# **NoteAnt** [**Project Repo**](https://github.com/BUMETCS673/project-team-4#bumtv-project-repo)

## **Project Overview**

We all take notes at some point, either in class or in a meeting. One of the popular methods of note taking is typing down your thoughts while listening. A lot of times the notes we took can be hard to read or confusing. To solve this problem, we will build a web application empowered by ChatGPT that helps users to complete and summarize notes.

Behind the scene is the MERN stack, Pivotal Tracker, Git/GitHub, and many other libraries. The main tech stack and its purpose is to:

* MongoDB
  + Store notes documents.
  + Store users account credentials
* ExpressJS
  + Build server structure
  + Handle CRUD operations and RESTful requests.
* React
  + Front-end user interface
  + Data handling
* NodeJS
  + Provides a run-time environment for our project to operate.

### **Project Directory Structure**

* Google Drive
  + Meetings records and summaries
  + Project iteration planning
  + Project risk management assessments
  + Role Assignment
  + Progress Report
  + Software Test Document
  + Presentation slides
* GitHub:
  + Project Repository
    - Code
      * Front-end code
      * Back-end code
    - Demo
      * (currently empty)
    - Doc
      * (currently empty)
    - Misc
      * (currently empty)
    - README.md
    - team.md

### **Team Members and Roles**

* Nicholas Narmada [-](https://github.com/BUMETCS673/project-team-4#trevor-cardoza---design-and-implementation-lead) Team Lead
* Siyuan Wan [-](https://github.com/BUMETCS673/project-team-4#mahim-choudhury---security-lead) Security Lead
* Yibo Wang - QA Lead
* Wenhao Tian - Design and Implementation Lead
* Guancheng Huang - Requirements Lead
* Yichen Li - Configuration Lead

### **Plan/Roadmap**

* Team Composition:
* Frontend: 3 people
* Backend: 3 people

**Iteration 0:**

* Project development ideas.
* Clear division and familiarization with individual parts.

**Iteration** 1：

Frontend

* Finish making UI
* Use dummy data

Backend

* Research about ChatGPT API and LangChain
* Setup Express and MongoDB

**Iteration 2：**

Frontend

* Remove dummy data, use real-time data from the backend
* Create loading and error states

Backend

* Finish CRUD (create, read, update, delete) operations
* Finish building MongoDB data models
* Finish register, login, logout functionalities
* Implement user sessions

**Iteration 3：**

Frontend & Backend

* Ensure everything works seamlessly
* Add new features based on feedback from surveys