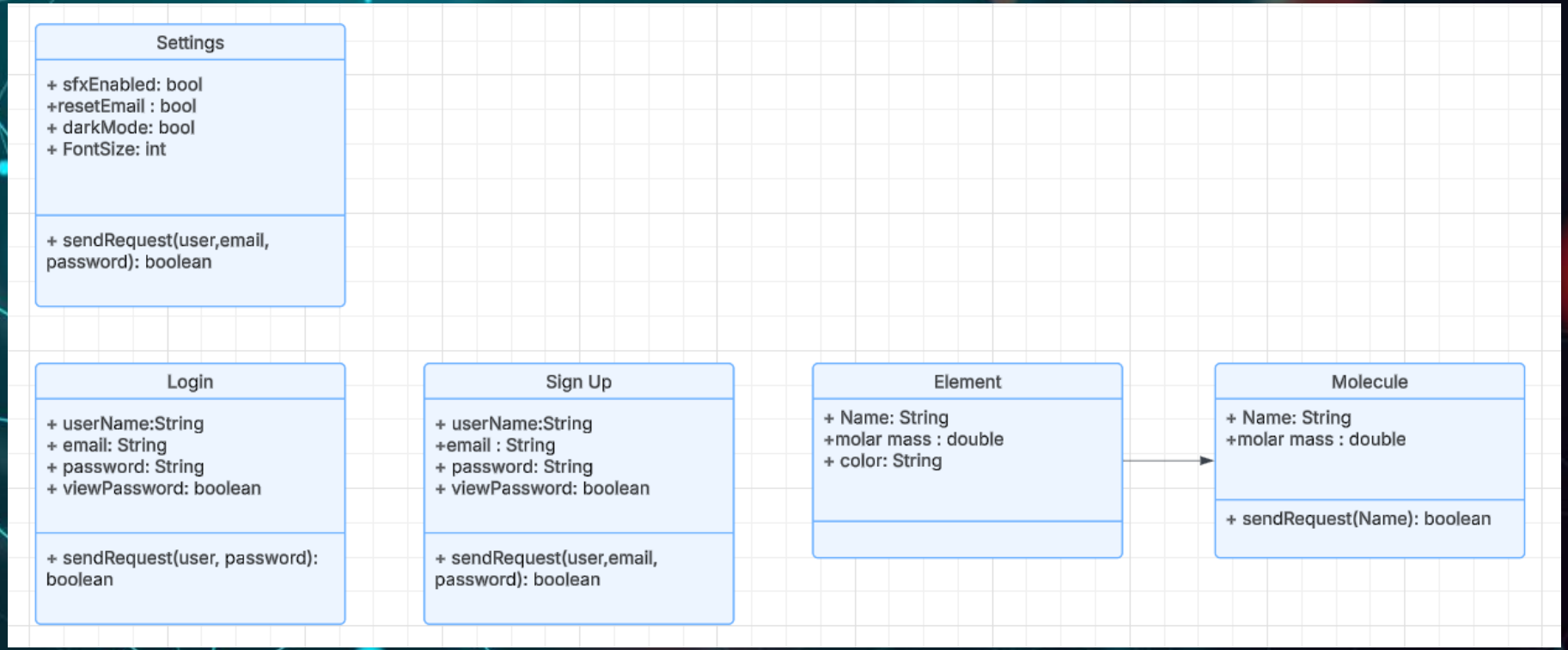
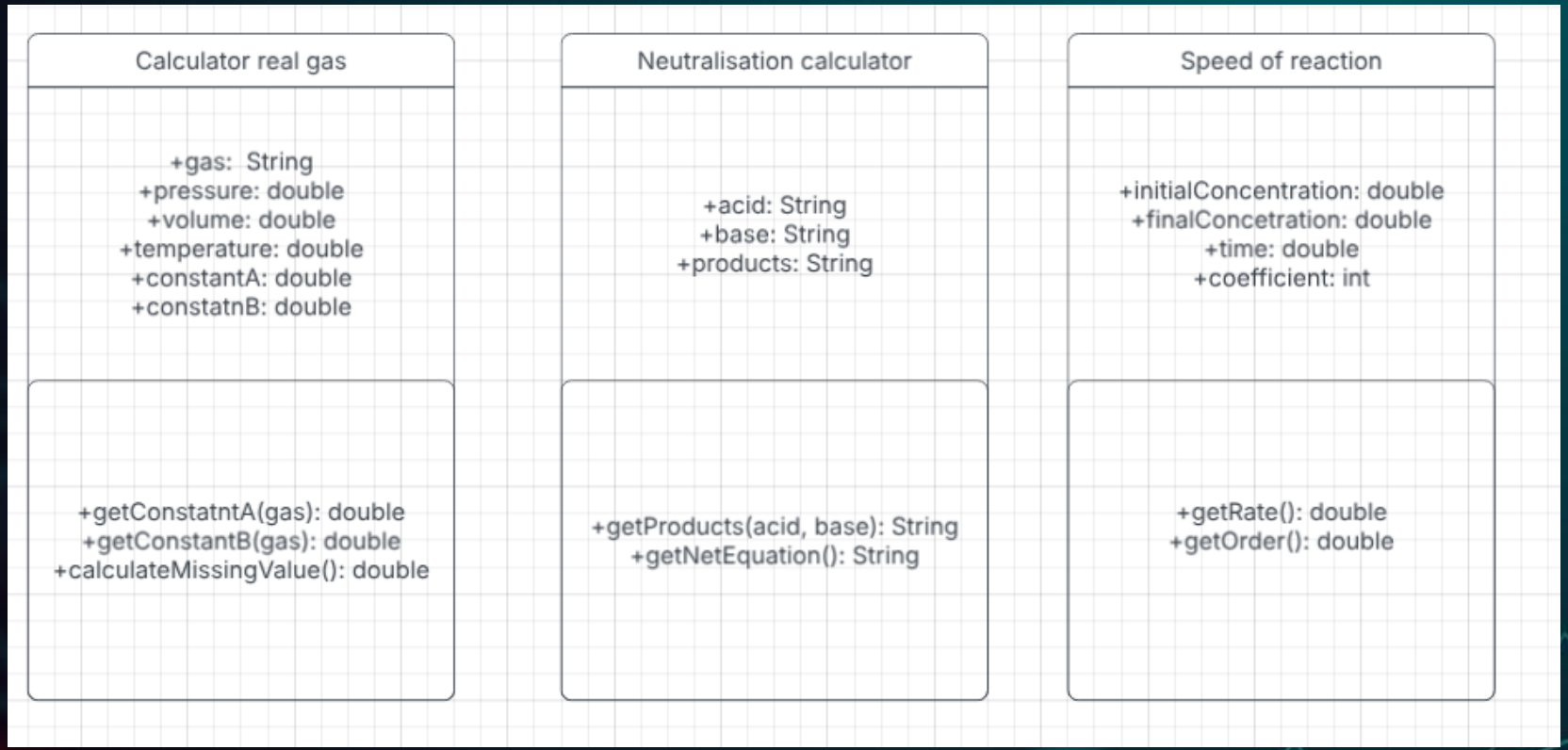
Deliverable 2

