

YouTube video summarizer tech stack

The user flow of this project is defined as

- YouTube video clean summary
- AI will be giving suggestion
- GPT type tutor
 - Student Will: “Mujhe isi video se padha do”
 - AI will take frames + transcript from videos

Backend will be work like

Video link → Video ka audio(mp3) → Provide the audio to AI Agent → Agent will summarize → Provide the summary to user

Front end

- React + Vite
- Tailwind / CSS
- React Router
- Axios (API calls)

Backend

- Node.js + Express
- REST API
- JWT Auth (later)

Database

- MongoDB (simple + industry-used)

AI Integration

- OpenAI / Gemini / Claude API
- We are not going to make AI we are using the API token

Dev Tools

- Git + GitHub
- Postman
- Environment variables (.env)

We will be building our project in phases

All the phases are written below here

And all the phases has the point that has more points in it so that we can have a detailed version of “How we are going to build this project in 6-7 months”

Phase 1

- Frontend UI
- Backend API
- Connect AI API
- Show result

Frontend UI

1.UI inspiration

- **dribbble.com** → UI shots, landing pages

- **behance.net** → full app designs
- **mobbin.com** → real apps screens (best for flows)
- **collectui.com** → specific components (login, dashboard, cards)

We can also search for

“AI dashboard UI”
“SaaS web app UI”
“Education platform UI”

2.UI pages

-  YouTube Link Input
-  Summary Card
-  Suggestions Panel
-  AI Tutor Chat Panel

Backend

- Node + Express + DB + Own APIs

Backend Architecture

Client (React)

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Your Backend (Node + Express)

```
|  
|   └── Auth (Users)  
|   └── Video Analysis API  
|   └── Chat API  
|   └── Database (MongoDB)  
└── AI API (OpenAI/Gemini)
```

