Application-based MFA Integration Pattern

Application

App's login page/ function

MFA technology APIs/integration, may or may not require a second "login page" provided an already determined username depending on technology (e.g. Duo).

LDAP

Maybe

Username/ password (+/or OTP?)

Add (or replace password with) MFA, or second page which presents MFA

MFA authentication (API, IFrame, module)

Alternative strategies

Any access, or Role-based requirement Risk-based requirement

User DB

Browser & "web authentication compatible" mobile apps. Fat client(s)/non-web integration may also be supported, but may limit MFA technology choice.

MFA Management and Verifier System

Cloud-based MFA solution

MFA-specific store of what devices/apps/phone numbers/ etc. are bound to which users, and verification of successful use of factor. Could be cloud-based or local within app/ institution, or perhaps both.