Marco Alturk, Amir Zismanov, Daniel Braguta, Sahon Shaha

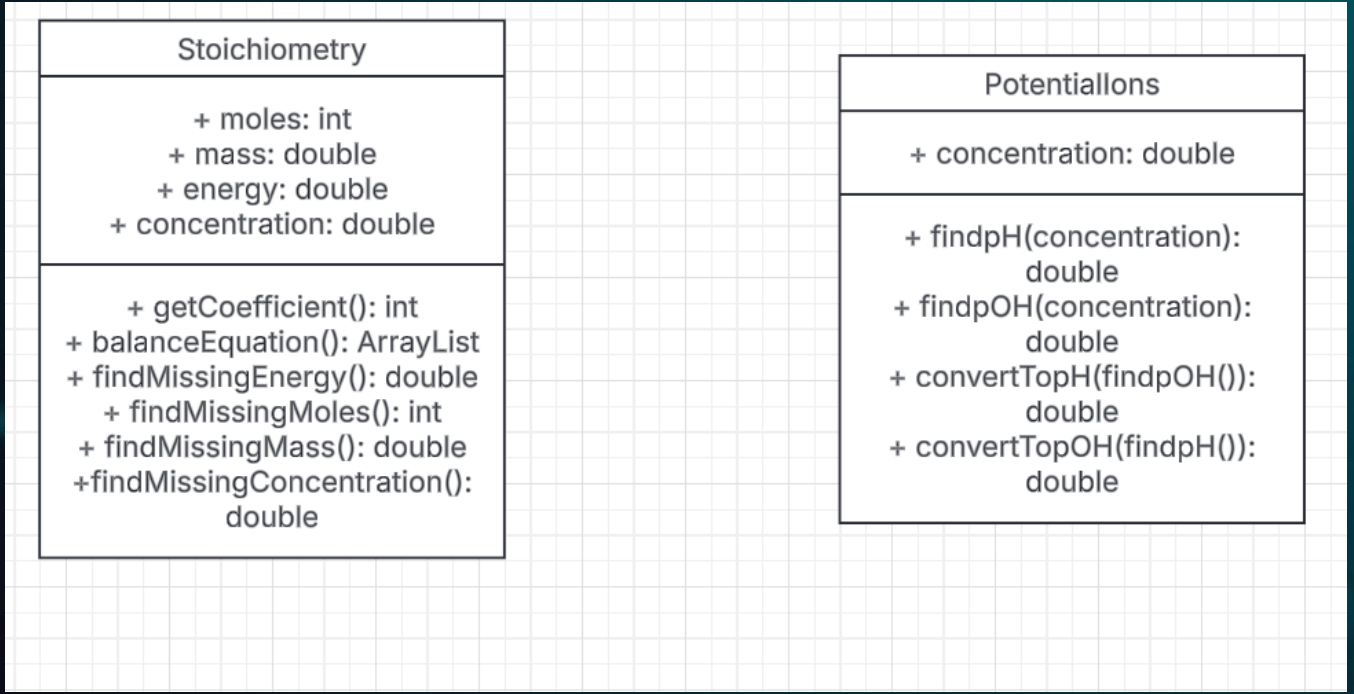
UML Diagram - Marco



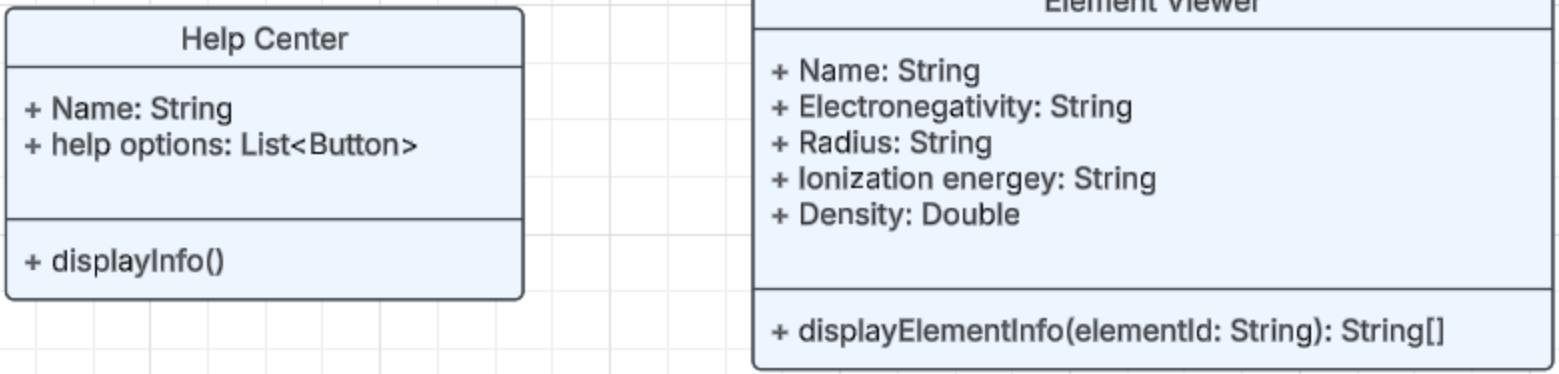
UML Diagram - Daniel



