Project

The **Project** involves research and development in one of the *Topic Areas* included in the **Survey**.

1 Requirements

- Formulation of a specific development initiative or integration goal concerning technologies in the selected Topic Area

- Literature review of academic papers, industry reports, and relevant documentation of software ecosystem

- Proposed changes for development features/bugfixes or integration testing

- Testing results and review with both qualitative and quantitative components

- Future directions and possible related areas of construction

2 Deliverables

- Report & Documentation

  - Abstract - Development summary, objectives, and next steps.
  - Overview - Solution outline, relevant literature, proposed system.
  - Design - System capabilities, interactions, integration.
  - Architecture - Software components, interfaces, implementation.
  - Conclusion - Success/Failure results, outputs, caveats/cautions.
  - Bibliography - Reference citations (Chicago style - AMS/AIP or ACM/IEEE).

- Code & Data

  - Reference Documentation - Software commands, inputs, installation.
  - Testing Framework - Cases, harness, coverage.
  - Data Sources - Links, downloads, access information.
  - Source Code - Listings, documentation, dependencies (open-source).