Fluid Simulator

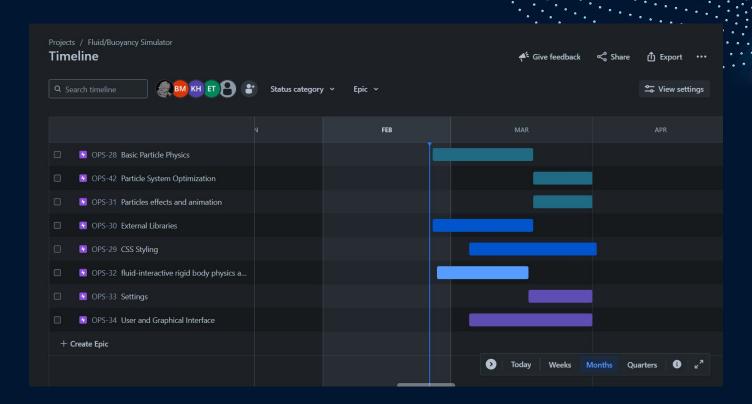
Deliverable 2

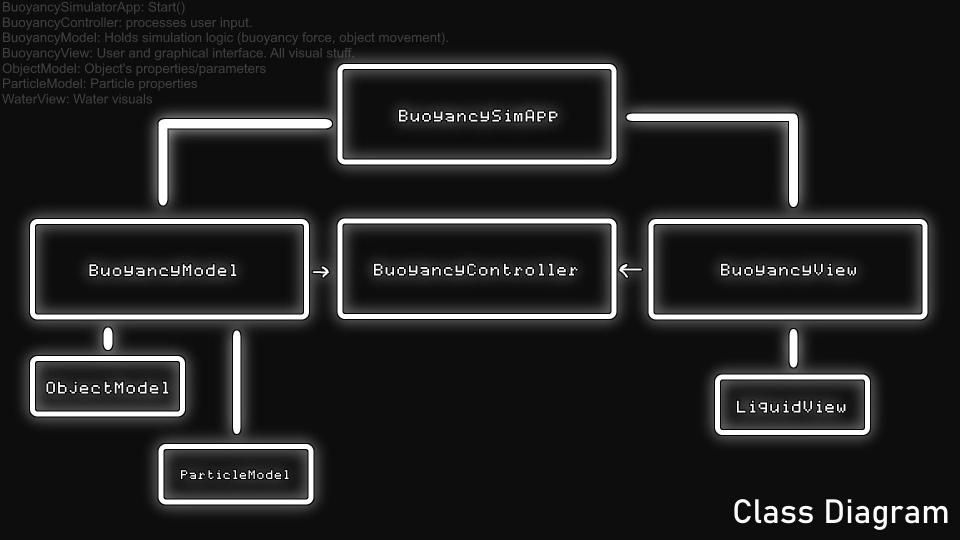
By: Brendon, Eric, Hamza, Kamran

Tasks Breakdown

<u>Brendon</u>	<u>Eric</u>	<u>Kamran</u>	<u>Hamza</u>
 User and Graphical 	• External • Library	Particle Object Interaction	Basic Particle Physics
InterfacesSettings	IntegrationCSSStyling	Buoyancy Implementation	Particle effects & animations
(Language, Light/Dark mode, Font, etc.)	Stylling		Particle System Optimization

Task Timeline





Sample Input Output (Grid) Input

Output

Add object (density < liquid)	Object floats at equilibrium level	
Add object (density > liquid)	Object sinks to bottom	
Change liquid density	Floating objects rise higher or sink, sinking objects may start floating	
Change object density	Object becomes more or less dense, may start floating or sinking	
Move object manually	Object floats or sinks and the fluid responds accordingly	
Remove object	Object disappears from simulation	

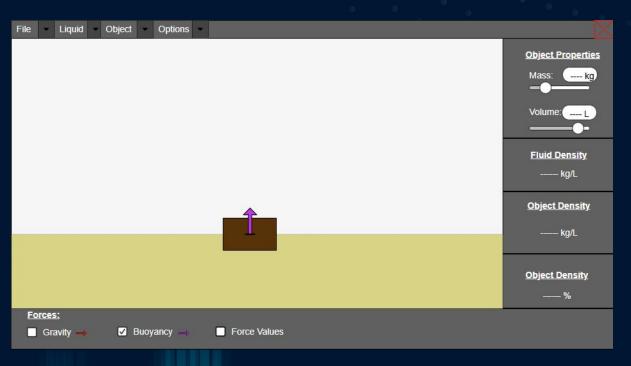
Wireframes and Mockups

<u>Light mode</u>

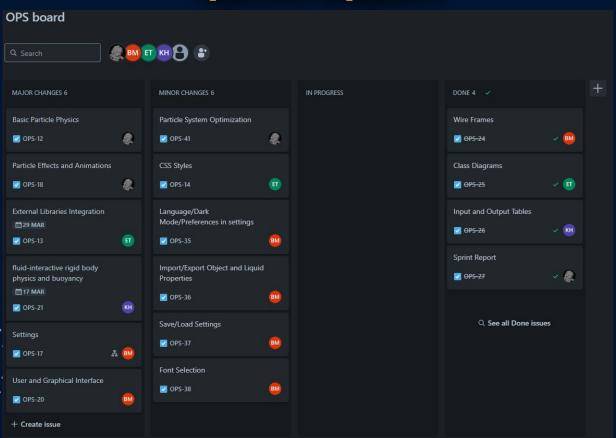


Wireframes and Mockups

Dark mode



Sprint Report



Sprint Report (cont.)

Brendon

Received	Resolved	Carry Over	Blocked
Basic User Interface (3)	Wireframe (1)		
Settings (2)			
Save Load Implementation (2)			
Total Points: 7	Total Points: 1	Total Points:	Total Points:

<u>Eric</u>

	Received	Resolved	Carry Over	Blocked
•	CSS Styling (3)	Class Diagrams (1)		
	External Library Implementation (3)			
	Total Points: 6	Total Points: 1	Total Points:	Total Points:

Sprint Report (cont.)

Hamza

Received	Resolved	Carry Over	Blocked
Basic Particle Physics (3)		Particle System Start (1)	
Particle Effects(2)			
Particle Optimization (1)			
Total Points: 6	Total Points:	Total Points: 1	Total Points:

<u>Kamrar</u>

Received	Resolved	Carry Over	Blocked
Rigid Body Implementation (3)	Sample I/O Grid (1)		
Buoyancy Implementation (3)			
Total Points: 6	Total Points: 1	Total Points:	Total Points:

Thank You