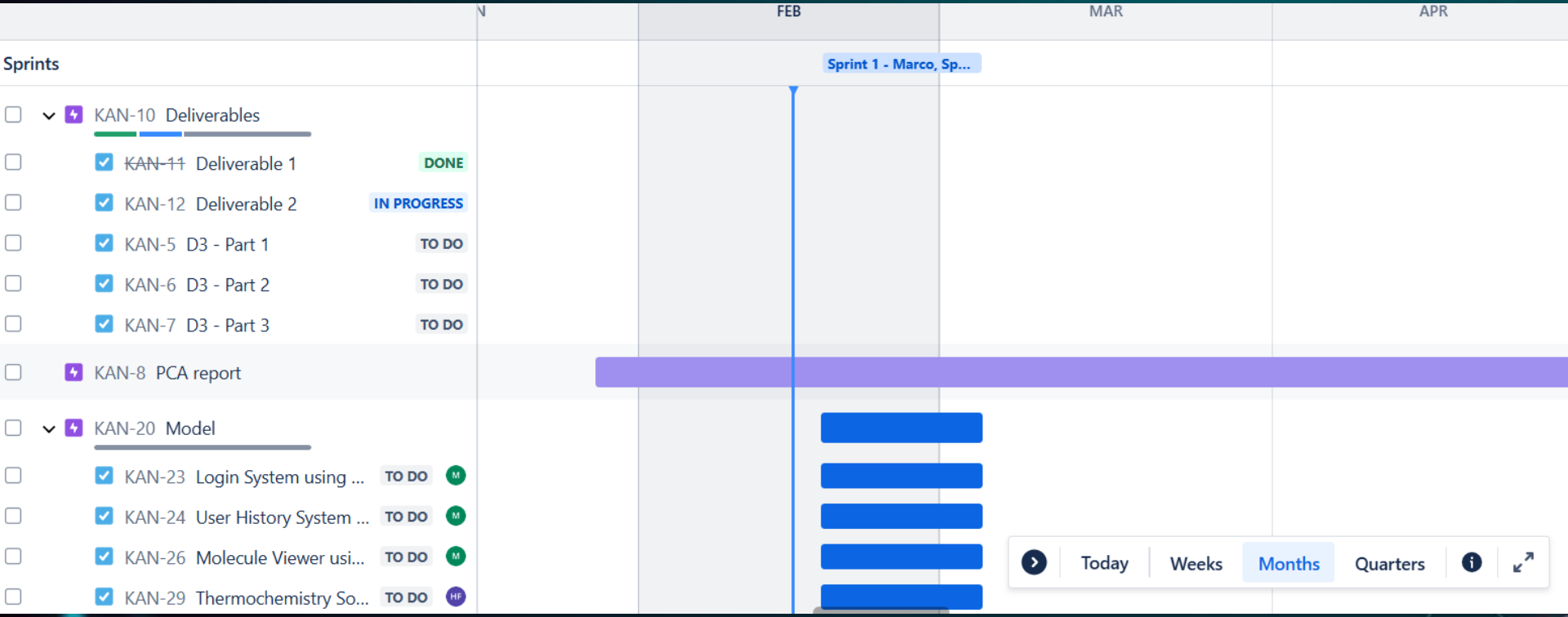
UML Diagram - Sahon

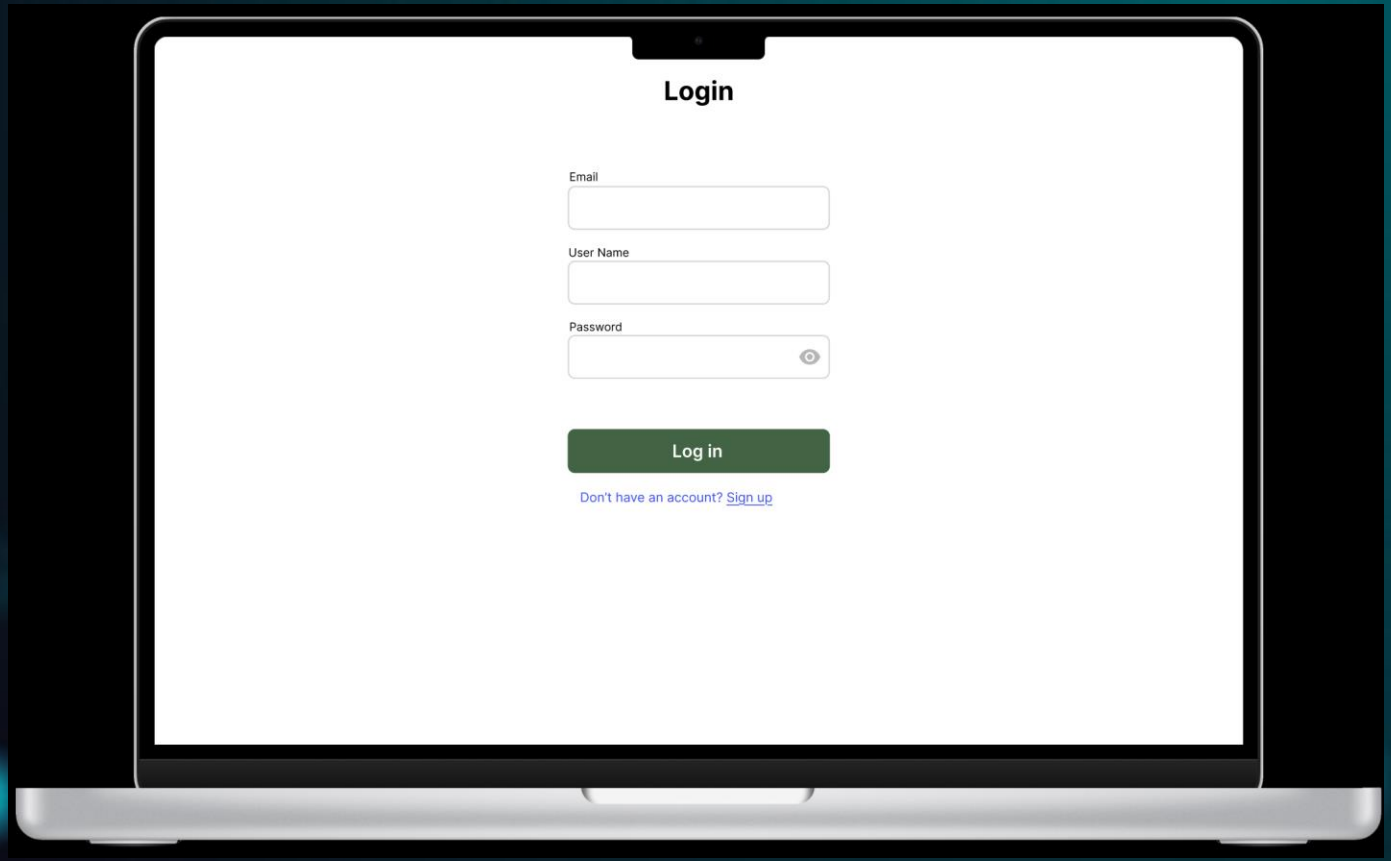


UML Diagram - Amir



Jira Timeline

