

BUILD | EMPOWER | INNOVATE

Professional Diploma

in AI-Powered Software Building **with Base44**

A complete 20-course pathway training the next generation of African software builders to design, build, and launch real products using AI and low-code technology — no traditional programming required.



OUR MISSION

Empowering **1 Million Africans** to build software, create opportunities, and launch global technology solutions using AI and low-code technologies.

20

STRUCTURED COURSES

1

CAPSTONE PRODUCT SHIPPED

12+

CAREER PATHS UNLOCKED

From idea to deployed product — students graduate as builders, not just learners.

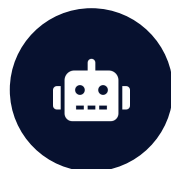
From Idea to Deployed Product

A practical, builder-first diploma designed for total beginners and aspiring entrepreneurs across Africa.



Think Like a Builder

Learn how modern software works and how to design products that solve real business problems.



Build With AI

Master Base44, AI assistants, and low-code platforms to turn prompts into working applications.



Launch & Earn

Deploy live products, build a portfolio, and graduate ready to freelance, consult, or found a startup.

What Students Will Be Able To Do

- ✓ Understand how modern software works
- ✓ Design software products from scratch
- ✓ Create professional user interfaces
- ✓ Build complete web apps using Base44
- ✓ Structure and manage databases
- ✓ Build authentication systems
- ✓ Integrate Artificial Intelligence
- ✓ Connect third-party APIs
- ✓ Build business automation systems
- ✓ Deploy applications online
- ✓ Convert web apps into mobile apps
- ✓ Launch SaaS businesses
- ✓ Work as freelance software builders
- ✓ Build and sell software solutions
- ✓ Create AI-powered startups

Five Phases. Twenty Courses. One Builder.

1

FOUNDATIONS

Courses 1–4

2

CORE BUILD SKILLS

Courses 5–8

3

ADVANCED SYSTEMS

Courses 9–13

4

MOBILE & QUALITY

Courses 14–15

5

BUSINESS & LAUNCH

Courses 16–20

PLUS: Bonus Masterclasses & Industry Capstone Project

PHASE 1

Foundations

COURSES 1 – 4

Build the thinking, design, and planning skills every software builder needs before touching a tool.



Digital Thinking & Software Fundamentals

INTRO TO TECHNOLOGY

- What is Technology?
- Digital Transformation
- Future of Software Dev
- AI Revolution & Opportunities

INTRO TO SOFTWARE

- What is Software?
- Web & Mobile Apps
- Desktop Applications
- Enterprise Systems
- SaaS Products

PRACTICAL

- Analyze & redesign: school systems
- Hospital systems
- Church systems
- Retail business operations



Introduction to AI & Vibe Coding

UNDERSTANDING AI

- What is AI?
- AI Models
- Generative AI
- AI Assistants

VIBE CODING & TOOLS

- What is Vibe Coding?
- Traditional vs AI Building
- ChatGPT, Claude, Gemini
- Perplexity, Cursor, Base44

PRACTICAL

- Build your first software using prompts only — no code written by hand.



Product Design & Software Planning

PRODUCT DEVELOPMENT

- Idea Validation
- Market Research
- Customer Discovery

PLANNING & MVPS

- User Stories
- Functional Requirements
- Software Specifications
- Feature Prioritization

PRACTICAL

- Plan an Inventory System
- School Portal
- E-commerce Store

UI/UX Design for Software Builders



USER EXPERIENCE

- User Journey
- User Flow
- Information Architecture

INTERFACE DESIGN

- Color Theory
- Typography
- Layout Design
- Mobile-First Design

PRACTICAL

- Design a Login Page
- Dashboard & Profile Page
- Settings & Mobile Interface

PHASE 2

Core Build Skills

COURSES 5 – 8

Get hands-on with Base44, databases, authentication, and your first real business applications.



BASE44 FUNDAMENTALS

- Platform Overview
- Workspace Setup
- Navigation
- Project Structure

COMPONENTS & PROMPTS

- Pages, Layouts, Forms, Tables
- Writing Effective Prompts
- Feature, UI & Workflow Prompts
- Database Prompts

PRACTICAL

- Build a CRM
- Inventory App
- Student Management App



Database Design & Data Modeling

FUNDAMENTALS

- Tables, Records, Fields

DATA TYPES & RELATIONS

- Text, Numbers, Dates, Files
- One-to-One
- One-to-Many
- Many-to-Many

PRACTICAL

- Design databases for School
- Hospital & Church Systems
- Food Delivery Platform



Authentication & User Management

USER SYSTEMS

- Registration
- Login
- Password Recovery

ROLES & SECURITY

- Super Admin, Admin, Manager
- Staff, Customer
- Permissions & Access Control
- Data Protection

PRACTICAL

- Build a complete role-based
- access system from scratch

Building Business Software



SYSTEMS YOU'LL BUILD

- Inventory Management
- POS Systems
- School Management
- Hospital Management

MORE SYSTEMS

- Church Management
- HR Management
- CRM Systems

PRACTICAL

- Build multiple business
- applications end-to-end

PROGRAM PROGRESS



PHASE 3

Advanced Systems

COURSES 9 – 13

Layer in automation, real AI agents, third-party integrations, payments, and analytics dashboards.



