

Instantiate Architectural Elements, Allocate Responsibilities, and Define Interfaces

Design Decisions and Locations	Rationale
Implementation of Proxy server to oversee the transition to backup	When the system fails due to outage or data loss, the proxy element handles the majority of the work in ensuring a smooth transition to the backup.
Utilizing Node.js Non-blocking I/O operations	Non-blocking I/O operations allow a single process to serve multiple requests at the same time (CRN-1). Rather than the process being blocked and waiting for I/O operations to complete, the I/O operations are passed on to the system, so that the process can execute the next piece of code.