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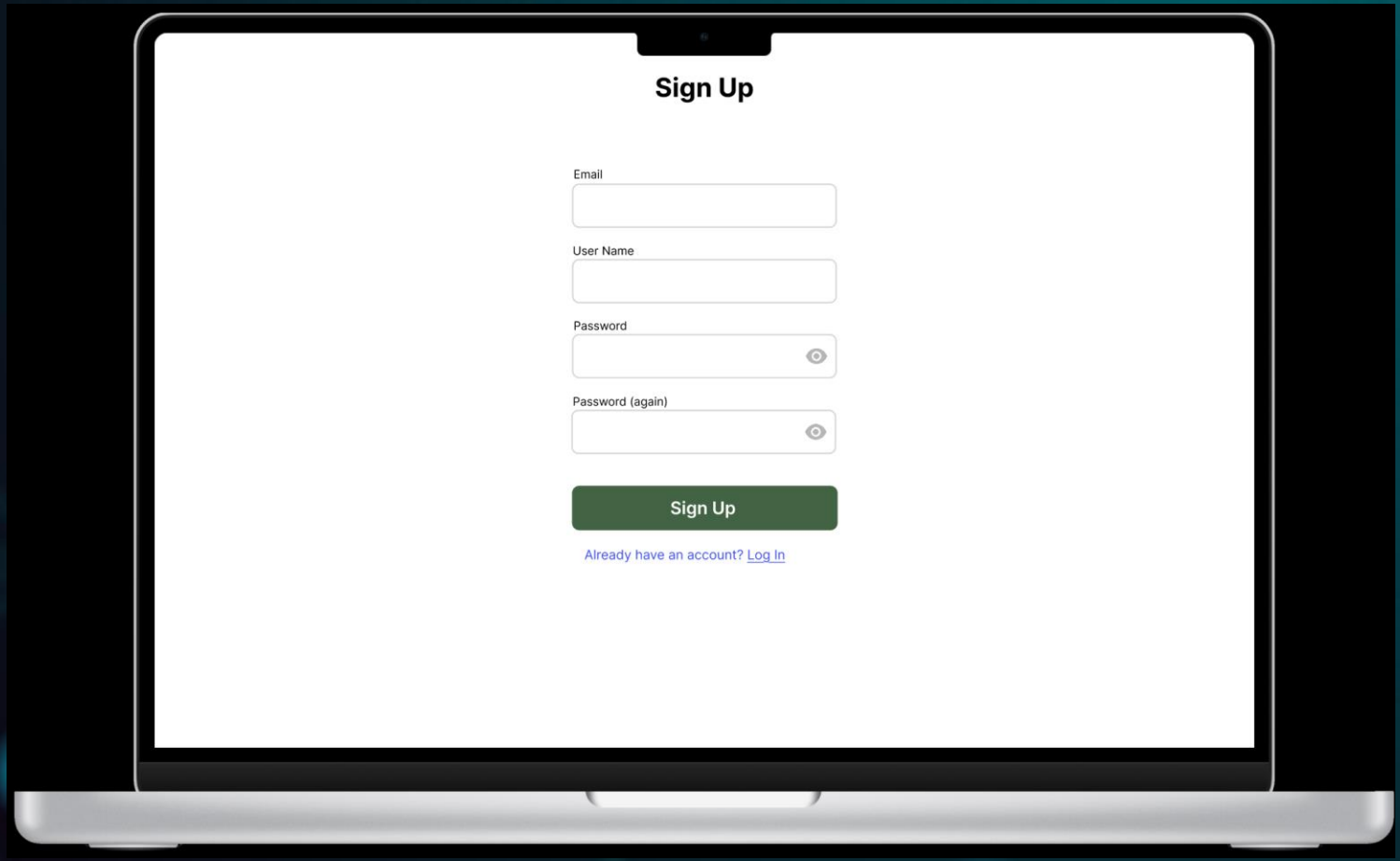
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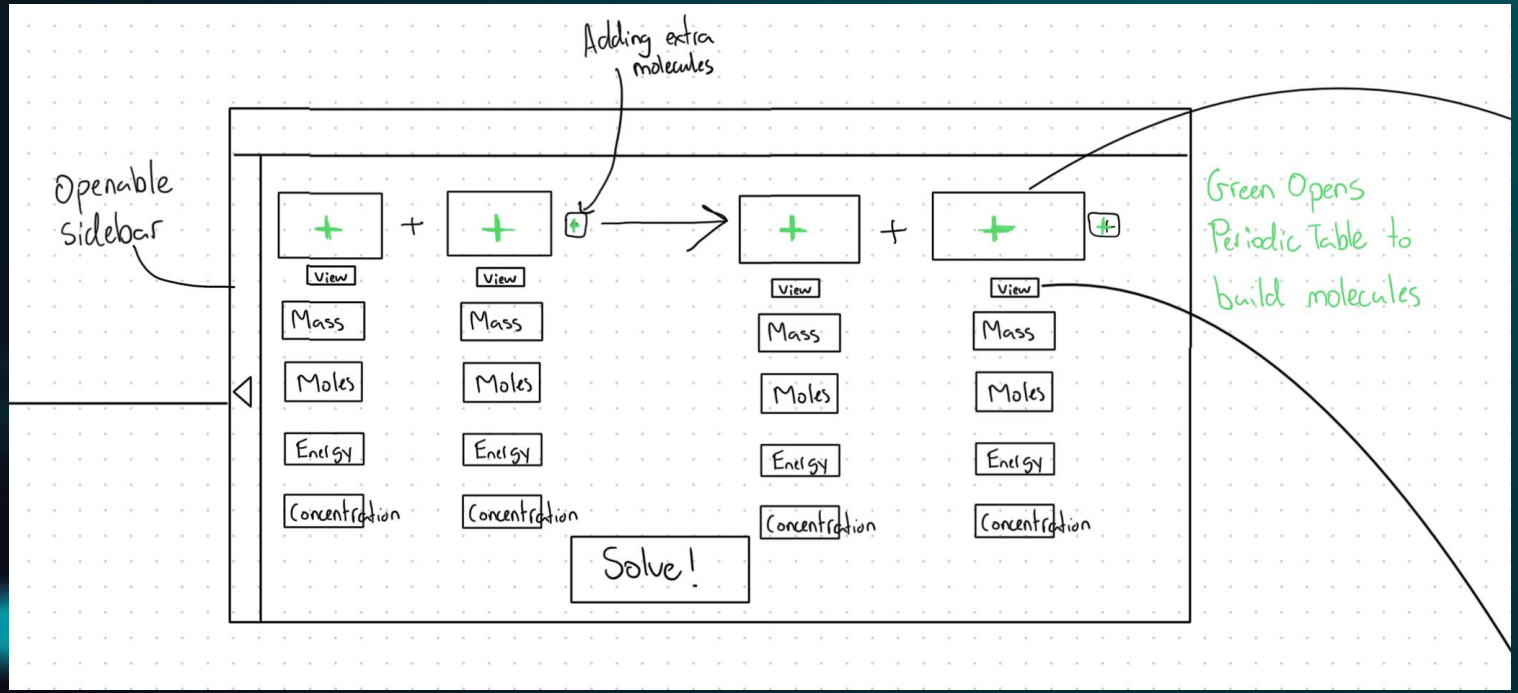
Main Screen

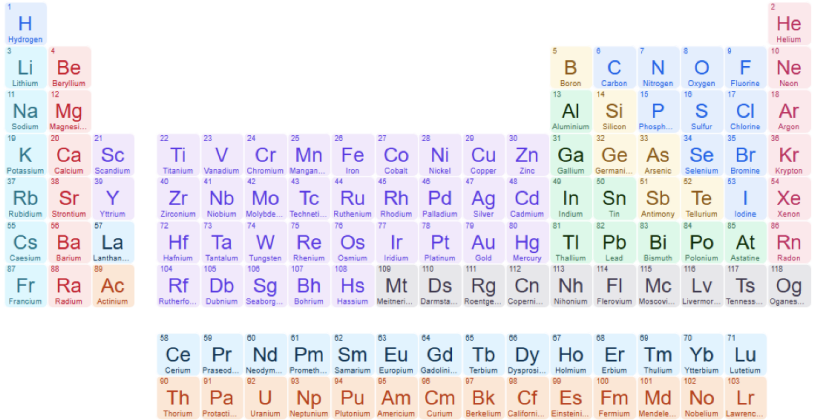

Adding extra molecules
Openable sidebar
View
Mass
Moles
Energy
Concentration
Solve!
Green Opens Periodic Table to build molecules

