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Detailed Report: Building an MVP1 System for Result Institute Management and Training

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Executive Summary

This report outlines a comprehensive plan to build the **Minimum Viable Product (MVP1)** for a custom system tailored to Abba Abdouraman, CEO and Founder of Result Institute in Douala, Cameroon. Based on the institute's focus on personal and executive development, leadership training, youth empowerment, and entrepreneurship coaching (as gleaned from online sources like their Facebook, Instagram, and LinkedIn profiles), the system will enable efficient monitoring, management, and delivery of training programs. The core will be a **website** serving as a central hub for "ground follow-up" (real-time tracking of activities, participants, and progress), integrated with tools for video content (via YouTube uploads embedded in a blog section), project coordination, and more.

The MVP1 will prioritize simplicity, scalability, and cost-effectiveness, using open-source or low-cost tools to launch quickly (estimated 4-6 weeks development time). We'll cover system architecture, required resources, domain name, email setup, VPS hosting, and implementation steps. This aligns with Abba Abdouraman's background as a leadership coach and Divisional Officer

(noted for his work in governance, youth development, and programs like "The Power of the Mind" training with JCI Cameroon), ensuring the system supports his mission to nurture competent professionals and emerging leaders.

1. Understanding the Project and Result Institute Context

Result Institute, founded by Abba Abdouraman (a graduate of Université de Ngaoundéré and a prominent figure in Cameroon's leadership scene), specializes in:

- Personal and executive development training.
- Youth empowerment initiatives (e.g., via "You Square").
- Leadership summits and workshops (e.g., partnerships with Verklin Foundation for events like "She Leads Summit").
- Mentoring "change makers and global emerging leaders."

Abba Abdouraman's experience includes roles as Divisional Officer for Buea, training with organizations like JCI Cameroon on topics like "The Power of the Mind," and a passion for building visionary leaders. The institute's online presence is primarily social media (Facebook with 5,800+ likes, Instagram @resultinstitute), with posts on events, motivational content, and promotions. They lack a robust website, which this system will address.

The proposed system will:

- **Monitor and Manage:** Track participant progress, attendance, and program metrics.
- **Train:** Deliver content via blogs, videos, and project coordination tools.
- **Ground Follow-Up:** Provide dashboards for real-time oversight of on-site activities (e.g., workshops in Douala/Buea).

- **Video Integration:** Upload training videos to YouTube and embed them in the website's blog for documentation and accessibility.
- **Project Coordination:** Tools for managing collaborative projects, events, and mentorship programs.

This MVP1 will start as a basic web app, expandable to a full LMS (Learning Management System) in future iterations.

2. MVP1 Scope: Core Features and Prioritization

For MVP1, we'll focus on essential features to launch quickly and gather feedback. Non-essentials (e.g., advanced analytics, mobile app) can be added in MVP2.

Key Features:

- **User Roles:** Admin (Abba/Staff for management), Trainers/Mentors (upload content, track progress), Participants/Students (access materials, submit updates).
- **Dashboard for Ground Follow-Up:** Real-time views of program status (e.g., attendance logs, progress trackers for trainees). Use simple forms for manual updates from on-site staff.
- **Training Management:** Course catalog, enrollment forms, session scheduling. Basic quizzes or feedback forms for training evaluation.
- **Blog Section:** Integrated blog for posting articles, news, and embedded YouTube videos. Videos uploaded to YouTube (via Abba's channel) for hosting, then linked/embedded here for easy access and SEO.
- **Video Workflow:** Admin uploads videos to YouTube (manual or via API integration), then posts embeds in blog with descriptions/tags. Public access for outreach; private for institute members.

- **Project Coordination:** Simple project board (e.g., Kanban-style) for tracking initiatives like summits or mentorships. Features: Task assignment, deadlines, status updates, file sharing.
- **Additional:** User authentication (login/signup), contact forms, basic analytics (e.g., visitor stats, enrollment counts).

Exclusions for MVP1: Payment gateway (add later), full e-learning (video courses with quizzes), mobile app (use responsive web design instead).

Estimated Development Timeline: 4-6 weeks (2 weeks planning/design, 2-3 weeks build/test, 1 week deployment/training).

3. System Architecture

We'll use a **LAMP/MEAN stack** for simplicity and scalability (low-cost, open-source).

High-Level Architecture:

- **Frontend:** React.js for responsive UI (mobile-friendly dashboards/blog).
- **Backend:** Node.js/Express for handling data (user management, follow-up logs, project tasks).
- **Database:** MySQL for storing user data, training records, project details (e.g., participant progress, event logs).
- **Integration:**
 - YouTube API: For embedding videos and basic upload automation (admin logs in to upload, API pulls metadata).
 - Email/SMS API (e.g., SendGrid/Twilio) for follow-up notifications.
- **Deployment:** VPS (see below) with Nginx/Apache server.

