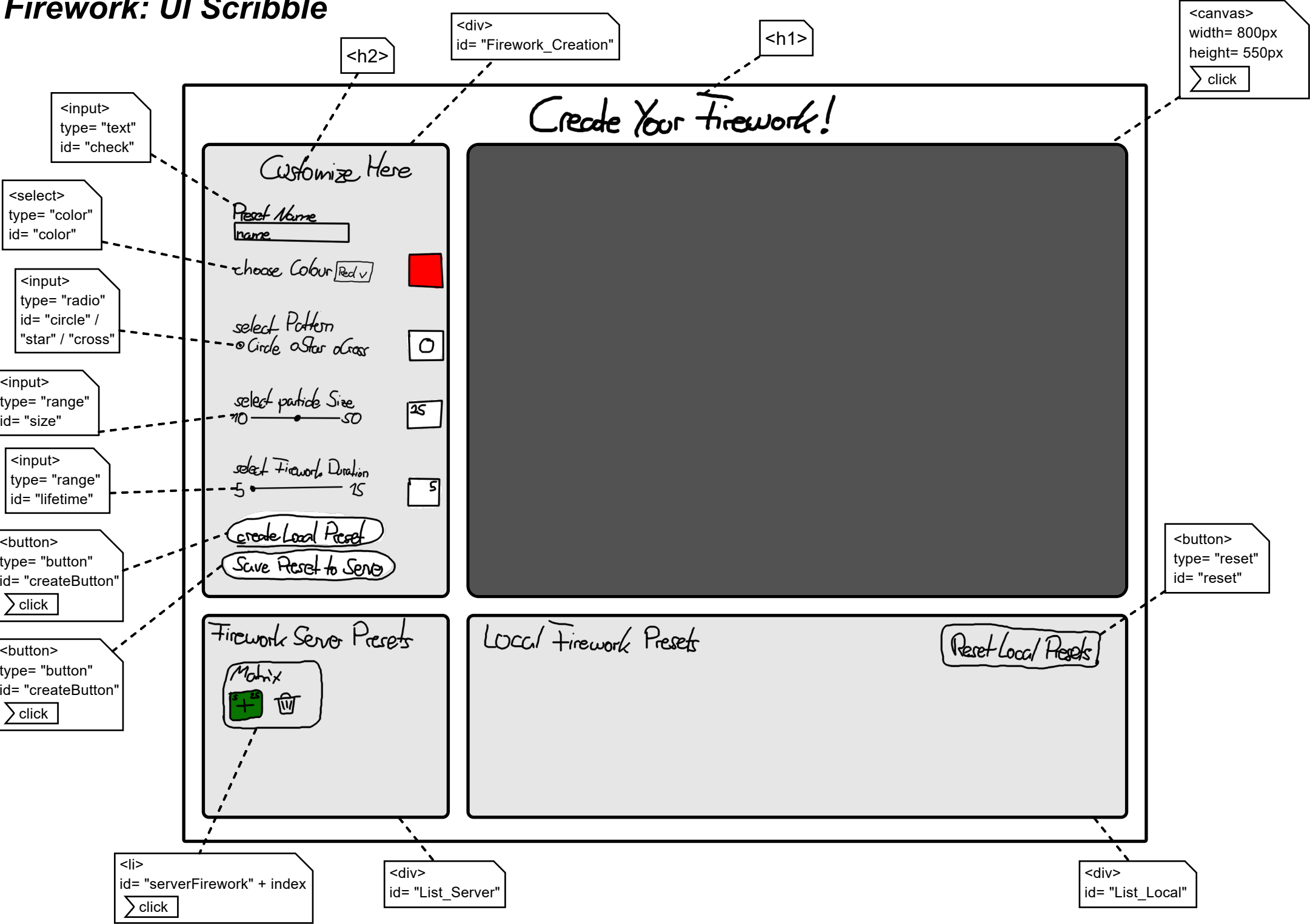