Build a Molecule

$C_5H_{10}O_2$

Settings

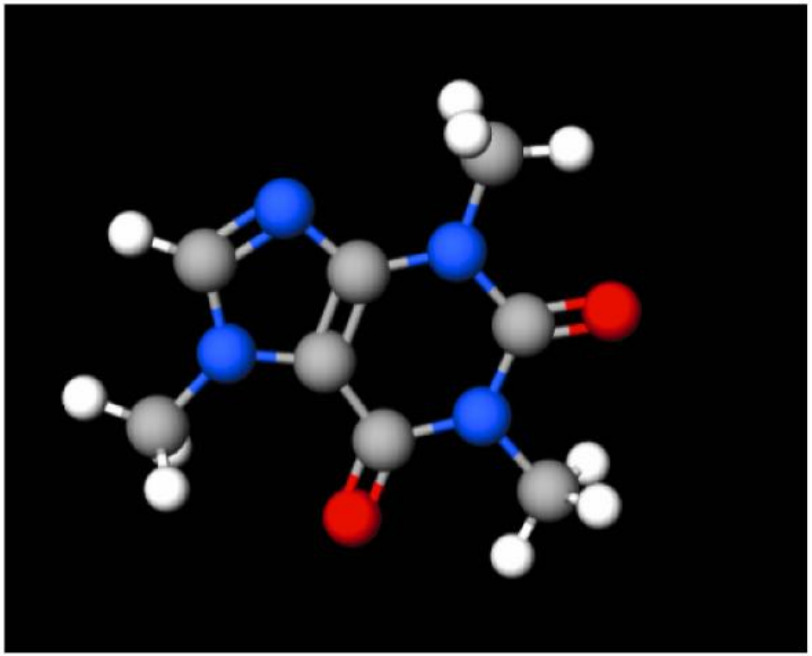
- Visualize Molecule
- Balance Equation
- Neutralize Acids and Bases
- Calculate Heat Transfer
- Calculate pH and poH



