Process Flowchart (Front-End and Back-End Process)

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1. Onboarding Phase (Front-End and Back-End Operations)

Front-End:

- **UI Interaction**: Displays **sign-up forms** for founders and investors with essential data input fields.
- **Visual Setup**: Provides a **gamified profile setup** for founders and investors, allowing visual customization.
- **Multi-Step Forms**: Guides users through minimal and progressive form fields, collecting only critical data.

Back-End:

- **User Data Storage**: Saves user information (name, industry, preferences) into the **database**.
- **AI Profile Creation**: AI generates personalized roadmaps and curated startup suggestions based on user input.
- **Authentication**: Manages secure user authentication, session management, and password storage.

Flow:

1. User interacts with sign-up form (front-end) → 2. Data sent to back-end → 3. Back-end processes input, generates roadmaps/startup suggestions → 4. Front-end displays gamified profile and recommendations.

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2. Daily Tasks and Roadmap/Startup Dashboard (Front-End and Back-End Operations)

Front-End:

- **Dynamic Task List UI**: Shows personalized daily tasks for founders or curated startup suggestions for investors.
- **Real-Time Dashboards**: Displays **progress bars**, **XP accumulation**, **milestones**, and **avatars**.
- **Push Notifications**: Sends alerts about tasks or milestone achievements.

Back-End:

- **AI Task Generation**: AI generates daily tasks based on user input and history.
- **Startup Progress Monitoring**: Continuously tracks milestones and performance for startups.
- **Data Synchronization**: Ensures real-time updates for XP, tasks, and milestones across the platform.

Flow:

1. AI generates tasks/startup suggestions (back-end) → 2. Data sent to front-end → 3. User interacts with tasks/milestones (front-end) → 4. Back-end updates progress.

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3. Gamification Elements (Front-End and Back-End Operations)

Front-End:

- **Gamified Visuals**: Renders progress bars, evolving avatars, XP displays, badges, and leaderboards.
- **Achievements Display**: Shows dynamic notifications for rewards and progress.
- **Streak Alerts**: Notifies users when they are near completing a streak or reward milestone.

Back-End:

- **XP & Badge Calculation**: Updates XP, badges, and rewards based on real-time activity.
- **Leaderboard Updates**: Tracks and updates leaderboard positions based on XP and engagement metrics.
- **Avatar Evolution**: Updates visual representation of business avatars when users achieve milestones.

Flow:

1. User completes tasks or milestones (front-end) → 2. Back-end updates XP, badges, and leaderboard → 3. Front-end displays updates in real-time with visual progress.

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4. Milestone-Based Funding and Notifications (Front-End and Back-End Operations)

Front-End:

- **Milestone Alerts**: Displays notifications when startups achieve key milestones for investors to review.
- **Funding Interaction UI**: Investors can easily decide to invest or follow startups based on **visual cues**.
- **Dashboard Updates**: Displays real-time funding progress and milestones on investor dashboards.

Back-End:

- **Milestone Monitoring**: Continuously tracks startup progress and milestone achievements.
- **Funding Allocation**: Manages investment transactions and releases funding tranches based on milestones.

- **Automated Reports**: Generates investment reports for investors to review funding performance and progress.

Flow:

1. Back-end monitors milestones and sends alerts to the front-end → 2. Investors interact with funding options (front-end) → 3. Back-end processes funding and updates investor dashboard.

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5. Mentorship and Collaboration (Front-End and Back-End Operations)

Front-End:

- **Mentorship Requests**: Provides an interface for founders to request mentorship from investors and for investors to set office hours.
- **Collaboration Tools**: UI elements for messaging, chat, or video calls.
- **Mentorship Leaderboards**: Shows mentorship XP, rankings, and badges for active mentors.

Back-End:

- **Mentorship Matching**: AI matches founders and investors based on profiles and needs.
- **Session Scheduling**: Manages mentorship scheduling and tracks hours.
- **Mentorship XP Calculation**: Updates leaderboards and XP based on mentorship activities.