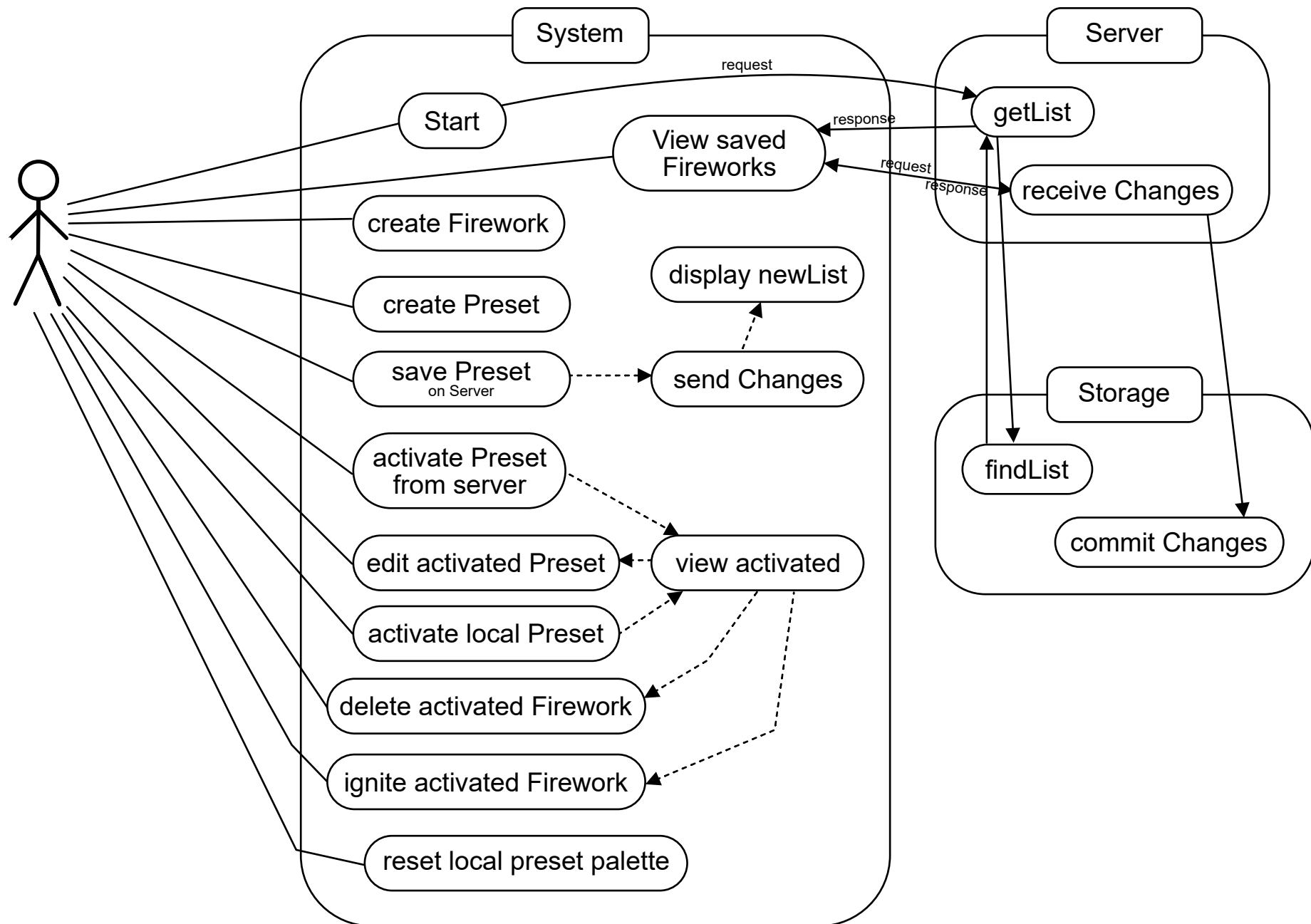


