

# VIBE CODING

## KENYA

KENYA · BEGINNER FRIENDLY · PROJECT-BASED

Build Websites, Apps & SaaS Products

with AI-Powered Tools

**4 WEEKS**

Intensive Program

**60 HRS**

Hands-on Learning

**9 TOOLS**

Industry Stack

**4 PROJECTS**

Real Deliverables

### TOOLS COVERED:

Lovable · Base44 · Google AI Studio · Google Antigravity · Firebase · Supabase · Netlify · Vercel · GitHub

### DURATION

4 Weeks · 20 Days

### SCHEDULE

Mon-Fri · 3 Hours/Day

### LEVEL

Absolute Beginner Welcome

Prepared by **OSDAI Tech**

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## Welcome to Vibe Coding Kenya

Vibe Coding is the practice of building real, production-ready digital products using AI-assisted tools — writing minimal traditional code while focusing entirely on ideas, design thinking, and problem-solving. This course is designed specifically for Kenyan students and entrepreneurs who want to build tech products that solve local and global problems — without needing a computer science degree.

### Who Is This Course For?

- Students at universities and colleges looking to build tech portfolios
- Entrepreneurs who want to build and launch digital products fast
- Freelancers who want to offer website & app building services
- Anyone curious about tech who has ZERO coding experience

### What You Will Be Able To Do After This Course

<b>Build &amp; Deploy Websites</b>	Create beautiful, responsive business websites live on the internet
<b>Build Web Applications</b>	Create functional apps with user accounts, databases, and real features
<b>Launch SaaS Products</b>	Build subscription-based software products that can generate income
<b>Work with AI Tools</b>	Use AI to accelerate every step of your development workflow
<b>Deploy &amp; Scale</b>	Push your products live using Netlify and Vercel like a pro

### The Vibe Coding Philosophy

**Prompt** → **Preview** → **Publish**. Instead of spending months learning syntax, you learn to *describe* what you want to an AI, *refine* the output visually, and *ship* it to real users. We believe African builders should spend time on impact, not on boilerplate.

#### ■ ■ Why This Matters for Kenya

Kenya has 22M+ internet users — a massive market for digital products.

M-Pesa integration, local fintech, agri-tech & edu-tech are booming sectors.

The Kenyan government's Digital Economy Blueprint needs 1M+ tech workers by 2030.

With Vibe Coding, YOU can be part of this digital revolution — starting today.

## 02 | TOOLS BREAKDOWN & WHAT YOU'LL BUILD

Every tool in this course was hand-picked for one reason: **speed from idea to live product**. No tool requires you to be a software engineer. Each one is used by thousands of builders worldwide to ship real products. GitHub is the glue that connects your code to your live deployments.

### LOVABLE - AI Website & App Builder

Lovable lets you describe a website or app in plain English and it generates beautiful, functional code instantly. Think Figma meets GitHub — but AI builds everything for you. Perfect for landing pages, dashboards, and full web applications.

- Build full-stack apps with prompts
- Connect to Supabase for databases
- Export clean React code
- One-click deploy to Vercel

### BASE44 - AI Web App Rapid Prototyper

Base44 is a powerful AI tool that helps you rapidly prototype and build web applications. You describe the features you need and it scaffolds the entire application structure — great for SaaS dashboards, admin panels, and internal tools.

- Rapid prototyping in minutes
- Business logic from plain language
- API-ready output
- Ideal for SaaS MVPs

### GOOGLE AI STUDIO - AI Development & Prompting Platform

Google AI Studio gives you direct access to Gemini models. You use it to generate code snippets, plan your app architecture, draft user flows, create content, debug errors, and power AI features inside your products.

- Access Gemini 1.5 Pro for free
- Code generation & debugging
- Build AI-powered app features
- Analyse data & documents

### GOOGLE ANTIGRAVITY - Google's Rapid App Deployment Platform

Google Antigravity (part of Google Labs) allows developers to quickly deploy web applications and experiment with Google Cloud services with minimal configuration. It bridges your code to Google's infrastructure with zero DevOps headaches.

- Zero-config app deployment
- Google Cloud integration
- Fast experiment-to-production
- Works with AI Studio outputs

## **FIREBASE** · Backend-as-a-Service by Google

Firebase is Google's app development platform. It gives you authentication, a real-time NoSQL database, file storage, and hosting — all without writing backend server code. It's the go-to backend for fast-moving builders.

