Agile in DNA

This document outlines the agile methodology in software development in the context of DNA. Readers can understand the agile process and use of agile framework while working on DNA using this document.

## Introduction

Agile methodology is an approach towards software development that emphasizes on building software that works over other peripheral activities that are otherwise deemed equally important during software development.

### Values of Agile Methodology

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| --- | --- | --- |
| Individuals and Interactions | Over | Processes and Tools |
| Working Software | Comprehensive Documentation |
| Customer Collaboration | Contract Negotiation |
| Responding to Change | Following a Plan |

This does not mean that the items on the right are not important. It simply means that the items on the left take precedence and when these items are done, one should focus the items on the right.

### Principles of Agile Methodology

1. **Customer satisfaction** by early and continuous delivery of valuable software.
2. Welcome changing requirements, **even in late development**.
3. Deliver working software frequently (sometimes even in weeks).
4. Close, daily cooperation between business people and developers.
5. Projects are built around motivated **individuals, who should be trusted**.
6. Face-to-face conversation is the best form of communication (co-location).
7. **Working software is the primary measure of progress.**
8. Sustainable development, able to maintain a constant pace.
9. Continuous attention to technical excellence and good design.
10. Simplicity—the art of maximizing the amount of work not done—is essential.
11. Best architectures, requirements, and designs emerge from self-organizing teams.
12. Regularly, the team reflects on how to become more effective and adjusts accordingly.

## How Agile Methodology is Used in DNA

DNA is a platform that helps users gain valuable business insights that empowers them to make better decisions in every aspect of their business.

To achieve this, DNA uses the following technology stack:

1. Power BI for visualization
2. PHP for User Interaction
3. HTML/CSS for interface
4. Snowflake/SQL Server for DB
5. MuleSoft for inter-platform communication

Each of the technologies used utilize their teams of developers who develop and deliver the software and/or their components.

### Points of Contact

The following points of contact are to be communicated with during the course of the project:

|  |  |
| --- | --- |
| **Aspect** | **Point of Contact** |
| Business Analyst | Lead Business Analyst – DNA |
| Front End | Manager – Front End (DNA) |
| Database Manager | Technical Lead – Database Management (DNA) |
| Communications and API | Technical Lead – MuleSoft |
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### Agile Framework(s) Used in DNA

We use the scrum framework in DNA. This framework is useful for us to deliver new functionalities, dashboards, and fixes in regular development cycles.

Read about what is scrum here: <https://www.atlassian.com/agile/scrum>

## Boards we Use in DNA Development