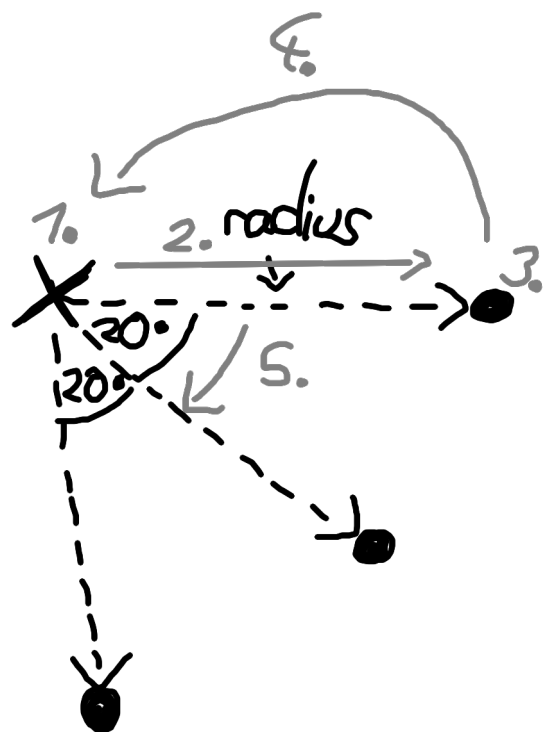
Firework: UI Scribble



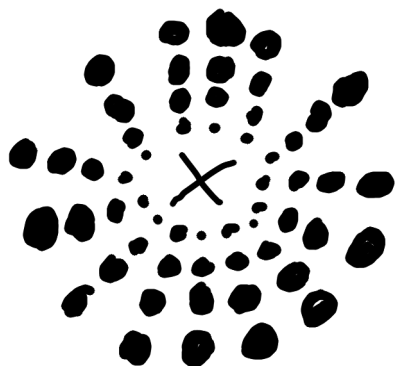
Firework: Use-Case-Diagram



Firework: Canvas-Scribble: Circle



- 1. Translate Coordinates to clicked x and y on canvas
- 2. Translate along x-axis for radius
- 3. Draw Particle
- 4. Translate back to coordinates from step 1
- 5. Rotate coordinates by 20°
- 6. Repeat Steps 2 to 5 18-times to get a full circle

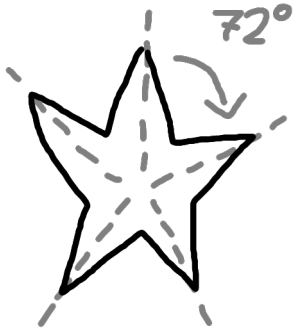


Repeat above process 4 times

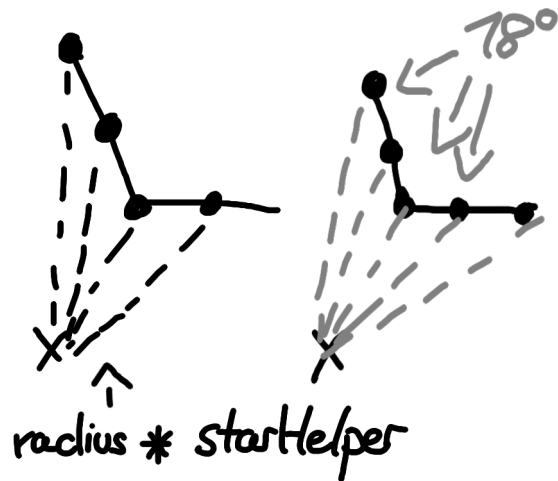
Start with inner circle

scale up coordinates between each circle

Firework: Canvas-Scribble: Star

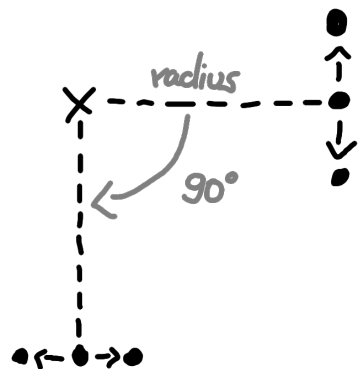


- Similar to the Circle
- Draw 4 Particles with radius * starHelper and 18° between them
- Rotate Coordinates by 72° and repeat
- Repeat whole star 4 times while scaling up the coordinates