Flow:

1. Founder requests mentorship (front-end) → 2. Back-end matches and schedules session → 3. Front-end displays mentorship progress and updates leaderboard.

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6. Compliance, KYC/AML, and Legal Operations (Front-End and Back-End Operations)

Front-End:

- **Compliance Notifications**: Displays alerts for KYC/AML checks and document submission.
- **Document Upload UI**: Simplified interface for uploading verification documents.
- **Compliance Badge Display**: Shows earned compliance badges after verification.

Back-End:

- **KYC/AML Processing**: Verifies documents and runs compliance checks with third-party services.
- **Compliance Tracking**: Tracks and stores compliance status for each user.
- **Document Management**: Stores uploaded documents and updates verification status.

Flow:

1. User uploads documents (front-end) → 2. Back-end processes and verifies compliance → 3. Front-end displays compliance badges.

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7. Exit Strategy and Pivot Management (Front-End and Back-End Operations)

Front-End:

- **Exit Notifications**: Displays exit-related alerts (e.g., acquisition, new funding round) for investors.
- **Pivot UI**: Simplified interface for founders to pivot business strategy.
- **Exit Strategy Dashboard**: Provides options for investors to manage share sales or exits.

Back-End:

- **Exit Tracking**: Monitors startup exits (acquisition, liquidity events) and investor opportunities.
- **Pivot Strategy Update**: Adjusts roadmaps and milestones based on founder pivots.
- **Exit Processing**: Handles funding withdrawals, share sales, and exit transactions for investors.

Flow:

1. Back-end monitors exits or pivots and sends alerts to the front-end → 2. Users interact with exit options or pivot strategy (front-end) → 3. Back-end processes exits/pivots.

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8. Data Security and Privacy (Front-End and Back-End Operations)

Front-End:

- **Privacy Settings UI**: Allows users to configure data visibility and privacy settings.
- **Data Encryption**: Ensures secure data transmission between front-end and back-end.

Back-End:

- **Data Encryption**: Manages encryption for all user data stored in the database.
- **Security Audits**: Performs regular security checks to ensure compliance with privacy laws.
- **Data Privacy Management**: Tracks how user data is processed and allows users to view data usage.

Flow:

1. User adjusts privacy settings (front-end) → 2. Back-end updates privacy preferences and secures data → 3. Regular security audits performed on data storage.

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9. Advanced Analytics and Predictive Models (Front-End and Back-End Operations)

Front-End:

- **Data Visualizations**: Provides visual insights into startup performance, founder progress, and investment opportunities.
- **Predictive Analytics Interface**: Shows predictive models of startup growth and market trends.
- **Actionable Insights**: Displays AI-suggested actions based on performance and analytics.

Back-End:

- **Predictive Models**: Runs AI-based predictive algorithms to forecast startup performance and investor portfolio growth.
- **Data Aggregation**: Collects and processes internal/external data to refine predictions.
- **Insight Generation**: AI generates actionable insights based on user performance and market trends.

Flow:

1. AI runs predictive models (back-end) → 2. Insights sent to front-end → 3. User interacts with visual analytics and insights (front-end) → 4. Back-end continuously updates predictions.

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10. Scalability and Flexibility (Front-End and Back-End Operations)

Front-End:

- **Third-Party Integrations UI**: Allows founders and investors to connect external tools (e.g., accounting software, CRMs).
- **Flexible UI Components**: Ensures front-end can accommodate new features and updates seamlessly.

Back-End:

- **API-Driven Architecture**: Supports third-party integrations through APIs (e.g., financial tools, external analytics).
- **Cloud Infrastructure**: Uses scalable cloud-based systems to handle growing data and user traffic.
- **Microservices**: Implements microservices for scaling independent modules like AI, task generation, and gamification.

Flow:

1. User interacts with third-party integrations (front-end) → 2. Back-end processes integrations via APIs → 3. Back-end ensures scalability through cloud infrastructure.