- User Authentication (email, Google, phone)
- Realtime & Firestore databases
- Cloud storage for files/images
- Firebase Hosting for fast deploys

## **SUPABASE** · The Open Source Firebase Alternative

Supabase is a PostgreSQL-based backend platform. It gives you a full relational database, auto-generated REST APIs, authentication, storage, and edge functions. Perfect for SaaS products that need structured data like M-Pesa transactions, user profiles, orders, and more.

- PostgreSQL database with visual editor
- Auto-generated REST & GraphQL APIs
- Row-Level Security for data privacy
- Works beautifully with Lovable

## **GITHUB** · Version Control & Deployment Bridge

GitHub is where your code lives. It acts as the bridge between your AI-built projects and deployment platforms like Netlify and Vercel. Every time you push code to GitHub, your live site updates automatically. Think of it as Google Drive — but for code, with a full history of every change you have ever made.

- Store and version-control all your project code
- Auto-trigger deployments on Netlify & Vercel
- Collaborate with teammates on the same codebase
- Free public & private repositories for all projects

## **NETLIFY** · Frontend Cloud & Deployment Platform

Netlify is where your websites go to live on the internet. Drag your folder, connect your GitHub repo, or click deploy — and your site is live with HTTPS, a CDN, and a custom domain in under 60 seconds.

- Deploy static sites & React apps
- Custom domains (yoursite.co.ke)
- Form handling out of the box
- Serverless functions for backend logic

## **VERCEL** · The Frontend Cloud for Modern Apps

Vercel is the preferred deployment platform for React and Next.js applications. Used by thousands of African startups, Vercel gives you global edge deployment, preview links for every update, and instant rollbacks — all for free to start.

- Best-in-class Next.js & React hosting
- Preview URLs for every branch/change
- Global CDN — fast in Nairobi & beyond
- Analytics & performance built-in

## COURSE AT A GLANCE — 4-WEEK MILESTONES

#	Milestone / Deliverable	Week
1	Account setup: all 8 tools + GitHub ready	Week 1
2	First GitHub repository created and code pushed	Week 1
3	First prompt in Google AI Studio	Week 1
4	First Lovable website built	Week 1
5	First live website deployed to Netlify	Week 1
6	Firebase project with auth enabled	Week 2
7	First Firestore read/write from your app	Week 2
8	File upload working with Firebase Storage	Week 2
9	GitHub repo connected to Vercel for auto-deployment	Week 2
10	First app deployed to Vercel via GitHub push	Week 2
11	Supabase project with relational tables	Week 3
12	Full-stack app: Lovable + Supabase connected	Week 3
13	Base44 admin dashboard live	Week 3
14	Google Antigravity serverless function deployed	Week 3
15	SaaS product brief completed	Week 4
16	Multi-tenant SaaS with subscription tiers	Week 4
17	Email notifications working	Week 4
18	Custom domain live on Vercel	Week 4
19	GitHub portfolio: 4 repos with clean READMEs + live URLs	Week 4
20	Completed Demo Day presentation	Week 4
21	Certificate of Completion received	Week 4

## WEEK 1 | FOUNDATIONS & YOUR FIRST WEBSITE

**Theme: Understand the Vibe Coding mindset, set up all tools, and ship your first website live.**

*Tools this week: GitHub · Google AI Studio · Lovable · Netlify*

This week is about building confidence and momentum. By Friday you will have a real, live website on the internet. We start with thinking before building — understanding your user, your problem, and your product vision.

### Day 1 (Monday) — Introduction to Vibe Coding & Setting Up

■ *Kenyan Context: Kenya has a growing number of local startups like Twiga Foods, M-Kopa and Copia — you will build products like these*

#### Learning Objectives

- Understand what Vibe Coding is and why it matters in 2025
- Set up all 8 tools with free accounts
- Understand the anatomy of a web product (frontend, backend, database, hosting)
- Understand why GitHub is the foundation of every modern deployment workflow

#### Session Activities

- Icebreaker: What Kenyan problem would you solve with an app?
- Live demo: Building a landing page in 10 minutes with Lovable
- Account setup walkthrough: Google, GitHub, Firebase, Supabase, Netlify, Vercel, Lovable, Base44
- Introduction to prompting: How to talk to AI tools effectively
- Group activity: Write your first 3 product ideas in 1 paragraph each