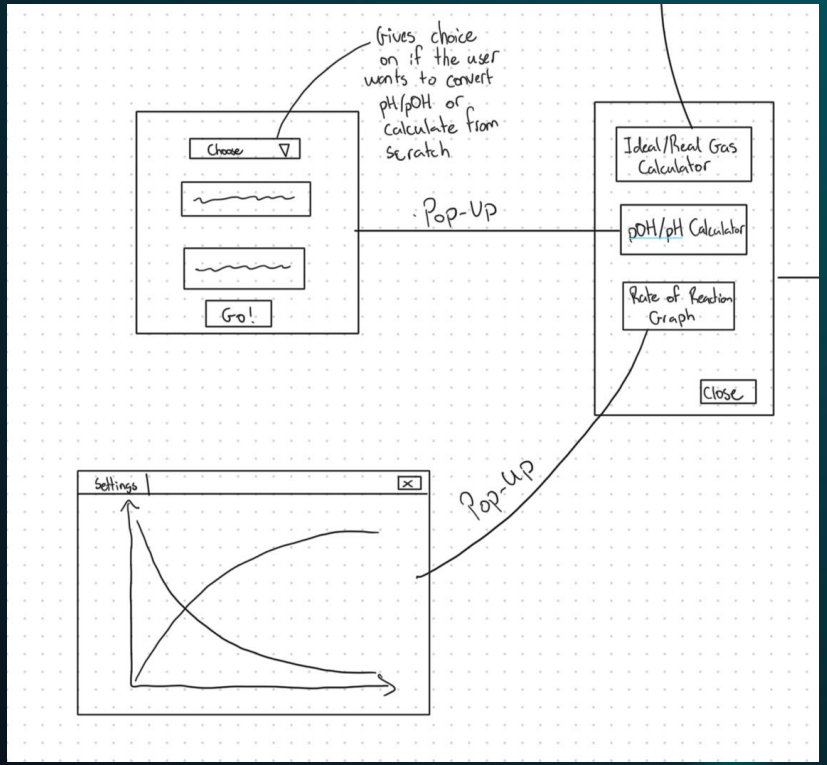
3D molecule Viewer

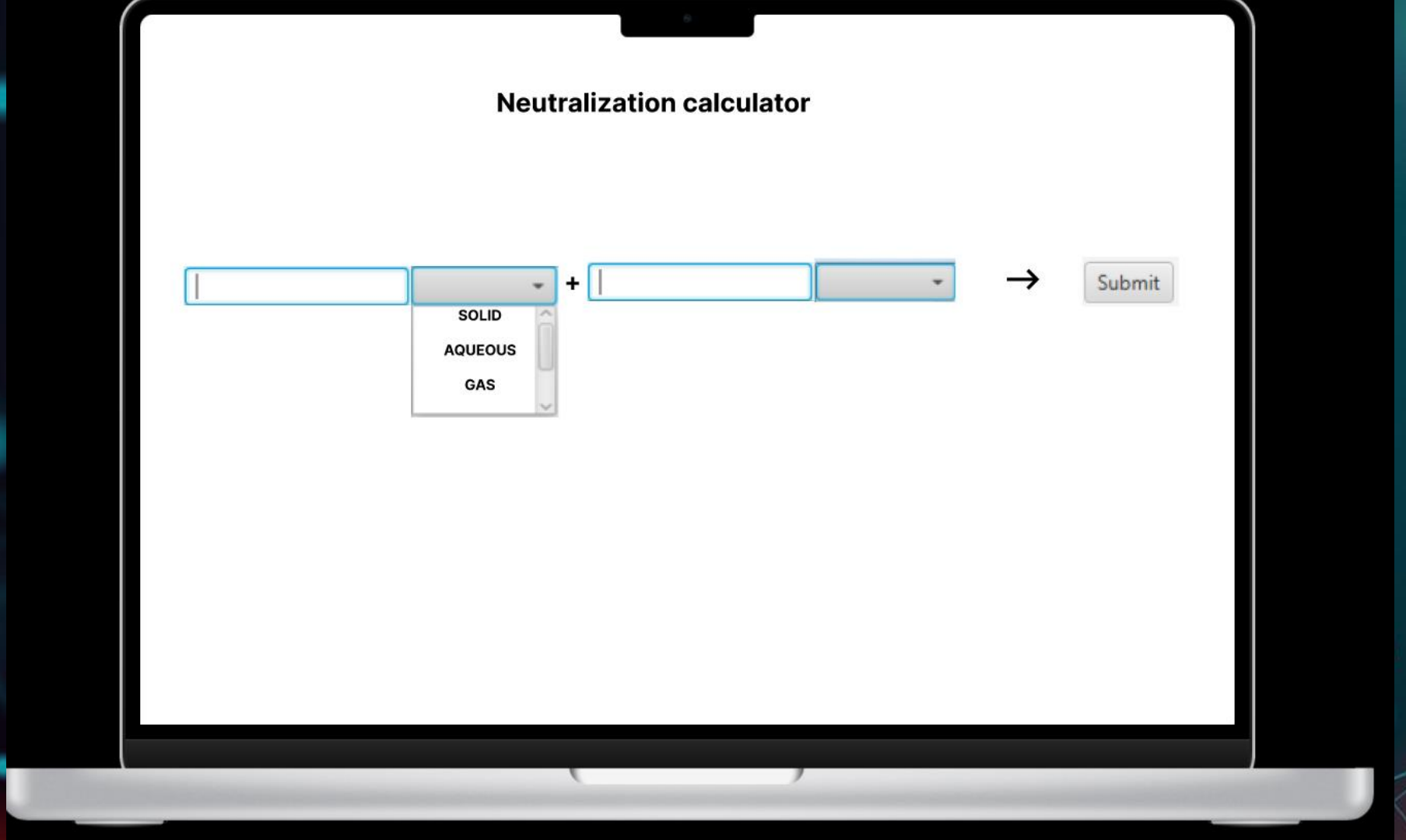
Settings

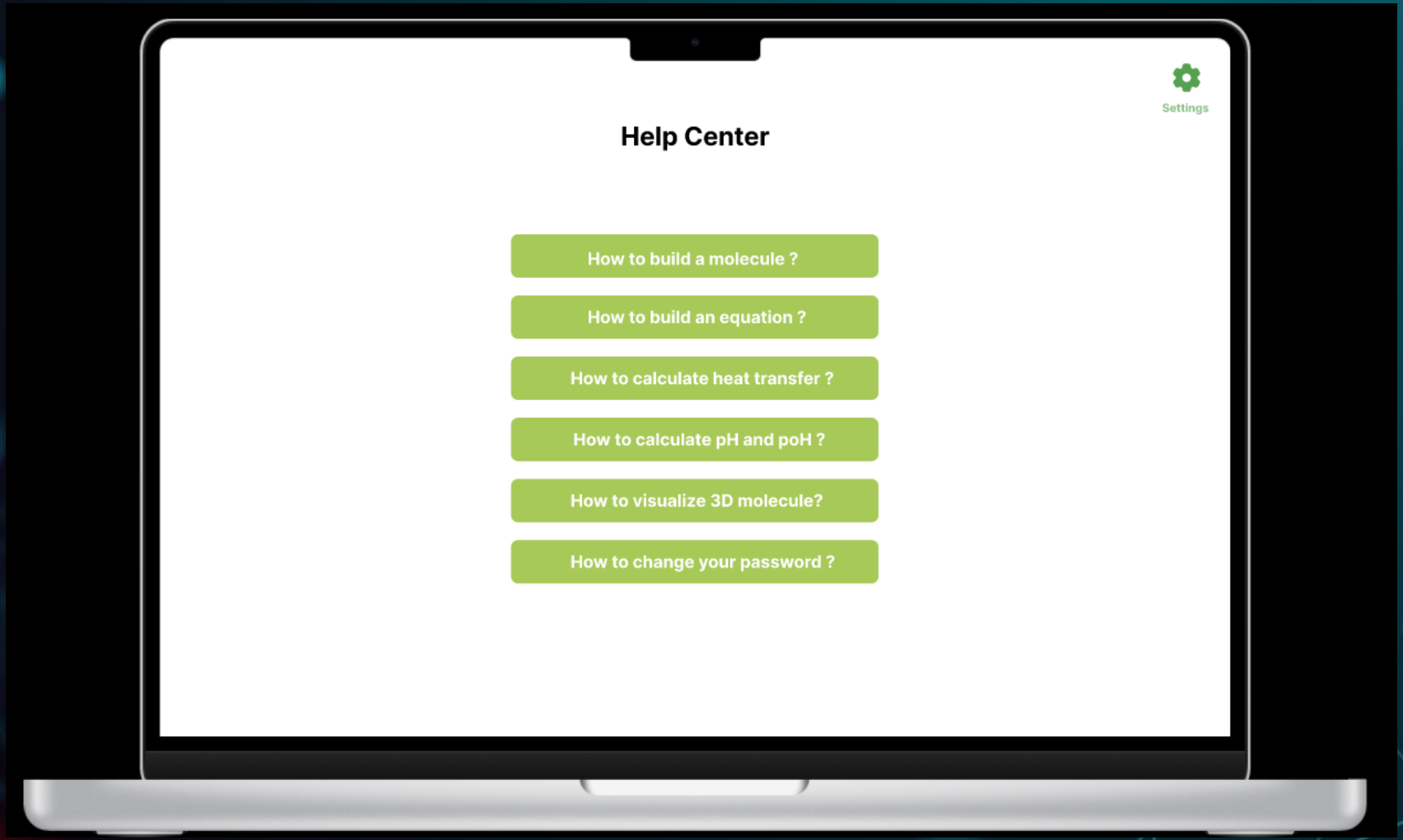
$C_5H_{10}O_2$

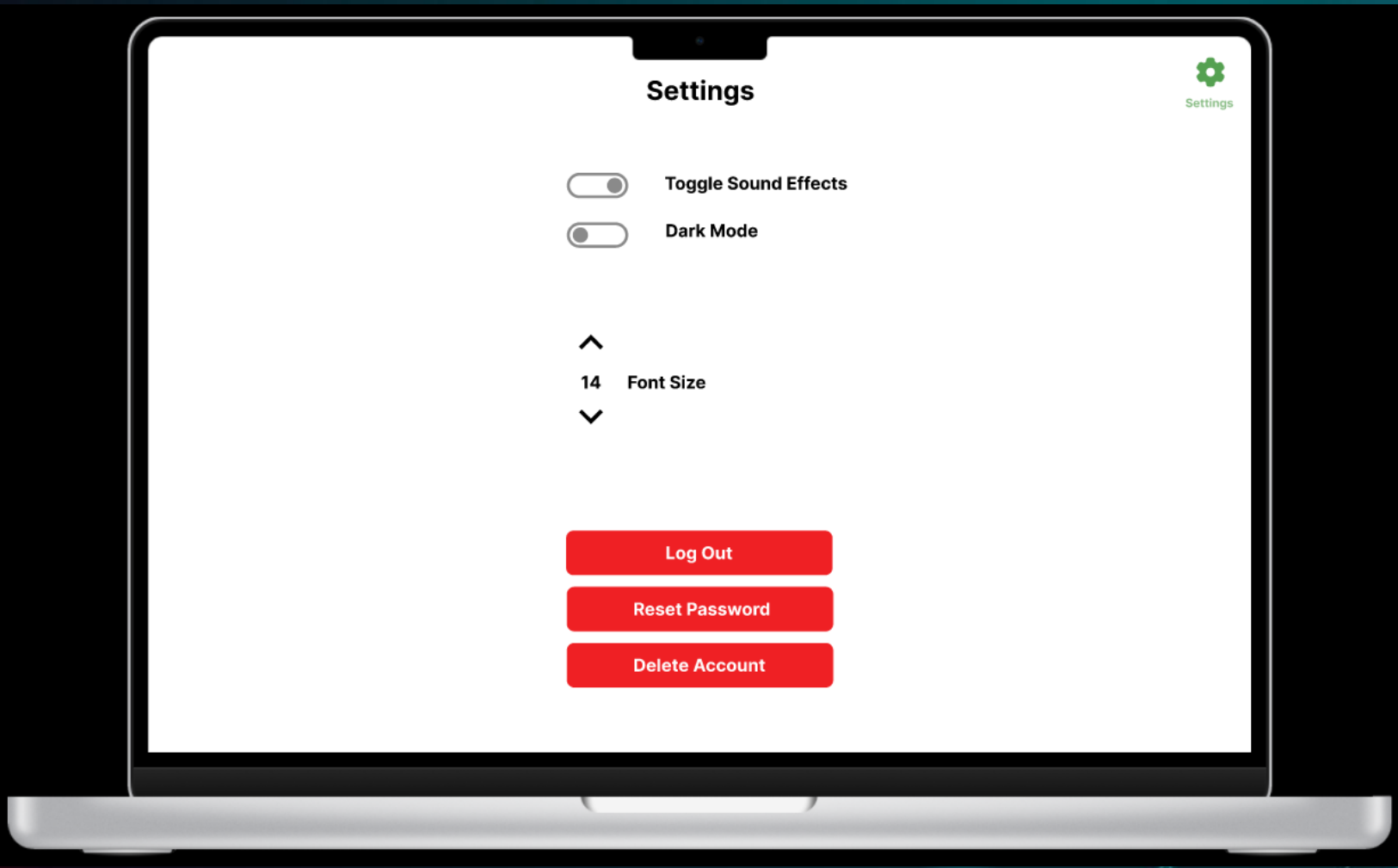


Graph and pH/pOH Calculator




Neutralization calculator
+
SOLID
AQUEOUS
GAS
Submit


Settings
Help Center
How to build a molecule ?
How to build an equation ?
How to calculate heat transfer ?
How to calculate pH and poH ?
How to visualize 3D molecule?
How to change your password ?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Settings
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Input/Output Table

Input	Output
Selected Atoms	Balanced Chemical Equation with Reactants and Products
Mass, Concentration, Moles, Concentration, Energy	Missing Mass, Concentration, Mole and Concentration, Energy
Concentration, pH/pOH	pH or pOH
Van der Waals constants (a & b), Pressure + units, Volume, moles, temperature	One of the missing inputs
Balanced chemical reaction, States of the reactants	Net ionic equation
Concentration and Moles	K Constant with Graph
Selected molecule	3D visualization of the molecule
Clicks on settings page	Help for the user