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SERVICE DEFINITION

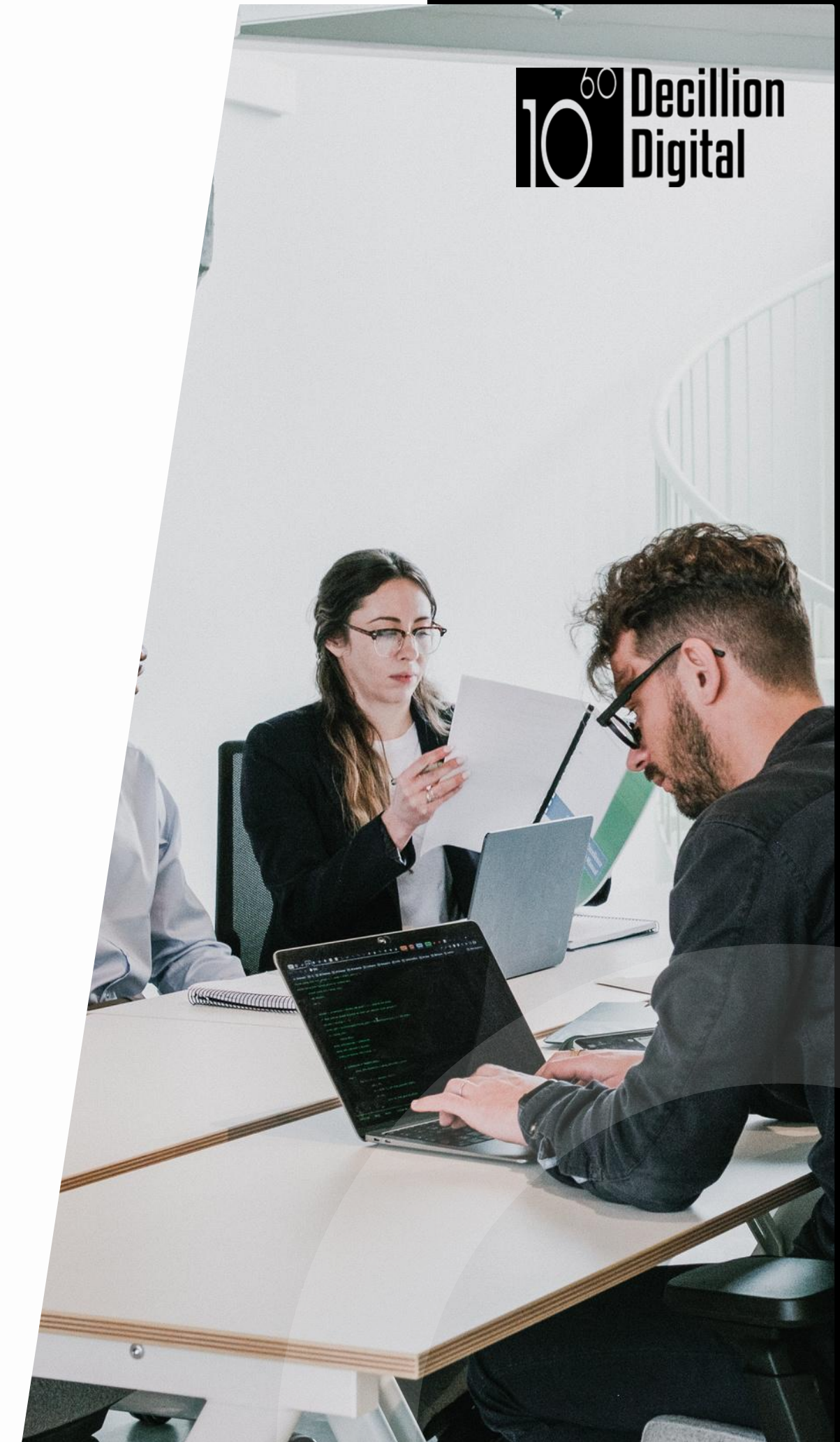
PHP Development

INTRODUCTION

Specializing in PHP technologies like Symfony and Laravel, we offer comprehensive services for bespoke web applications—from planning and rapid prototyping to secure development and maintenance. Our expertise includes API integration and creating efficient forms for data collection.

