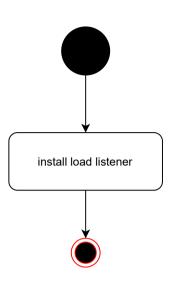
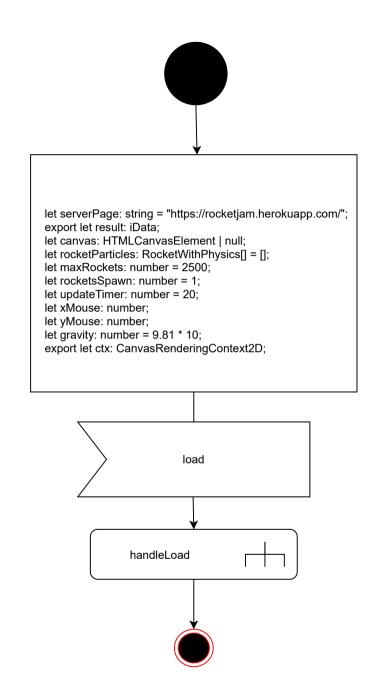
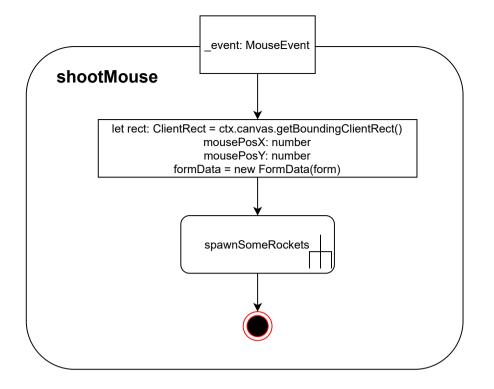
## **Main Activity Diagram**

