

Development Blueprint & Build Task Flow

WHERE EACH TECH IS USED

Tech	Used For
Next.js	Full frontend & backend structure
Tailwind CSS	UI styling & responsiveness
Shadcn UI	Beautiful, consistent UI components
Zustand	Chat widget state management
React Hook Form + Zod	Forms (login, chatbot settings, etc)
MongoDB + Mongoose	Store users, projects, crawled data
NextAuth.js	User login, session management
Axios + Cheerio	Scraping content from website URLs
OpenAI/Gemini/Hugging Face	Powering chatbot replies
Vercel	Deploying full stack site
Stripe/ and others	Subscription/paywall features
LangChain	(Optional) chaining memory, prompts
Swagger/OpenAPI	Documenting public chatbot embed APIs
pdf-parse / mammoth / papaparse	Extracting data from PDF, DOCX, CSV

DESIGN WIREFRAMES.....

1. Landing Page

- Hero section (CTA: "Create Your AI Chatbot")
- Features Grid
- Testimonials
- Pricing (Free vs Pro)
- Signup/Login CTA

2. Auth Pages

- Login
- Register
- Forgot Password

3. Dashboard Page (multi-tenant)

- Header with user info & logout
- Sidebar:
 - All Projects
 - New Project
 - Account Settings
 - Chatbot **Analytics**
 - Knowledge **Uploaded Files**
 - Chatbot **Customization**
 - Embed Options

And Many moreSections.....

- Main:
 - List of user projects with cards (per user)
 - Button: "Create New Chatbot"

4. Project (Chatbot) Page

- Tabs:
 - General Settings
 - Name, color, icon, welcome message
 - Knowledge
 - Add site URL to crawl (auto-sync option)
 - Upload file (PDF, DOCX, CSV)
 - Sync frequency (Daily/Weekly)
 - Embed Options
 - Option 1: JS Script (One-liner)
 - Option 2: Public Embed API URL (with example)
 - Chat Preview
 - Simulated UI of the bot
 - Live Handoff (enable human support redirect through email)

5. Analytics Page

- Project-wise stats:
 - Chat volume, bounce vs conversion
 - Avg response time
 - Popular questions

6. File Upload Page

- Upload PDFs, DOCX, CSV, txt files
- List of uploaded files per project
- Training status (Done / In Progress)

7. Admin Page (optional)

- View all users, stats, block bots etc

8. Error Pages

- 404 / 500 Custom

- **Note for the Team:**

This is just a suggested build flow prepared as a starting point. It's not necessary to follow everything exactly as it is. The purpose of this flow is to help you visualize how we can approach the development stage of the project.

Feel free to build and structure things according to your own logic, preferences, and improvements. You're welcome to create your own routes, modules, and components wherever needed.

This is simply a basic reference map to get the wheels turning.....

```
/app
/dashboard
  page.tsx          # User dashboard
/project
  /[id]
    page.tsx        # Project settings
/analytics
  page.tsx          # Dashboard analytics
/uploads
  page.tsx          # File uploads + training
/settings
  page.tsx
/login
/register
/pricing
/api
  /auth
  /project
  /chat
  /embed
    [projectId].ts  # Embed API handler
  /crawl.ts         # Auto knowledge sync
  /analytics.ts     # Stats, mood
  /livehandoff.ts   # Human fallback
  /files
    upload.ts       # PDF, DOCX, CSV upload
layout.tsx
page.tsx            # Landing page

/components
Navbar.tsx
Sidebar.tsx
ChatPreview.tsx
ChatEmbed.tsx
EmbedOptions.tsx
AnalyticsChart.tsx
FileUpload.tsx
forms/
  LoginForm.tsx
  RegisterForm.tsx

/lib
auth.ts
db.ts
openai.ts
gemini.ts
huggingface.ts
crawl.ts
sentiment.ts
fileExtract.ts

/models
user.ts
project.ts
chat.ts
file.ts

/public
  /embed
    chatbot.js      # Public script to embed in websites

/styles
globals.css

tailwind.config.ts
next.config.js
.env.local
```