- **Security:** HTTPS (free via Let's Encrypt), user roles (JWT authentication), data backups.

4. Required Resources

- **Tools/Software:**
 - Free: VS Code (coding), GitHub (version control), Postman (API testing).
 - Free Tier: YouTube API (free), Database (free MySQL via VPS), Domain/Hosting (see below).
- **Hardware:** Basic laptop/server for dev/testing;
- **Budget Estimate for MVP1:** \$500-1,500 (excluding team salaries) — covers domain, VPS, basic APIs.

5. Domain Name Setup

- **Suggestions:** Based on institute's name and Cameroon focus.
 - Primary: resultinstitute.cm (Cameroon TLD for local appeal, check availability via NIC Cameroon).
 - Alternatives: result-institute.com, abbaresultinstitute.com, resultempowerment.org (if nonprofit angle).
 - Why .cm? Affordable (~\$10-20/year), local branding strengthens African identity.
- **Registration:** Use Namecheap (~\$10-15/year). Include WHOIS privacy (~\$5/year) to protect Abba's details.
- **Setup Steps:** Register → Point DNS to VPS IP → Install SSL certificate (free via Certbot).

6. Email Setup

- **Professional Emails:** Custom domain emails (e.g., abba@resultinstitute.cm, info@resultinstitute.cm).
- **Provider:** Google Workspace or Zoho Mail (free tier for 1-5 users, or \$6/user/month for premium).
- **Features:** Integrated with website for notifications (e.g., follow-up reminders, enrollment confirmations).
- **Setup Steps:**
 - Buy domain.
 - Set up MX records (via domain registrar).
 - Create accounts and link to website forms.

7. VPS Hosting Setup

- **Recommendation:** Hostinger VPS (starting at \$5-10/month, scalable).
 - Specs for MVP1: 1-2 GB RAM, 1 CPU, 25-50 GB SSD (handles 100-500 users easily).
- **Why VPS?** Full control, better than shared hosting for custom apps/databases.
- **Setup Steps:**
 - Sign up, create droplet (Ubuntu OS).
 - Install LAMP/MEAN stack (via SSH: apt install for Linux).
 - Deploy code (Git clone or FTP).
 - Set up firewall (UFW), backups (rsync or DigitalOcean snapshots).
 - Monitor with tools like New Relic (free tier).
- **Cost:** \$5-20/month initial; scale as users grow.

8. Video Integration and Blog Section

- **Workflow:**
 - Abba/Staff uploads videos to YouTube channel (create if none: "Result Institute Official" — free).
 - Embed in website blog: Use WordPress/CMS for blog (easy integration).
 - Automation: YouTube API to auto-pull new videos into blog posts.
- **Blog Features:** Categories (e.g., Leadership Tips, Event Recaps), SEO-optimized, comment section for engagement.
- **Documentation:** Blog posts as "knowledge base" — tag videos for easy search (e.g., "Power of the Mind Training").
- **Accessibility:** Public blog for outreach; private sections for institute members (login required).

9. Project Coordination on Website

- **Features in MVP1:** Trello-like board (using open-source like Taiga.io or custom Kanban in React).
 - Track tasks (e.g., "Follow up with Summit Participants").
 - Assign to staff (e.g., mentors).
 - Status: To-Do, In Progress, Done.
- **Integration:** Link to dashboards for real-time ground follow-up (e.g., Google Forms for on-site data entry, synced to site).
- **Expansion:** Add calendars (Google Calendar embed) for events like "She Leads Summit."

10. Implementation Plan

1. **Planning (Week 1):** Meet Abba visit; define requirements (e.g., user flows, data needs). Wireframe website (Figma free).
2. **Design & Development (Weeks 2-4):** Build frontend/backend; integrate YouTube/blog; test follow-up dashboards.
3. **Testing (Week 5):** Internal tests; Abba beta test (fix bugs).
4. **Deployment & Training (Week 6):** Launch on VPS; train Abba/staff (virtual session on using dashboards, uploading videos).
5. **Post-Launch:** Monitor for 1 month; gather feedback for MVP2 (e.g., add mobile app).

Risks & Mitigations: Data privacy (GDPR-compliant for Cameroon users); backups (daily); scalability (VPS easy to upgrade).

This MVP1 will empower Result Institute to scale training efficiently while documenting via videos/blog.

Signed,

Mohamad Siysinyuy Banbong

General Manager Camsol Technologies ltd