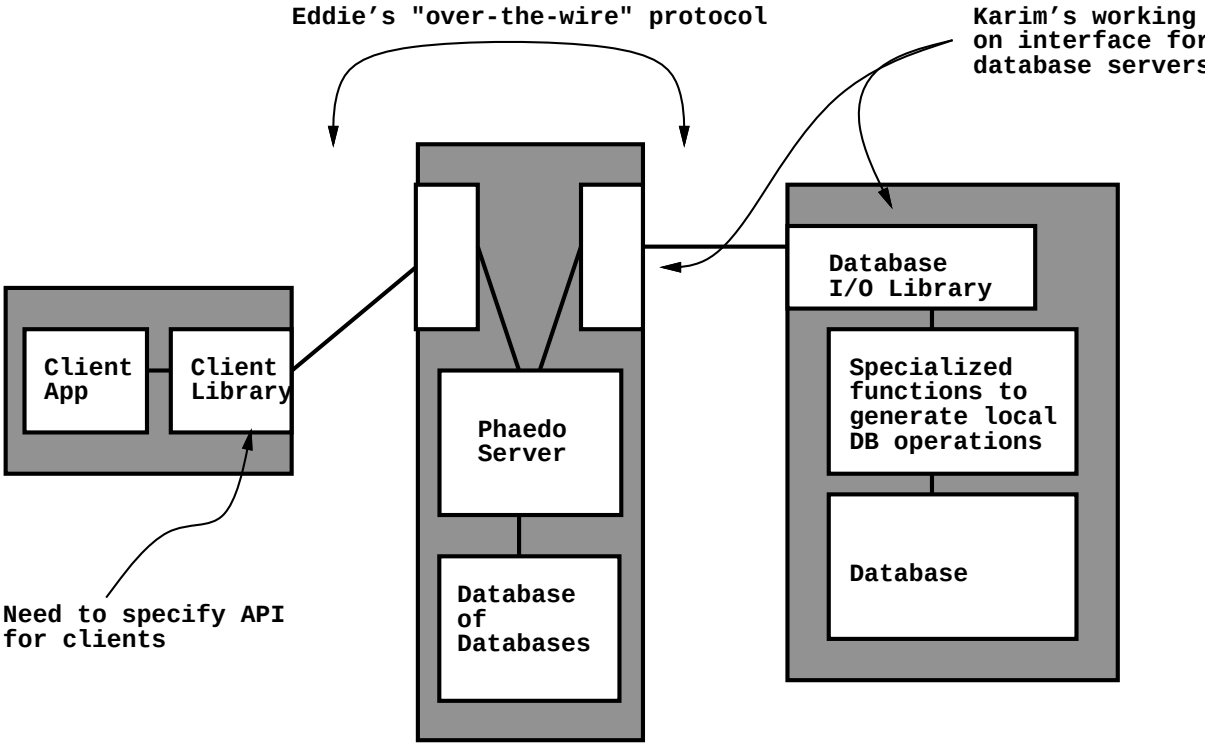Phaedo system architecture, Jan 21 1994