SERVICE FEATURES

- Modern PHP 8 architecture (Symfony, Laravel)
- Databases (MySQL, MariaDB, PostgreSQL, SQLite, MongoDB)
- Search technology (Elasticsearch, Apache Solr)
- High performance applications and web caching (Varnish, Cloudflare)
- Integration with third-party systems
- Rapid development through Studio 24 PHP and front-end tools
- Agile and PRINCE2 qualified project managers
- Data privacy and GDPR guidance
- Cloud hosting AWS, GCLOUD and Azure
- 24/7/365 support available



SERVICE BENEFITS

- Strong and experience development and project management team
- Bespoke solutions to best meets the requirements of organisation's users
- UX/UI design capabilities ensures a first-class user experience
- Improved User-Efficiency & Processes for High standard, responsive applications
- Flexible resource profile available
- Development across multiple technology platforms
- Latest technology and architectural development patterns and practices



DEVELOPMENT APPROACH (Continued)

1. Requirements Gathering

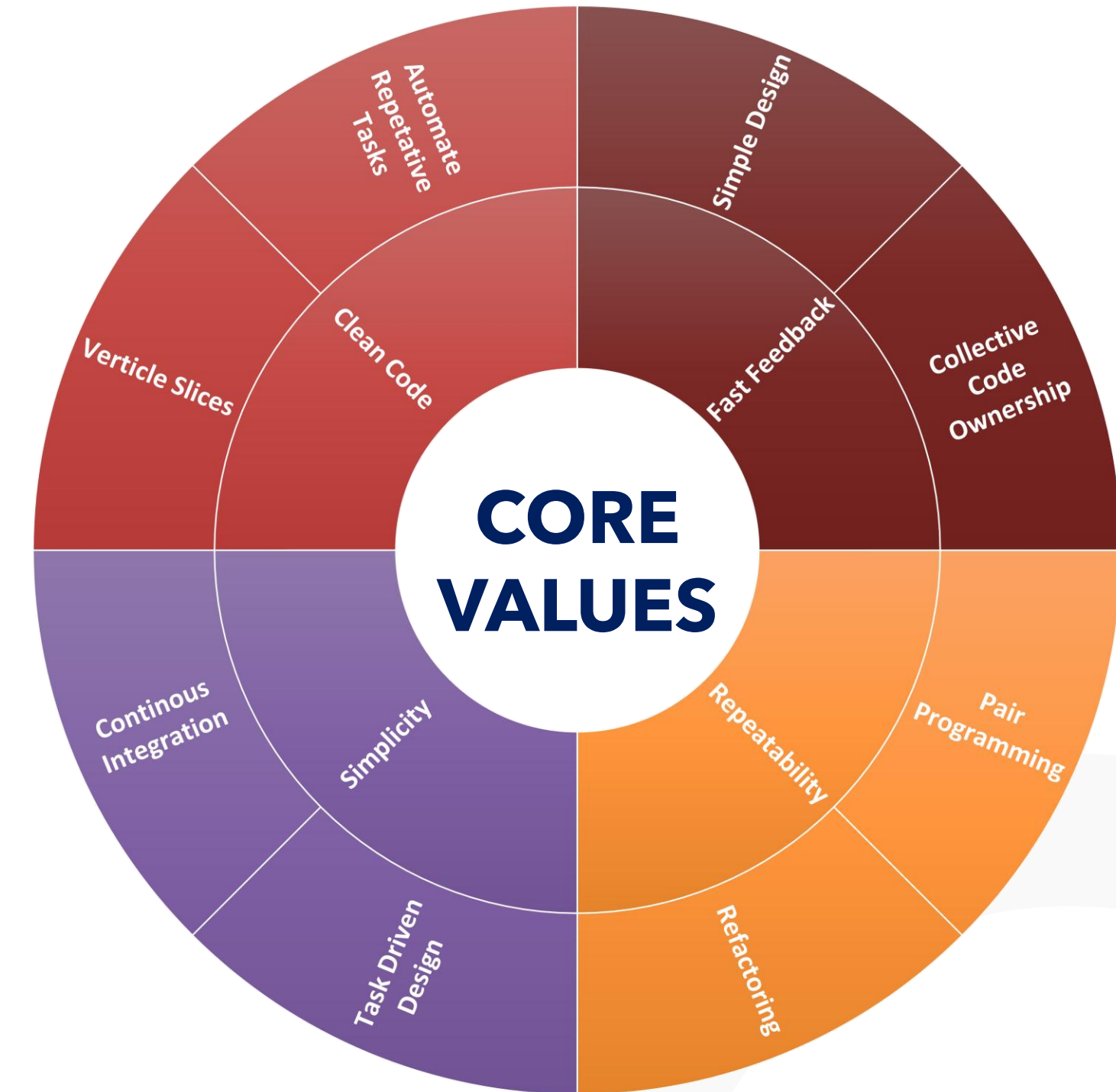
- Begin by understanding the project requirements:
- Define the Scope: Clarify the project's objectives, functionalities, and user interactions.
- Identify Stakeholders: Ascertain who will utilize the system and how they will interact with it.
- Document Requirements: Thoroughly document both functional and non-functional requirements.