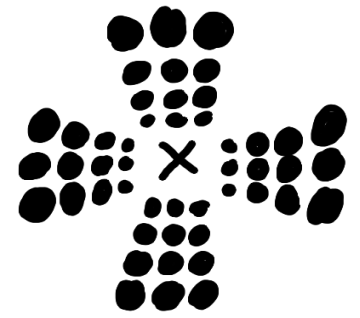


starHelper variable to modify
radius to get the star shape

Firework: Canvas-Scribble: Cross

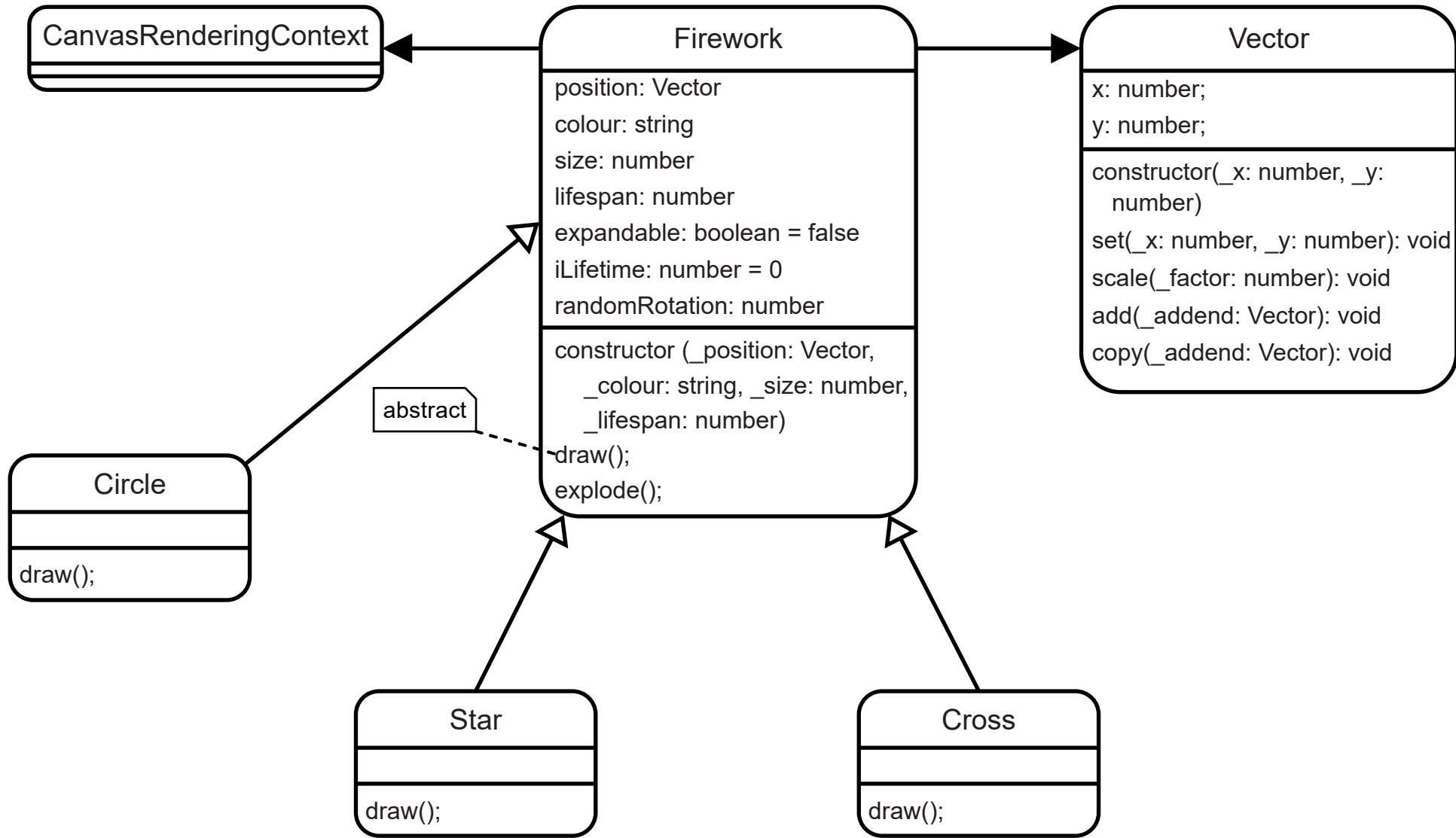


- Similar to the Circle
- Translate to clicked x,y on canvas
- Translate along x for radius
