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Step-by-Step Instruction Plan to Build the Boomerang Cycle Website and Mobile Apps

Phase 1: Preparation and Planning

- 1. Finalize Pseudocode (Categories 1–15)
 - o Ensure completeness, accuracy, and alignment with the project vision.
 - Confirm each category covers all core functions (registration, donation processing, cycles, payouts, compliance).

2. Define Technology Stack

- Frontend: HTML, CSS, JavaScript (React.js or Angular), plus responsive frameworks (Bootstrap/Tailwind).
- o **Backend**: Node.js, Python (Django/Flask), or PHP.
- o **Database**: PostgreSQL, MySQL, or MongoDB.
- Payment Gateway: Stripe, PayPal, cryptocurrency APIs.
- Hosting/Infrastructure: AWS, Google Cloud, or Azure.

3. Create a Project Roadmap

- Define phased versions:
 - *Version 1 (MVP)*: Registration, donations, and UI.
 - Version 2: Core donation cycles and payouts.
- Establish milestones, dependencies, and resource allocation.

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4. Set Up Development Environment

- o Install IDEs (VS Code), DB management tools, and version control (Git).
- Create a GitHub repository for collaboration and CI/CD integration.

Phase 2: Frontend Development (MVP: User Interface)

5. Wireframes & Mockups

- Create designs with Figma or Adobe XD for homepage, registration, dashboard, donation history, etc.
- o Prioritize usability, accessibility, and responsive design.

6. **Develop UI Components**

- o Implement static layouts (HTML/CSS/JS).
- Add placeholders for dynamic content (e.g., donation history).

7. Implement User Registration & Login

- o Build secure signup/login forms with validation.
- Support email, social logins, and secure password reset.
- Connect to backend APIs for account creation and storage.

8. Build Dashboard & Navigation

- o Create a dashboard showing donation metrics, cycle status, and notifications.
- o Implement a sidebar/menu for easy navigation.

9. Test Frontend

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- Verify responsiveness across devices.
- o Ensure cross-browser compatibility.

Phase 3: Backend Development (Core Functionality)

10. Backend Server Setup

o Configure Node.js/Django server, connect to DB, and define API endpoints.

11. Donation Processing

- Translate pseudocode into code:
 - Accept \$6.15 payments (\$6 donation + \$0.15 fee).
 - Split into six \$1 micro-donations.
- Queue donations for cycle assignment.

12. Dynamic Interval Creation

- o Implement logic for 1,440 intervals per 24h cycle.
- Ensure 1,386 donors = 1 interval (6 × 231).

13. Recipient Selection

- o Algorithmically assign recipients using audited randomization.
- Apply ratios: 1:231 standard, 1:50 premium.

14. Multiple Cycles Handling

- o Trigger new cycles when maximum interval/donor thresholds are reached.
- o Prevent overlaps or duplication.

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15. Integrate Payment Gateways

- Securely connect Stripe/PayPal/crypto APIs.
- Validate and test full payment flows.

Phase 4: Testing and Debugging

16. Unit Testing

- Verify individual modules (e.g., registration, donation split).
- Use automated frameworks (Jest, PyTest).

17. Integration Testing

o Confirm smooth interaction between frontend, backend, and DB.

18. Load/Stress Testing

- Simulate high volumes (millions of donors).
- o Identify bottlenecks, latency, or scaling issues.

19. Bug Fixing & Optimization

Resolve defects and refine code for security, speed, and maintainability.

Phase 5: Deployment and Launch

20. Deploy to Staging

Launch staging environment for final QA and User Acceptance Testing (UAT).

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21. Prepare Production Infrastructure

- o Configure servers, HTTPS, WAF/firewalls, and backups.
- Establish monitoring and disaster recovery procedures.

22. Official Launch

- Deploy production version.
- Announce launch through social media, influencer campaigns, and email outreach.

Phase 6: Post-Launch Activities

23. Monitor System Performance

o Track uptime, latency, donation throughput, and anomaly alerts.

24. Collect User Feedback

Use in-app surveys, reviews, and support tickets.

25. Iterative Improvement

- Release regular updates addressing bugs and feature requests.
- Continuously enhance transparency and user experience.

Key Deliverables by Phase

- **Phase 1**: Finalized pseudocode, tech stack, project roadmap, dev environment.
- Phase 2: UI with signup/login, dashboard, and navigation.

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- Phase 3: Backend for donation cycles, processing, and payouts.
- Phase 4: Fully tested system.
- **Phase 5**: Production-ready website & app.
- **Phase 6**: Ongoing monitoring, scaling, and improvement.

Objective

Deliver a **global micro-donation platform** (web + mobile) that enables \$6 donations to be fairly redistributed with full transparency, security, and compliance — not as a lottery, but as a **cycle of generosity**.

Functional Requirements

- User Registration: Email/social signups, secure login, 2FA, payout info collection.
- **Donation Processing**: \$6 donations + \$0.15 fee, six \$1 micro-donations, secure payment gateways.
- Cycle Management: Dynamic intervals, fair allocation (1:231 standard, 1:50 premium).
- Payout Distribution: Transparent, audited, and trackable.
- Premium Membership: \$100/year, enhanced ratio (1:50).
- Localization: Multi-language (29+) and multi-currency with real-time FX conversion.
- Scalability: Tens of millions of donors, multi-region architecture.
- Security & Compliance: Encryption, fraud detection, GDPR/AML compliance.
- Transparency & Analytics: Real-time dashboards, detailed reports.

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Mobile Apps: Native iOS/Android with push notifications.

Development Phases

- Phase 1 (MVP): Registration, donations, cycles, simple dashboard.
- Phase 2: Premium membership, localization, advanced transparency features.
- Phase 3: Optimization, scaling, global compliance readiness.

Technical Stack

- Frontend: React.js / Angular
- Backend: Node.js / Python (Django/Flask)
- Database: PostgreSQL / MySQL / MongoDB
- Mobile Apps: React Native / Flutter
- Hosting: AWS / GCP / Azure
- Payments: Stripe, PayPal, Crypto APIs

Testing & Deployment

- Testing: Unit, integration, stress, and UAT.
- **Deployment**: Staging → Pilot Launch → Full Production.

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Timeline & Milestones

- Weeks 1-4: Requirements & setup.
- Weeks 5–12: MVP development.
- Weeks 13–16: Testing & pilot.
- Weeks 17–24: Advanced features & scaling.

Next Steps

- 1. Confirm finalized pseudocode categories.
- 2. Define and lock the technology stack.
- 3. Begin Phase 1 (Preparation & Planning).
- 4. Kick off Phase 2 (Frontend MVP).

If you have any questions or improvements, please send an email to: theboomerangcycle@gmail.com

Thank you, Eldad Rubin/