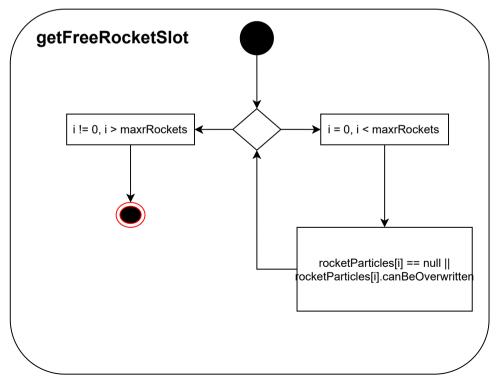


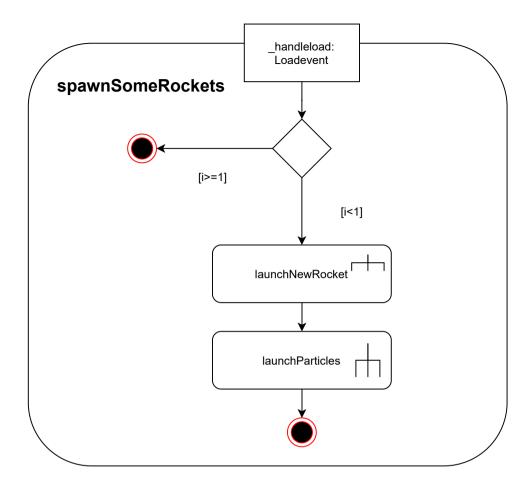


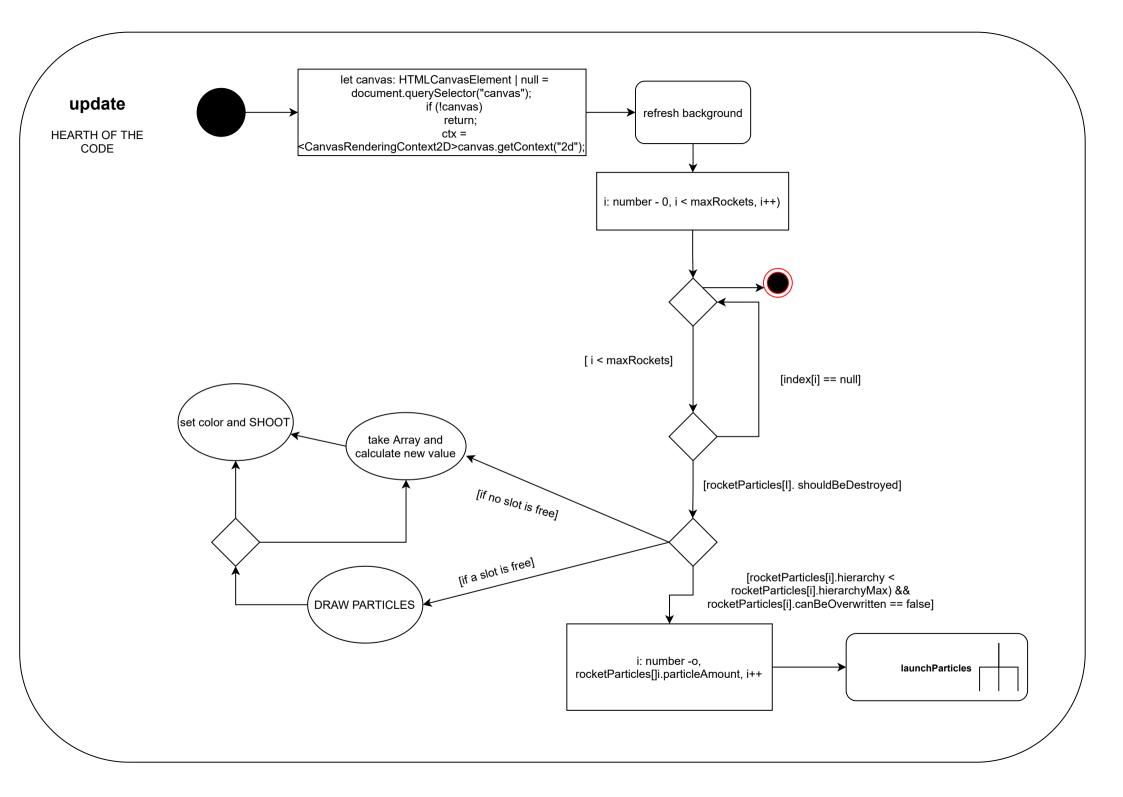
## **Main Activity Diagram**

## handleLoad click button with click button with Click on canvas id="loadBtn" id="saveBtn" canvas = document.querySelector("canvas"); if (!canvas) return; canvas.width = screen.width; canvas.height = screen.height; console.log(maxRockets); rocketParticles.length = maxRockets; ctx = canvas.getContext("2d"); shootMouse IoadCurrentSelectedPreset saveCurrentSelectedPreset ctx.beginPath(); ctx.fillStyle = "#000000"; ctx.fillRect(0, 0, ctx.canvas.width, ctx.canvas.height); ctx.stroke(); spawnSomeRockets updateFunction launchNewRocket getDataFromServer\_ launchParticles











ctx = <CanvasRenderingContext2D>canvas.getContext("2d");

let colorStart: string = String(new FormData(document.forms[1]).get("startColor")); let colorEnd: string = String(new FormData(document.forms[1]).get("endColor")); let lifetime: number = Number(new FormData(document.forms[1]).get("lifetime")); // stanadard 0.05 + 0.025

console.log(new FormData(document.forms[1]).get("lifetime")); console.log(lifetime):

let radius: number = Number(new FormData(document.forms[1]).get("particleRadius")); console.log(radius);

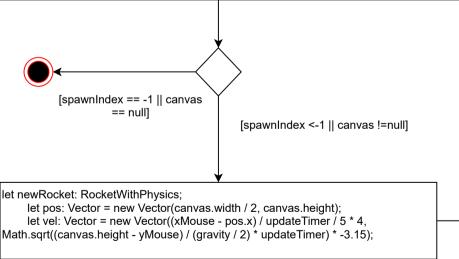
let size: number = Number(new FormData(document.forms[1]).get("particleSize")); let particleAmount: number = Number(new FormData(document.forms[1]).get("spawnAmount")); console.log(size);

let hierarchyMax: number = Number(new FormData(document.forms[1]).get("explosionTimes")); console.log(hierarchyMax);

let spawnIndex: number = getFreeRocketSlot();

## Rocket

- + position: Vector;
- + velocity: Vector;
- + rotationValue: number;
- + yGravity: number;
- + lifetime: number;
- + lifetimeMax: number;
- + size: number;
- + colorStart: string;
- + colorEnd: string;
- + particleAmount: number;
- + colorCurrent: string;
- + hierarchy: number;
- + hierarchyMax: number;
- + radius: number:
- + constructor()
- + copyPosition(): void
- + calculateNewValue(): void



newRocket = new RocketWithPhysics(pos, vel, gravity, lifetime, size, colorStart, colorEnd, particleAmount, 0, hierarchyMax, radius); rocketParticles[spawnIndex] = newRocket;

