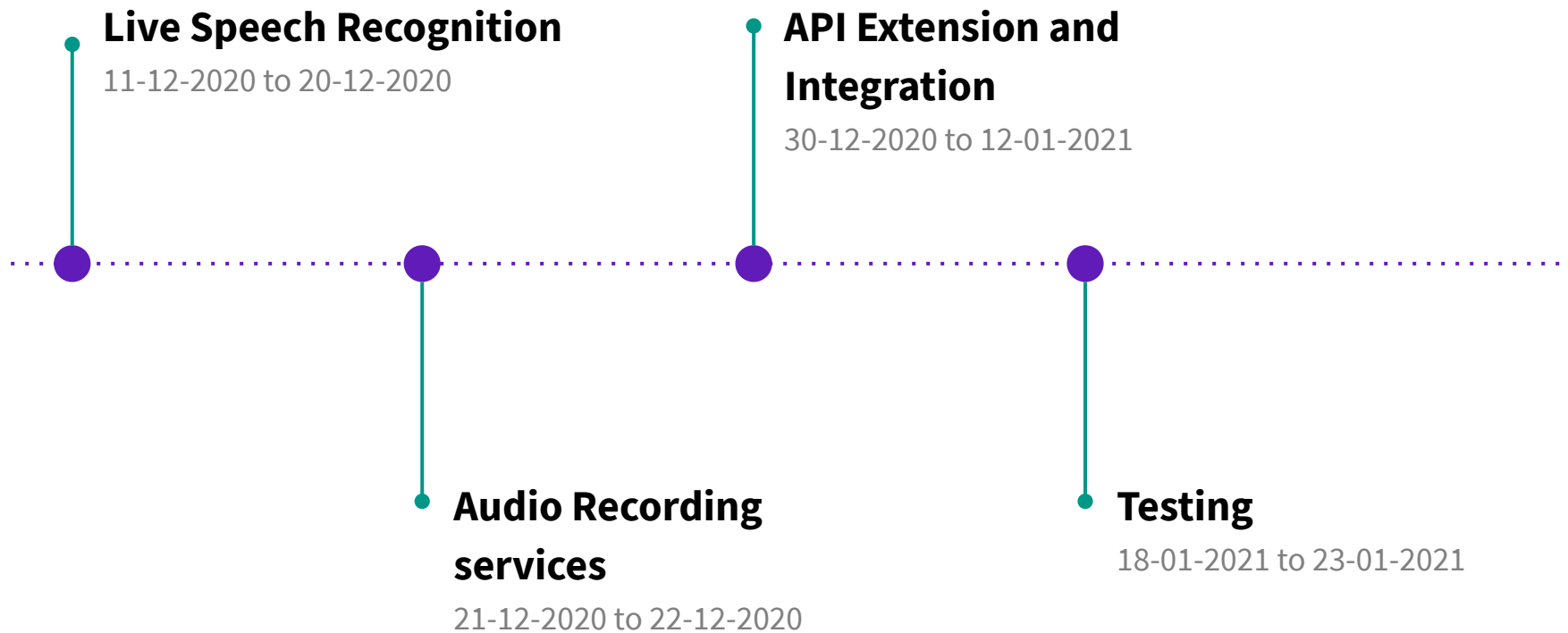
Services planned

Phase I

Phase I

- **Live Speech Recognition**
- **Audio Recording services**
- **API extension library**
- **API Integration services**

Work Timeline



**For any details,
contact**

Selvakumar H S

franklinselva10@gmail.com

<https://www.upwork.com/o/profiles/users/~0145c532c3561d5071/>