2. Planning and Design

- Architecture Design: Choose a suitable architecture model, such as MVC or microservices.
- Database Design: Design your database schema, focusing on entities, relationships, and normalization.
- Interface Design: Draft user interfaces with a strong emphasis on good UX design principles.

3. Development Environment Setup

- Local Development: Establish a local development environment using tools like XAMPP or Docker.
- Version Control: Implement Git for version control and utilize platforms like GitHub or Bitbucket for repository management.
- Dependency Management: Employ Composer for managing project dependencies.



DEVELOPMENT APPROACH

4. Coding Standards

- Follow PSR Standards: Adhere to PHP-FIG PSR standards for writing clean and uniform code.
- Comment and Document: Ensure to write insightful comments and maintain up-to-date documentation alongside the code.
- Security Practices: Secure database access with prepared statements, sanitize inputs, and handle sessions securely.

5. Testing

- Unit Testing: Conduct unit tests using frameworks such as PHPUnit.
- Integration Testing: Evaluate the interactions between various parts of the application.
- Performance Testing: Assess and optimize the performance of the application as necessary.

6. Version Control and Branching

- Branching Strategy: Apply a branching strategy suitable for the project scale, like Git Flow.
- Code Reviews: Perform code reviews to ensure quality and detect issues early.

7. Deployment

- Continuous Integration/Deployment: Utilize CI/CD tools like Jenkins, GitLab CI, or GitHub Actions for automated testing and deployment.
- Environment Management: Keep distinct environments such as staging and production.
- Backup Strategies: Develop and maintain regular backup procedures for both code and databases.

8. Maintenance and Upgrading

- Bug Tracking: Utilize tracking tools like JIRA or Trello.
- Upgrade Dependencies: Regularly update PHP and other libraries to their latest versions.
- Performance Monitoring: Monitor application performance using tools like New Relic or Kibana.

