Data Flow Summary

1. **Requirements Input –** User provides specification**.**

2. **Decomposition –** Task Breakdown Engine generates subtasks.

3. **Generation –** Orchestrator dispatches subtasks to agents.

4. **Validation –** Processing Layer runs tests and static checks.

5. **Correction –** Errors trigger the correction loop.

6. **Finalization –** File Generator organizes outputs into a complete project.

7. **Delivery –** Results are presented to the user or exported to repositories.

Key Advantages

- Layered design ensures clear separation of concerns.

- Feedback loops guarantee higher quality and reliability of generated artifacts.

- Specialized agents improve accuracy and consistency across modules.

- Extensibility allows for future scaling, integration of external models, and plugin-based customization.