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CSCI-P445

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Feasibility Report

CACODEV Non-Profit Management System

1. Product

CACODEV is a system we are building to help the Congolese Association for Congo Development run more smoothly. The platform combines organizational foundations in one location, including member administration, fundraising, planning events, meeting coordination, and record-keeping. By removing the need for manual labor or several instruments, this system streamlines the process of planning projects, collecting donations, and keeping in touch with members and contributors.

2. Technical Feasibility

From the technical side, the project is very possible. We are implementing the backend with Spring Boot and the frontend with Angular. These technologies are powerful, familiar, and areas our team has previously engaged with. The system will be built using either PostgreSQL or MySQL for database, and process transactions through Stripe, known for their safety and reliability. Deployment will be managed using Docker, alongside cloud hosting solutions such as AWS, Azure, or Google Cloud. Since these tools are primarily familiar with our team, we expect the system to perform reliably.

3. Social Feasibility

The people who will use the system are mainly administrators, members, and donors. Administrators will have less paperwork to deal with, though they may need some short training to get used to the new setup. For members and donors, the system needs to promote the situation, like registering for events or contributing to fundraising campaigns. No one should move or lose his role, the same staff can handle things after they get comfortable with the system. To make the transition more fluid, we plan to give early demos, listen to user feedback, and guide people step by step.

4. Economic Feasibility

The main costs are in development time, cloud hosting, and Stripe's small transaction fees. Running the system won't be too expensive.

- Direct benefits: Reduced time wasted on manual work, minimized errors, and no need for as much paperwork.
- Indirect benefits: Stronger trust from donors, improved communication with members, and more transparency.

With these benefits, the system should quickly make up for its costs, especially because it will help the organization fundraise more effectively.

5. Market Research

Non-profits around the world are turning to digital platforms to handle their work. Tools such Wild Apricot and Neon CRM exist, but they are often expensive and have not been reported by smaller or local organizations in mind. CACODEV stands out by offering an affordable, adaptable solution that can be customized to meet specific requirements. Our research shows many smaller associations want a tool that is not too costly but still powerful, which means there is a clear need for a system like CACODEV.

6. Alternative Solutions

- Option 1: Use existing platforms like Wild Apricot. These are ready-to-use but can be very costly and don't allow much customization.
- Option 2: Build a smaller web app that only handles memberships and fundraising. This would be faster to develop but would not provide long-term value since it leaves out other important features.

Our choice is to continue building CACODEV because it balances cost, customization, and long-term usefulness better than the other options.

7. Project Risks

Some risks we need to keep in mind are:

- Technical risk: Payment integration might give issues, or deployment might be harder than expected.
- User risk: Some users may resist switching to a digital system at first.
- Security risk: Data breaches or unauthorized access could happen If not properly managed.
- Financial risk: Hosting costs could rise, or the system may not get adopted widely.

We can reduce these risks by testing early, training users, doing regular security checks, and starting with a small rollout before going bigger.