Advanced Workflows & Automation

AUTOMATION DESIGN

- Business Process Automation
- Workflow Design
- Approval Systems

LOGIC & NOTIFICATIONS

- Notification Systems
- Task Management
- Automation Logic

PRACTICAL

- Leave Approval System
- Admission Workflow
- Customer Onboarding
- Employee Mgmt Workflow



AI Integration & AI Agents

AI FEATURES

- Chatbots
- Virtual Assistants
- Content Generation
- Customer Support

AI AGENTS

- Understanding AI Agents
- Building AI Workflows
- Knowledge Bases

PRACTICAL

- Create an AI Tutor
- AI Customer Service Agent
- AI Business Assistant

PROGRAM PROGRESS





API Integration & Third-Party Services

UNDERSTANDING APIS

- REST APIs
- Webhooks
- Integrations

KEY INTEGRATIONS

- WhatsApp
- Email & SMS
- Google Services

PRACTICAL

- Connect external services
- directly into live applications



Payments & E-Commerce Systems

ONLINE PAYMENTS

- Payment Gateways
- Paystack
- Flutterwave
- Stripe

RECURRING REVENUE

- Subscription Systems
- Membership Systems

PRACTICAL

- Build an Online Store
- Subscription SaaS
- Membership Platform



Dashboards, Reports & Analytics

BUSINESS INTELLIGENCE

- Data Visualization
- KPI Tracking

REPORTING

- Reports
- Analytics

PRACTICAL

- Revenue Dashboard
- School & Sales Dashboard
- Executive Dashboard

PHASE 4

Mobile & Quality

COURSES 14 – 15

Take applications mobile and learn the testing discipline that separates hobby projects from real products.

Mobile App Development



GOING MOBILE

- Responsive Applications
- Mobile Optimization
- Progressive Web Apps

PUBLISHING

- App Conversion
- Google Play Store
- Apple App Store

PRACTICAL

- Convert a Base44 app
- into a mobile experience



Software Testing & Quality Assurance

TESTING PRINCIPLES

- User Testing
- Bug Tracking

RELIABILITY

- Error Handling
- Performance Optimization

PRACTICAL

- Test and improve
- live software projects

PHASE 5

Business & Launch

COURSES 16 – 20

Go live, build a SaaS business, win freelance clients, launch a startup, and ship your capstone product.



Deployment & Production

GOING LIVE

- Domains
- Hosting
- SSL

PRODUCTION

- Production Environment
- Monitoring Applications

PRACTICAL

- Deploy live applications
- to a production environment

PROGRAM PROGRESS





SaaS Development & Software Business

SAAS FUNDAMENTALS

- Subscription Models
- Pricing Strategy

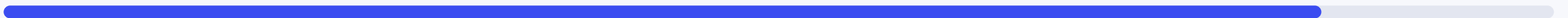
GROWTH

- Customer Acquisition
- Sales Funnels
- Product Marketing
- Customer Support

PRACTICAL

- Launch a complete
- SaaS business plan

PROGRAM PROGRESS





Freelancing & Client Acquisition

GOING PROFESSIONAL

- Building a Portfolio
- Personal Branding
- Proposal Writing

WORKING WITH CLIENTS

- Client Communication
- Pricing Projects
- Managing Projects

PLATFORMS & PRACTICAL

- Upwork, Fiverr, LinkedIn
- Build portfolio + service packages



Startup Creation & Tech Entrepreneurship

BUILDING A STARTUP

- Startup Validation
- Team Building

GROWING IT

- Product Launch
- Fundraising Basics
- Scaling Tech Businesses

PRACTICAL

- Develop and pitch
- a real startup idea

Industry Capstone Project

Each student must build and launch a complete, real-world software product — choosing from a list of industry-grade systems.

School Management System

Hospital Management System

Church Management System

Inventory Management System

Food Delivery Platform

E-commerce Marketplace

Hotel Booking System

Learning Management System

HR Management System

Project Management Platform

AI Business Assistant

AI Tutor Platform

AI CRM System

Beyond the Core Curriculum



AI Tools for Productivity

- ChatGPT
- Claude
- Gemini
- Perplexity



No-Code & Low-Code Ecosystem

- Base44
- Airtable
- Zapier
- FlutterFlow
- Softr
- Make



Building AI Startups in Africa

- Spotting local opportunities
- Lean MVP strategy
- Regional case studies



How to Earn From AI Skills

- Freelance positioning
- Productized services
- Remote jobs & global gigs

What It Takes to Graduate

Every graduate of Low Code Africa leaves with proof of real, working skill — not just a certificate.



Build a complete software application



Create a working database



Implement authentication & permissions



Integrate AI functionality



Connect at least one API



Deploy the application online



Present the project to a review panel



Publish a professional portfolio

Where Graduates Go Next

● AI Software Builder

● Base44 Developer

● Low-Code Developer

● SaaS Founder

● Automation Specialist

● Product Builder

● Startup Founder

● Technical Project Manager

● AI Consultant

● Digital Transformation Specialist

● Freelance Software Builder

● Business Systems Developer



Build the future. Empower a continent. Innovate without limits.

Ready to build, empower, and innovate?

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