9. Scaling

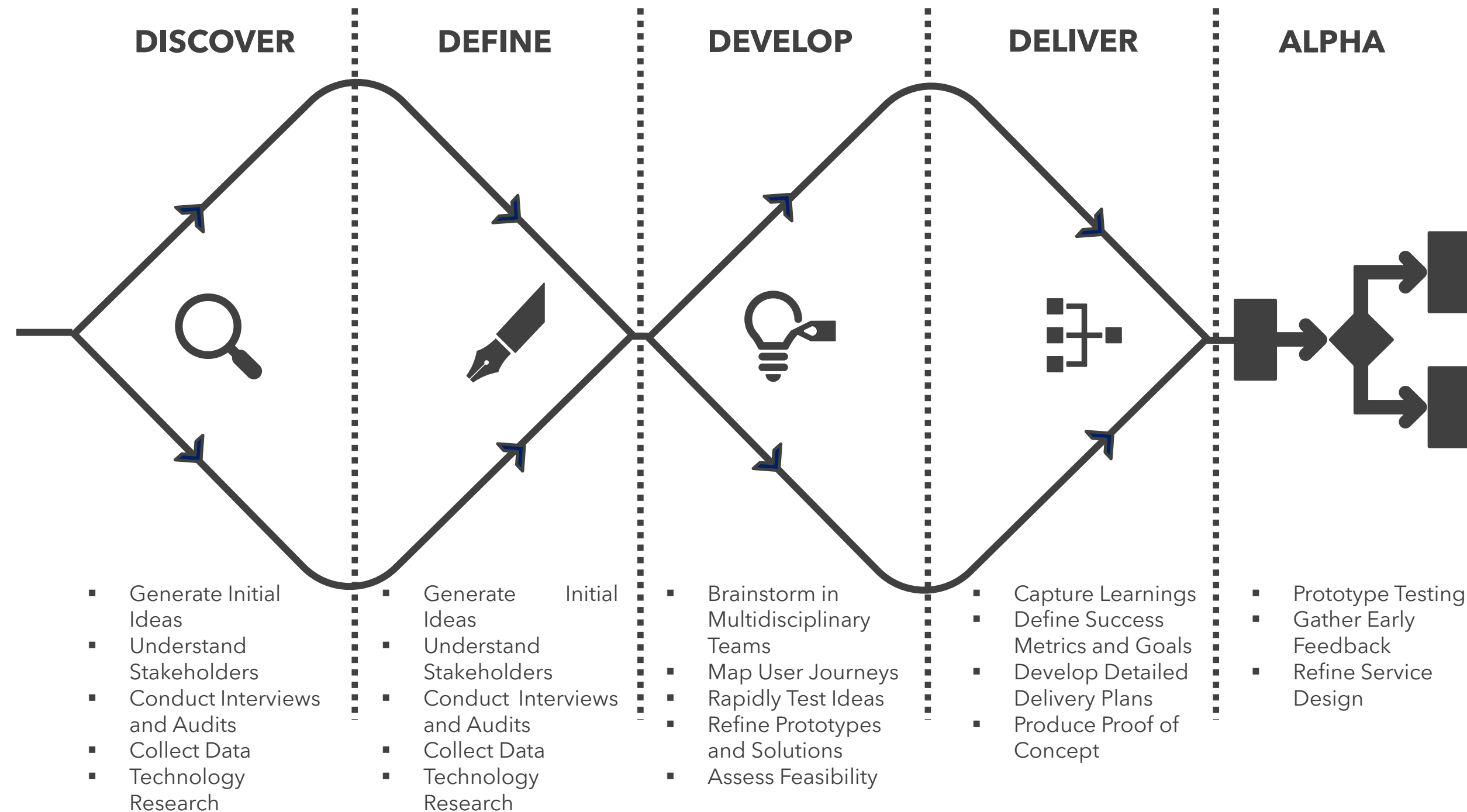
- Optimize Code: Continuously refine code and optimize database queries to enhance performance.
- Scale Infrastructure: Implement load balancers and scale out (add more servers) or up (enhance server capabilities) as needed.

10. Documentation and User Training

- End-user Documentation: Develop comprehensive manuals or help documents for end-users.
- Developer Documentation: Keep a detailed developer's guide that encompasses architecture, navigating the codebase, and troubleshooting techniques.

DESIGN APPROACH

Our Double Diamond framework outlines a structured approach to design by researching user needs, determining relevant metrics, and exploring both technological and policy constraints.



ABOUT US

As a Decillion we partner in bridging technology and business innovation. With an extensive background across diverse technological verticals, we are dedicated to empowering your business through tailored digital solutions.

Our Expertise

Microsoft Dynamics	Technical Consulting	Azure DevOps	Technology Training	E-commerce Solutions
We specialize in MS Dynamics to streamline CRM and ERP systems, enhancing efficiency and productivity for businesses of all sizes.	Our expert consultants are adept at diagnosing your technical challenges and crafting strategic solutions that align with your business objectives.	We leverage Azure to improve your software development lifecycle, enabling faster deployment, reliable operations, and seamless integration of disparate systems.	Decillion Digital offers comprehensive training programs designed to upskill your team and keep them abreast of the latest technological advancements.	We create robust e-commerce platforms tailored to your specific needs, ensuring scalable, secure, and user-friendly shopping experiences.

At Decillion, we believe in the power of technology to transform businesses. Our approach combines innovative strategies with cutting-edge technologies to deliver measurable results. We are committed to providing exceptional service and building long-lasting relationships with our clients.

OUR MISSION

To enable businesses to achieve their full potential through the strategic implementation of technology.

OUR MISSION

To be a leading provider of technology solutions, known for our commitment to innovation, quality, and client satisfaction.

Explore how Decillion Digital can drive your business forward. Connect with us today to learn more about our services and how we can assist you in achieving your technological and business goals.