**End-of-Day Build: Write a product brief for your personal project (1 paragraph + 3 core features)**

### Day 2 (Tuesday) — Google AI Studio — Your AI Co-Pilot

■ *Kenyan Context: Use AI to write marketing copy in both English and Swahili for a local business*

#### Learning Objectives

- Navigate Google AI Studio and use Gemini models
- Use AI to generate website copy, code snippets, and user flows
- Understand prompt engineering basics for development tasks

#### Session Activities

- Tour of Google AI Studio interface and model options
- Prompting exercise: Generate a full landing page copy for a Nairobi delivery service
- Code generation: Ask Gemini to write HTML/CSS for a hero section
- Use Gemini to plan a database schema for a school management system
- Debug challenge: Break code intentionally, then fix it using AI Studio

**End-of-Day Build: Use Google AI Studio to generate complete content for your Week 1 website project**

### Day 3 (Wednesday) — Lovable — Build Your First Real Website

■ *Kenyan Context: Over 80% of Kenyan internet users browse on mobile — responsive design is non-negotiable*

#### Learning Objectives

- Build a multi-section website using Lovable's AI builder
- Customise design, colours, typography and layout
- Connect a contact form and basic interactivity

#### Session Activities

- Introduction to Lovable: workspace tour and prompt structure

- Build a 5-section landing page: Hero, About, Services, Pricing, Contact
- Customise with Kenya-specific content (local currency KES, phone formats, Nairobi maps)
- Add a navigation menu with smooth scrolling
- Responsive design check: test on mobile view (most Kenyan users are on mobile)

**End-of-Day Build: Complete your 5-section business website in Lovable — ready for deployment**

## Day 4 (Thursday) — GitHub + Netlify — Version Control & Going Live

■ ■ *Kenyan Context: Domain registrars like Kenya Network Information Centre (KeNIC) offer .co.ke domains for KES 1,000/year*

### Learning Objectives

- Understand what GitHub is and why every developer uses it
- Push your Lovable project to a GitHub repository
- Connect GitHub to Netlify for automatic continuous deployment
- Understand CDN, HTTPS, and why they matter for Kenyan users

### Session Activities

- GitHub explained: repositories, commits, branches — with visual analogies
- Create a free GitHub account and your first repository (repo)
- Export your Lovable project code and push it to GitHub step by step
- Connect your GitHub repo to Netlify — the magic of continuous deployment
- The deployment loop: edit code locally → commit → push to GitHub → Netlify auto-updates your live site
- Set up a free .netlify.app subdomain then explore custom .co.ke domain options
- Enable Netlify Forms to receive contact form submissions to your email
- Review & celebrate: Your website is LIVE and any future update takes just one push!

**End-of-Day Build: Website live on Netlify, code stored safely on GitHub — update live site by pushing to GitHub**

## Day 5 (Friday) — Week 1 Review, Presentation & Polish

■ ■ *Kenyan Context: Build a website for a local business in your area — salon, restaurant, clinic, hardware store*

### Learning Objectives

- Review and improve your deployed website based on feedback
- Present your work and articulate your product vision
- Give and receive constructive feedback

### Session Activities

- Mini presentations: Each student shares their live website URL and explains their product idea (3 mins each)
- Group feedback session using the Start/Stop/Continue framework
- Polish workshop: Improve SEO title tags, meta descriptions, and social preview images
- Introduction to Google Analytics: add tracking to your live site
- Preview of Week 2: We're adding user accounts and a database next!

**End-of-Day Build: Polished live website + Google Analytics connected + 60-second product pitch recorded**

## WEEK 2 | WEB APPLICATIONS & FIREBASE

**Theme: Move from static websites to dynamic web apps with real user authentication and databases.**

*Tools this week: Firebase · Lovable · Google AI Studio · GitHub · Vercel*

This week we cross the line from website to application. Your product will have user accounts, a live database, and real interactivity. We use Firebase — Google's battle-tested backend platform — to power everything.

