

BlackLogic Engineering Principles

*Guiding all BlackLogic
Technologists*

1 Software Development Lifecycle (SDLC)

No system is built without a lifecycle. Follow all stages:

Problem identification

Requirement analysis

System design

Development

Testing

Deployment

Maintenance & iteration

Coding without lifecycle thinking is guessing, not engineering.

2 Problem-Solving Mindset

Engineers exist to solve problems, not write code.

Always ask:

What problem does this solve?

Who benefits from this solution?

What happens if it fails?

A well-defined problem is already half solved.

3 Backend Engineering Principle

One backend language only:

Python.

Consistency, security, and maintainability are mandatory.

4 Front-End Engineering Principle

Approved stack:

HTML5

CSS / Tailwind CSS

Vanilla JavaScript

*Strong fundamentals
outlive frameworks.*

5 Layout Guide

Structure guides

understanding. Content
must flow logically and
avoid clutter.

Layout is visual logic.

6 Navigation Discipline

Use only approved navigation types:

hamburger, top, bottom, side. Maximum 6 items per navigation.

Too many options is a usability bug.

7 Logo & Identity

Identity must be visible but not dominant. Minimum size: 250px, Maximum size: 350px. Placement must be consistent.

Brand supports the system – it does not compete with it.

8 Description & Action Buttons

Every screen must clearly indicate the next action:

One primary action per screen

Clear, direct descriptions

No decorative actions

Unclear actions slow systems and users.

9 Color Palette

Color communicates system state. Use limited palette for actions, warnings, and feedback.

Color misuse is a logic error, not an aesthetic one.

10 Consistency

Actions and visuals must be consistent throughout the system.

Inconsistency breaks trust faster than bugs.

11 Forms

Forms must prevent user errors. Use minimal inputs, clear validation, and helpful error messages.

Bad input leads to bad systems.

1 **2** Icons & Images

Visuals must support meaning. Icons must be intuitive. Images must add context.

If it doesn't help, remove it.

1 **3** UI / UX Precision

Alignment, spacing, and interactions must be precise and predictable.

Small UI mistakes signal deeper system problems.

1 4 Testing & Debugging

Test continuously, debug systematically, and validate before deployment.

Unfixed bugs grow into system collapse.