

# Aytes Whitepaper

Version 2.0 | December 2025

## 1. Introduction

In a world of increasing product velocity, the gap between UI design and backend implementation has become a bottleneck. While Figma and similar tools have revolutionized frontend prototyping, backend development still demands manual handoffs, redundant work, and technical silos.

Aytes bridges that gap. It is a Figma-to-backend engine that enables users to visually create, configure, and deploy backend infrastructures directly from their design canvas. Aytes turns design blueprints into full-stack Node.js applications-instantly.

## 2. The Design-to-Code Problem

- UI/UX teams use tools like Figma to prototype interfaces, but backend logic often gets disconnected.
- Developers waste time manually converting visual workflows into models, routes, and controllers.
- This leads to delays, errors, and reduced collaboration between design and engineering.

## 3. Our Vision: Designers as Builders

We envision a future where non-developers and designers can directly contribute to application logic without writing a single line of backend code. Aytes empowers:

- Designers to visually scaffold backend services
- Developers to focus on complex logic instead of boilerplate
- Teams to ship faster, with fewer handoffs

## 4. The Aytes Solution

Aytes integrates with Figma via a plugin, allowing users to:

- Drag and drop components representing backend logic (models, APIs, auth)
- Define relationships and input/output structures visually
- Auto-generate backend files (Express.js, Mongo/PostgreSQL)
- Export or deploy instantly to the cloud

It's like having an AI backend engineer embedded into your design file.

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## 5. Key Platform Features

- Figma Plugin: Directly build backend flows in the design environment
- Visual API Builder: Define CRUD operations, middleware, and routing logic visually
- AI-Powered Code Generator: Generate clean, modular code from visual flows
- Exportable Node.js Projects: Get ZIP downloads or push directly to GitHub
- Auth + DB Templates: Prebuilt support for JWT, OAuth, MongoDB, and Postgres

## 6. Technology Stack

- Frontend: Figma Plugin (React + Typescript)
- Backend: Node.js, Express.js
- Database: MongoDB / PostgreSQL
- AI: Groq (code generation), LLM fine-tuned on backend patterns
- Cloud: Vercel, Railway (deployment support)

## 7. Market Opportunity

- Over 4M designers use Figma globally
- 50M+ developers globally could benefit from faster backend scaffolding
- Rising trend of no-code/low-code and AI-assisted development

## 8. Competitive Landscape

Product	Focus	Limitation
Builder.io	Frontend only	No backend automation
Webflow	UI + CMS	Not backend extensible
Buzzy	Full-stack builder	Limited scalability/custom logic
Aytes	Figma to Backend	Modular, dev-friendly output

## 9. Revenue Model

- Freemium: Every user can create their first project for free to experience the platform's capabilities.
- Token-Based System: After the first project, users must spend 10 Aytes Tokens to create each additional

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project.

- Pro Tier (\$10/month): Unlocks unlimited exports, auth/DB templates, and tokenless project creation.
- Enterprise Plans: Includes white-label plugins, team permissions, and SLA support.
- Token Unlocks (Planned): Additional features like AI export, cloud sync, and premium templates will be available via pay-per-use token-based pricing.

## 10. Go-To-Market Strategy

- Launch on Figma Plugin Marketplace
- Partner with dev tool platforms (e.g. GitHub, Vercel)
- Host "Design-to-Backend" hackathons
- Ambassador program for student designers/developers

## 11. Roadmap

Q3 2025

- Public Beta Plugin on Figma
- Mongo + JWT export support
- GitHub integration

Q4 2025

- PostgreSQL + OAuth modules
- AI-based relationship mapping
- Advanced Backend

Q1 2026

- Devops and AI templates
- Workspace collaboration
- Analytics dashboard for teams

## 12. Team

- Anurag Sidhu - Founder & Backend Lead (ex-Full Stack Engineer)

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## 13. Closing Note: The New Dev Frontier

Aytes is not just a tool—it's a movement to redefine who can build backend systems. As AI, design tools, and engineering converge, Aytes empowers a new generation of creators to go from wireframe to working product without friction.

Every user can build their first project for free, making it easy to experiment and prototype. To scale further, creators can use Aytes Tokens—a flexible way to unlock project creation, AI features, and integrations.

Whether you're a solo maker, product designer, or startup team—Aytes helps you ship real products, faster.

Let's make backend beautiful.

## 14. Create Aytes — Backend Scaffolding CLI

**Create Aytes** is an interactive CLI tool that allows developers to instantly scaffold production-ready backend projects using Aytes' best-practice templates. While the Figma plugin empowers visual backend creation, Create Aytes serves developers who prefer a fast, code-first workflow.

Together, they form a complete **design-to-backend ecosystem**.

### Purpose

- Accelerate backend project setup
- Eliminate repetitive boilerplate
- Enforce clean architecture from day one
- Complement Aytes' visual backend builder

### Key Features

- ⚡ Interactive CLI experience
- □ Predefined, scalable backend templates
- 📁 Automatic project structure & setup
- ⦿ No global installation required
- □ Works instantly via npx

### Installation & Usage

Run directly using npx

```
npx aytes_templates
```

You will be prompted to:


- Enter your project name
- Select a backend template

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## Example Flow

```
npx aytes_templates
```

 Welcome to Create Aytes!

? What is your project name? my-aytes-project

? Choose a template: Express API - REST API with Express.js and MongoDBs

## After Project Creation

```
cd my-aytes-project
```

```
npm install
```

```
npm run dev
```

Your backend server is now live and ready to use 