### Day 6 (Monday) — Introduction to Web Apps & Firebase Setup

■ ■ *Kenyan Context: M-Pesa STK Push is widely used in Kenya — we'll explore how apps connect to payment gateways later*

#### Learning Objectives

- Understand the difference between a website and a web application
- Set up a Firebase project with Authentication and Firestore
- Understand NoSQL database concepts

#### Session Activities

- Conceptual session: Website vs Web App vs SaaS (with Kenyan examples)
- Firebase Console tour: Authentication, Firestore, Storage, Hosting
- Create a Firebase project for your Week 2 app
- Enable Email/Password and Google Sign-In authentication
- Firestore data modelling exercise: Design a database for a job board for Kenyan graduates
- Read/write rules introduction — who can access what data

**End-of-Day Build: Firebase project live with Authentication enabled and first Firestore collection created**

### Day 7 (Tuesday) — Firebase Authentication — User Accounts

■ ■ *Kenyan Context: Build a student portal for a Kenyan university — login with your institution email*

#### Learning Objectives

- Build a complete sign-up, login, and logout flow
- Protect pages so only logged-in users can access them
- Display personalised content based on user identity

#### Session Activities

- Build a Sign Up page in Lovable with email + password fields
- Connect the form to Firebase Authentication via prompts in Lovable
- Build a Login page and protected dashboard route
- Add Google Sign-In button (one click login)
- Show user's name and photo on the dashboard header
- Test the full auth flow: register → login → logout → forgotten password

**End-of-Day Build: Working authentication system: users can register, log in, and see a personal dashboard**

### Day 8 (Wednesday) — Firestore Database — Storing Real Data

■ ■ *Kenyan Context: Build a personal budget tracker in KES — track M-Pesa, bank, and cash expenses*

#### Learning Objectives

- Read and write data to Firestore from your app
- Build real-time data features (live updates without refresh)
- Implement basic CRUD: Create, Read, Update, Delete

#### Session Activities

- Firestore collections and documents explained with visual examples
- Build an Expense Tracker: add income/expense entries with category tags
- Real-time listener: watch new entries appear without refreshing the page
- Filter data by category and date range
- Delete and edit entries with confirmation dialogs
- Use Google AI Studio to generate 20 sample expense records for testing

**End-of-Day Build: Fully functional Expense Tracker app with user accounts and real-time Firestore data**

## Day 9 (Thursday) — Firebase Storage + GitHub + Vercel Deployment

■ *Kenyan Context: Use Firebase Storage to let matatu booking users upload their national ID for verification*

### Learning Objectives

- Upload and retrieve files/images from Firebase Storage
- Connect your project to Vercel via GitHub for continuous deployment
- Understand environment variables and secrets management

### Session Activities

- Firebase Storage: upload profile pictures and display them in the app
- Build a file/document upload feature (e.g., upload CV to job board)
- GitHub workflow recap: commit your Week 2 app changes and push to your repo
- Vercel account setup — connect Vercel directly to your GitHub repository
- How Vercel + GitHub work together: every git push triggers a live deploy automatically
- Preview deployments on Vercel: every branch gets its own preview URL — share with teammates before merging
- Set Firebase API keys as environment variables in Vercel (never hardcode secrets in GitHub)
- Rollbacks: how to revert to a previous deploy in one click if something breaks

**End-of-Day Build: App deployed to Vercel via GitHub — push any change to GitHub and it goes live instantly**

## Day 10 (Friday) — Week 2 Project Day — Kenyan Job Board App

■ *Kenyan Context: Kenya has 800,000 graduates entering the job market annually — a job board is a real need*

### Learning Objectives

- Apply all Week 2 skills to build a complete mini-application
- Practice product thinking: user stories, feature priority

### Session Activities

- Full project day: Build a Kenyan Graduate Job Board
- Features to implement: user registration, post a job listing (employer), browse jobs (graduate), save favourite jobs
- Use Google AI Studio to generate 15 realistic Kenyan job listings for demo data
- Deploy to Vercel with a production-ready URL
- Code review: peer-review each other's apps and suggest one improvement
- Reflection: What worked? What was hard? What would you add?

**End-of-Day Build: Deployed Job Board app — live URL, working auth, Firestore database**

## WEEK 3 | FULL-STACK APPS WITH SUPABASE

**Theme: Build production-grade full-stack applications using Supabase's PostgreSQL backend.**

*Tools this week: Supabase · Lovable · Base44 · Google AI Studio · Vercel*

This is where things get powerful. Supabase gives you a relational database (PostgreSQL), auto-generated APIs, row-level security, and storage — all in one dashboard. Combined with Lovable and Base44, you can build enterprise-grade applications this week.

