```
## // Core Setup
-[] Initialize FastAPI project with appropriate structure (`app/`, `routers/`, `models/`,
`schemas/`, `services/`)
-[] Set up MongoDB Atlas connection with `motor` or `pymongo`
-[] Environment variable management (`.env` using `python-dotenv` or
`pydantic.BaseSettings`)
-[] Install and configure CORS middleware
## | Authentication
-[] JWT-based auth or Firebase Auth integration
- If JWT:
 -[] User model with hashed password
 -[] Signup (`POST /auth/signup`)
  -[]Login(`POST/auth/login`)
  -[] Token creation and validation utils
 - [] Auth middleware dependency
- If Firebase:
 -[] Firebase SDK setup
```

-[] Auth route logic via Firebase API ## 💿 💼 User Module -[] MongoDB `users` collection -[] GET `/users/:id/goals` - Fetch goals -[] POST `/users/:id/goals` - Update goals -[] Support for `coach\_voice` and user preferences ## Events Module -[] MongoDB `events` collection -[] POST `/events` - Add event -[] GET `/events/:user\_id` - Fetch user events -[] POST `/events/analyze` - GPT-4 API call to check alignment with goals -[] Prompt template using LangChain -[] Al response saved to `suggestions` collection

```
## <a href="#">Habits Module</a>
-[] MongoDB `habits` collection
-[] POST `/habits` - Create new habit
-[] PUT `/habits/:id` - Mark habit complete (update streak + timestamp)
-[] GET `/habits/:user_id` - Fetch all user habits
## \ Suggestions Module
-[] MongoDB `suggestions` collection
-[] GET `/suggestions/:user_id` - Fetch past suggestions
-[]Store `ai_prompt`, `ai_response`, `event_id`, `was_accepted`
## 👶 Coach Reflection Module
-[]POST `/coach/reflect`
- [] Input = weekly reflection or status
- [] Output = GPT-based encouragement/feedback using user's coach voice
```

```
## 
Al Integration (LangChain + GPT-4)
-[] Define prompt templates by voice (Cool Cousin, OG Big Bro, Oracle, etc.)
-[] Setup LangChain chains or direct OpenAI API calls
-[] Handle caching or storing AI results
-[] Include fallback messages if AI call fails
## \( \mathbb{T} \) Scheduler (Optional)
-[] Use Celery or APScheduler
-[] Daily habit reminders
-[] Weekly summary reports from Coach
## 🛆 Storage & Media
-[] Firebase Storage or Cloudinary setup (for profile photos)
## Deployment Readiness
-[] Procfile / `start.sh` script for Render/Railway
```

-[] Dockerfile (optional)
- [ ] Swagger docs available via FastAPI (` /docs`)
- [] Logging and error handling middleware
- [] Unit test coverage for routes and services
## 🔍 Optional Extras
- [] Rate limiting on AI endpoints
-[] Data export route (`/users/:id/export`)
- [ ] Role-based access (e.g. admin dashboard)
- [] In-app notifications service via Firebase
Let me know when you're ready to start implementing each section or if you want code

samples for any of these!