

General Technical Guidelines & Expectations

Technology Stack (Recommended, Not Mandated):

To ensure clean architecture and long-term utility, we recommend using FastAPI for the backend and React or Streamlit for the frontend, with clearly defined APIs and JSON formats.

Note: This is not a mandate. Teams are free to use the tools and frameworks they are most proficient in for AI/ML, provided the final output meets the functional requirements.

Data Strategy:

Synthetic Data Generation: Teams are expected to generate their own synthetic datasets based on the "Sample Datasets" outlined in each theme (e.g., vessel logs, cargo declarations). The quality of this generated data is an integral part of the challenge and will be a key metric for judging.

External Feeds: Teams are encouraged to integrate real-world open data (e.g., AIS data, public weather feeds) to enhance the quality and realism of their solution.

Integration Mocks:

For themes requiring system integration (e.g., RFP Builder, Resume Screening), teams should use placeholders or mock integration points rather than connecting to live enterprise backends.