### Day 11 (Monday) — Introduction to Supabase & PostgreSQL Thinking

■ ■ *Kenyan Context: Design a database for a popular Kenyan business: e.g., a githeri/chapo food delivery app*

#### Learning Objectives

- Understand relational databases vs NoSQL (Firebase Firestore)
- Set up a Supabase project with tables, columns, and relationships
- Use the Supabase Table Editor and SQL editor

#### Session Activities

- Supabase dashboard tour: Table Editor, Authentication, Storage, API docs
- PostgreSQL basics: tables, rows, columns, primary keys, foreign keys
- Design a database for a Kenya e-commerce store: Products, Orders, Users, Reviews
- Create tables using the visual editor (no SQL required yet)
- Enable Row Level Security (RLS) — understand why data privacy matters
- Use Supabase auto-generated API docs to test a GET request

**End-of-Day Build: Supabase project live with at least 3 related tables and sample data inserted**

### Day 12 (Tuesday) — Supabase Auth & Connecting to Lovable

■ ■ *Kenyan Context: Build a Chama (investment group) app where each member only sees their group's data*

#### Learning Objectives

- Implement Supabase Authentication in a Lovable-built app
- Use Supabase client library to query data
- Build authenticated user profiles stored in Supabase

#### Session Activities

- Connect a Lovable project to Supabase (native integration walkthrough)
- Build a registration and login page powered by Supabase Auth
- Create a user\_profiles table that links to Supabase Auth users
- Display user-specific data on the dashboard (their own records only)
- Use Google AI Studio to generate TypeScript/JavaScript Supabase query snippets
- Test authentication edge cases: wrong password, expired session, duplicate email

**End-of-Day Build: App with Supabase auth — users register, log in, and see only their own data**

### Day 13 (Wednesday) — Base44 — Rapid SaaS Prototyping

■ ■ *Kenyan Context: Build a fee management dashboard for a Kenyan primary school — track payments in KES*

#### Learning Objectives

- Use Base44 to rapidly scaffold a SaaS application structure
- Connect Base44 output to a Supabase backend
- Build admin panels and data management interfaces

#### Session Activities

- Introduction to Base44: interface tour and key concepts
- Prompt Base44 to scaffold a School Management System dashboard
- Connect the generated interface to Supabase: students table, fees table, grades table
- Build a data table with search, filter, sort and pagination
- Add a form to create new student records with validation
- Export the Base44 project and deploy to Vercel

**End-of-Day Build: Admin dashboard (built in Base44) connected to live Supabase database**

## Day 14 (Thursday) — Google Antigravity — Rapid Cloud Deployment

■ *Kenyan Context: Build a payment confirmation handler — when M-Pesa pays, update order status automatically*

### Learning Objectives

- Deploy applications using Google Antigravity's rapid deployment workflow
- Connect Google Cloud services to your Supabase-backed app
- Understand serverless functions and edge computing concepts

### Session Activities

- Introduction to Google Antigravity: what it is and where it fits
- Deploy a Node.js/Python function that handles business logic
- Build an automated email notification service using Google Cloud + your app
- Use Antigravity to expose an API endpoint (e.g., M-Pesa webhook receiver)
- Connect the deployed function to your Supabase database as a trigger
- Test end-to-end: user action in app → function fires → database updates

**End-of-Day Build: Serverless function deployed via Google Antigravity, connected to your Supabase app**

## Day 15 (Friday) — Week 3 Project — Kenyan E-Commerce Platform

■ *Kenyan Context: Kenya's e-commerce market is growing 18% annually — platforms like Jiji.co.ke and Kilimall prove the demand*

### Learning Objectives

- Build a complete e-commerce web application using all Week 3 tools
- Implement product listing, cart, and order management

### Session Activities

- Full project day: Build 'Soko' — a Kenyan marketplace app
- Features: product listing with images (Supabase storage), user accounts (Supabase auth), shopping cart (local state), order placement (Supabase table), admin panel (Base44)
- Use Google AI Studio to generate 20 realistic Kenyan product listings (fruits, electronics, clothes)
- Deploy to Vercel and share with the class
- Demo day: 5-minute demo per student — show the full user journey
- Feedback: What is missing for this to be a real business?

**End-of-Day Build: Live 'Soko' marketplace app — deployed, functional, with real data**

## WEEK 4 | SAAS PRODUCT, LAUNCH & SCALE

**Theme: Build, launch, and present a complete SaaS product — from idea to paying customers.**

*Tools this week: All 8 Tools · SaaS Architecture · Launch Strategy*

This is your graduation week. You will conceive, build, deploy, and pitch a complete SaaS product. We combine everything from Weeks 1–3 and add the business layer: subscription logic, user dashboards, and a launch strategy tailored to the Kenyan market.

