

Based on the screenshots you provided of WiFi billing systems in Kenya (Netpap, Kivipay/KiviPay, Cute Profit, and Hotspot Kenya), here is a comprehensive list of stated features organized by category.

## **Billing & Invoicing**

- Automated invoicing and payment reminders (SMS/Email).
- Prepaid and postpaid billing management.
- Automated service suspension and reconnection upon payment.
- Burst rates, data caps, and Fair Usage Policy (FUP) management.
- Discount issuance and plan expiry extension.
- Wallet system for partial, excess, and advance payments.
- Ledger and transaction tracking.
- Expense and bill tracking (basic accounting).
- Export reports to Excel.

## **Payment Integration**

- M-PESA Paybill and Till number integration (Kenya-specific).
- Integration with Kopokopo payment gateway.
- Automated reconnection upon payment confirmation.
- Point of Sale (POS) for hardware/inventory sales.

## **Customer Management (CRM)**

- Customer Self-Service Portal (view bills, pay, manage accounts).
- Inbuilt CRM for customer onboarding and organization.
- Lead tracking and management.
- Customer grouping and segmentation.
- Support ticketing system for installations and complaints.
- Auto-suspend, reconnect, and send reminders.

## **Network Management & Configuration**

- Multi-connection type support: Hotspot, PPPoE, and Static IP billing from a single platform.
- PPPoE customer management and plan assignment.
- Static IP and DHCP monitoring and management.
- Bandwidth plan setup for different connection types.

- Remote router monitoring and management (MikroTik, Ubiquiti, etc.).
- View live traffic, router stats (uptime, CPU, memory).
- Remote router configuration backup and restore.
- Remote router reboot.
- CPE (Customer Premises Equipment) Auto-Configuration via TR-069 protocol for zero-touch setup.
- Network topology mapping.

## **Hotspot Management**

- Fast hotspot gateway designed for walk-in customers.
- No mandatory customer registration; system learns from usage.
- Customizable expiry/captive portal pages.
- Pay-to-use hotspot with automatic connection.

## **Remote Access & Monitoring**

- Netmap Tunnels: Create secure tunnels to routers for remote management without a public IP.
- Free remote access tools for MikroTik, Cambium, and other radios.
- Live bandwidth usage monitoring.
- Network weather maps and resource utilization tracking.
- Incident tracking.

## **Notification & Communication**

- SMS and Email notifications for payments, expiry, outages.
- Bulk SMS campaigns for announcements, greetings, or service alerts.
- Integrated multi-SMS gateway support.
- Affordable SMS pricing (0.70 KES/sms).
- Free WhatsApp gateway for customer communication.
- Personalized SMS with account details.

## **Reporting & Analytics**

- Comprehensive reporting on revenue, customer trends, and service performance.
- Hotspot analytics.
- Unit economics reporting (Churn, Customer Lifetime Value - LTV).

- Accounting reports (Income Statement).

## **Additional Features & Modules**

- Role-Based Access Control (RBAC): Unlimited multi-user dashboards with permissions.
- Compensation Module: Automatically compensate customers for service outages.
- Free Subdomain for customer portal or option to use a custom domain.
- Cloud-Based Architecture: Accessible from anywhere.
- AI-Based Billing (as claimed by Hotspot Kenya).
- Stock/Inventory Management for hardware.
- Free Tier/Freemium Model: Offers free accounts, remote access tools, and billing system trials.
- Referral programs.

## **Infrastructure & Support**

- Free future updates.
- Claimed high uptime (e.g., 99.9%).
- Dedicated customer support.
- Free IT-G8 network device management tool