The application has 4 providers and a subscriber for each provider. All 4 service providers are Physics Equations oriented.

Velocity equations

Force equations

* F = ma
* Up thrust = mass of liquid displaced x Acceleration due to gravity
* Up thrust = volume of liquid displaced x density of liquid displaced x Acceleration due to gravity
* Frictional force = coefficient of friction x force

Energy

* Kinetic energy = ½ x m x v2
* Potential energy = m x g x h
* P = F x v
* W = F x d

Electricity

* Power = voltage x current
* Voltage = current x resistance
* Charge = current x time
* Energy = voltage x charge
* Energy = voltage x current x time