### Day 16 (Monday) — SaaS Architecture & Product Planning

■ *Kenyan Context: Kenyan SaaS ideas: School fee collector, Boda boda fleet tracker, Chama investment manager, Rental property manager*

#### Learning Objectives

- Understand the anatomy of a SaaS business and product
- Design your SaaS product: features, users, revenue model
- Plan your database schema and user flows from scratch

#### Session Activities

- What is SaaS? Examples: Canva, Slack, Notion, and Kenyan equivalents like Pesapal, Kopo Kopo
- The SaaS Stack: Frontend (Lovable/Base44) → Backend (Supabase/Firebase) → Hosting (Vercel/Netlify) → AI (Google AI Studio)
- Product planning workshop: Each student defines their SaaS — problem, user persona, core features, pricing (KES/USD)
- Design database schema with at least 4 tables (users, subscriptions, core entity, activity logs)
- User flow mapping: draw the complete journey from sign-up to first value (first 'aha moment')
- Peer review your product plan — get feedback before building

**End-of-Day Build: Complete SaaS product brief: problem statement, user persona, feature list, database schema, pricing**

### Day 17 (Tuesday) — Building the SaaS Core — Auth + Dashboard + Data

■ *Kenyan Context: Price in KES and USD — many Kenyan SaaS products serve both local and diaspora customers*

#### Learning Objectives

- Build the authenticated core of your SaaS application
- Implement a multi-page dashboard with real data
- Set up subscription tiers and feature gating

#### Session Activities

- Set up Supabase project for your SaaS with RLS enabled from day one
- Build onboarding flow using Lovable: sign up → profile setup → dashboard redirect
- Create the main dashboard: overview stats, recent activity, key metrics
- Implement 'organisations' or 'workspaces' (multi-tenant architecture basics)
- Add a pricing page with Free, Basic (KES 999/mo), and Pro (KES 2,499/mo) tiers
- Use Google AI Studio to generate realistic dummy data for your specific SaaS domain

**End-of-Day Build: SaaS app with working auth, onboarding flow, and dashboard showing real Supabase data**

### Day 18 (Wednesday) — Advanced Features — Notifications, Search & API

■ *Kenyan Context: Integrate with AfricasTalking SMS API to send Swahili notifications to Kenyan users*

#### Learning Objectives

- Implement email notifications and in-app alerts

- Build a search and filtering system across your data
- Expose a simple API endpoint for your SaaS

### Session Activities

- Email notifications using Supabase Edge Functions + Resend (free tier)
- In-app notification bell: unread count, notification list, mark as read
- Full-text search: search across your main data entities
- Advanced filters: date range, status, category — all connected to Supabase queries
- Build a simple API key system so users can access their data programmatically
- Google Antigravity: deploy a webhook endpoint for third-party integrations

**End-of-Day Build: SaaS with email notifications, full search, and at least one working API endpoint**

## Day 19 (Thursday) — Deployment, Performance & Launch Preparation

■ *Kenyan Context: Register a .co.ke domain (from KeNIC) — it builds local trust with Kenyan customers*

### Learning Objectives

- Deploy your SaaS to production with a professional domain setup
- Optimise performance and add analytics
- Prepare your product for real users

### Session Activities

- Final GitHub repository cleanup: tidy branches, write a professional README.md
- README best practice: project description, tech stack, live URL, setup instructions, screenshots
- Final deployment to Vercel with custom domain configuration via GitHub main branch
- Set up Vercel Analytics to track page views and performance
- Add error tracking (Sentry free tier) — know when users hit bugs
- SEO: meta tags, Open Graph images for WhatsApp/Twitter sharing previews
- Soft launch: share live URL with 3 real people outside the class and collect feedback
- Deploy marketing website on Netlify, SaaS app on Vercel — both connected to GitHub repos

**End-of-Day Build: Production-ready SaaS: custom domain, analytics, error tracking, marketing site**

## Day 20 (Friday) — Demo Day — Final Presentations & Graduation

■ *Kenyan Context: Share your demo video on LinkedIn and Twitter with #VibecodingKenya to attract early users*

### Learning Objectives

- Present your SaaS product confidently to an audience
- Demonstrate technical depth AND business thinking
- Celebrate what you have built in 4 weeks

### Session Activities

- DEMO DAY FORMAT: 8 minutes per student
- Minute 1–2: Problem & target user (who hurts? how much?)
- Minute 3–5: Live product demo — show the key user journey end-to-end
- Minute 6–7: Tech stack explanation — which tools did what?
- Minute 8: Traction plan — how will you get your first 10 customers in Kenya?
- Peer voting: Best Product, Most Likely to Launch, Best UX, Most Innovative
- Instructor feedback and next steps for each student
- Certificate of Completion awarded
- Group photo, celebration & next steps discussion

**End-of-Day Build: Polished SaaS product demo + GitHub portfolio with 4 live projects + pitch deck**

## 07 | KENYAN PROJECT IDEAS & INSPIRATION

Every project in this course is inspired by real Kenyan opportunities. Here are curated project ideas across key sectors — pick one that excites you or use them as inspiration to define your own.

### ■ AgriTech

- Crop price tracker — compare maize/bean prices across Nairobi markets
- Weather alert app for farmers in Rift Valley (SMS via AfricasTalking)
- Tractor booking SaaS — connect farmers to equipment owners

### ■ FinTech

- Chama savings group manager with contribution tracking in KES
- M-Pesa statement analyser — categorise spending automatically
- SACCO loan management dashboard

### ■ EdTech

- CBC (Competency Based Curriculum) progress tracker for parents
- Tutoring marketplace connecting Form 4 students to tutors
- School fee payment portal with M-Pesa integration

### ■ HealthTech

- Community health worker field data collection app
- Patient appointment booking for a private clinic
- Medicine stock tracker for rural health centres

### ■ Transport

- Boda boda fleet management SaaS for owners with 5+ riders
- Matatu route explorer for Nairobi newcomers
- Long-distance bus ticket booking platform

### ■ Commerce

- Local artisan marketplace (Maasai beadwork, Kisii soapstone)
- Restaurant food ordering app for Nairobi eateries
- Secondhand goods (mitumba) listing platform

## How You Are Assessed

This is a project-based course. There are no written exams. You are assessed on what you BUILD and how you PRESENT it. Every week ends with a deliverable — a live, working product.

Assessment Item	Weight	Description
Week 1 — Live Website	15%	Deployed, responsive website with 5+ sections. Custom domain bonus.
Week 2 — Web App	20%	Functional app with Firebase auth + Firestore + deployed to Vercel
Week 3 — Full-Stack App	25%	Supabase-powered app with Base44 admin panel. Data relationships correct.
Week 4 — SaaS Demo Day	30%	Complete SaaS product: demo + pitch + tech explanation + launch plan
Participation & Peer Reviews	10%	Daily contributions, feedback quality, peer review completions
<b>TOTAL</b>	<b>100%</b>	<b>Pass mark: 60%. Distinction: 80%+</b>

## Free Tools Summary

Tool	Free Tier Includes	Upgrade Trigger
Lovable	5 projects, unlimited prompts (limited)	More projects / team collaboration
Base44	Free starter plan with core features	Advanced integrations & exports
Google AI Studio	Gemini 1.5 Pro — generous free quota	High-volume API usage
Google Antigravity	Free Cloud Run credits via Google Labs	Production traffic scaling
Firebase	Spark Plan: 1GB storage, 50k auth users/mo	Blaze Plan for production scale
Supabase	Free tier: 500MB DB, 1GB storage, 2 projects	Pro plan at \$25/mo
GitHub	Unlimited public & private repos, GitHub Actions free tier	Large teams / advanced CI-CD pipelines
Netlify	Unlimited static sites, 100GB bandwidth/mo	Forms, functions at higher volume
Vercel	Unlimited personal projects, 100GB bandwidth	Team features & more compute

## After This Course — Your Path Forward

### ■ Launch Your SaaS

Take your Week 4 project and get your first 10 paying customers. Apply to Nairobi-based accelerators like Antler, GrowthAfrica, or iHub.

### ■ Freelance

Offer website and app building services locally. Charge KES 30,000–200,000 per project. List on Upwork, Fiverr, and local Facebook groups.

### ■ Keep Learning

Explore React deeply, learn TypeScript, study system design, and add payments (Stripe + M-Pesa Daraja API) to your stack.

### ■ Teach Others

Become a Vibe Coding Kenya facilitator and run workshops at your university or in your county.

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*"The best time to build a Kenyan tech product was 10 years ago.  
The second best time is right now — with Vibe Coding."*

— Vibe Coding Kenya