- drawParticle
- Translate smaller amount up and down along y and drawParticle
- Translate back to clicked x,y on canvas
- Rotate coordinates by 90°
- Repeat above 3 times

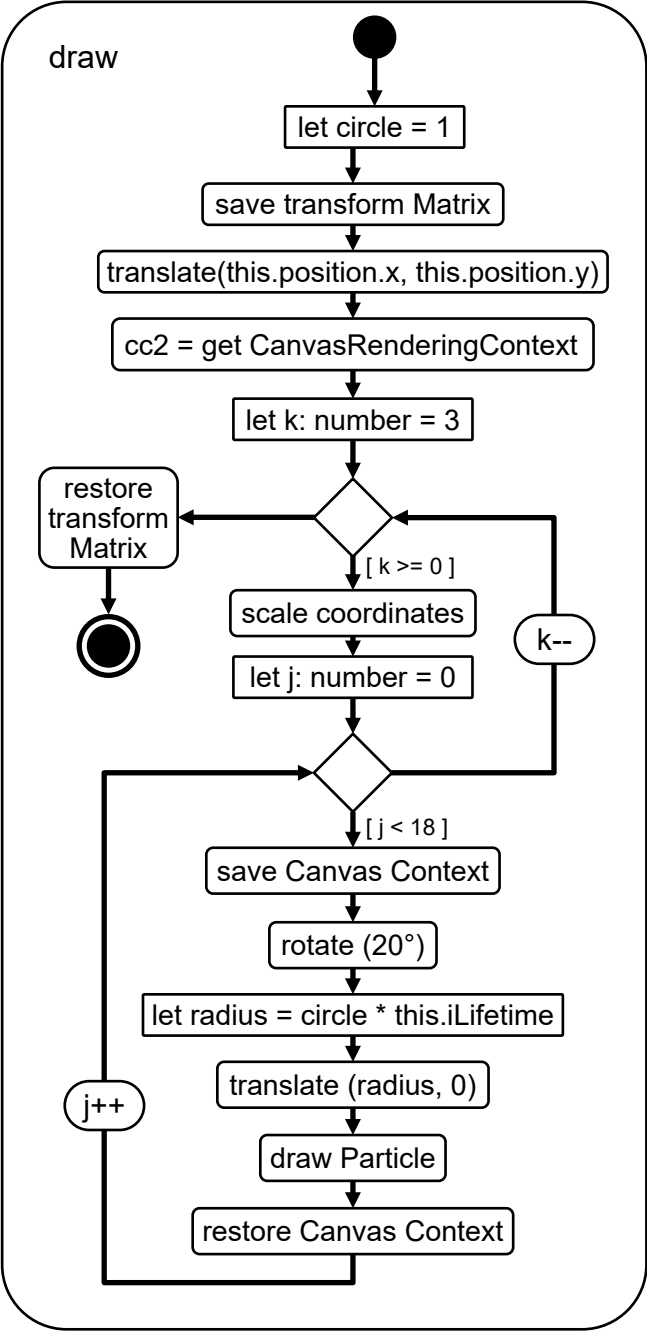


- Draw 4 Crosses and scale up each new cross slightly

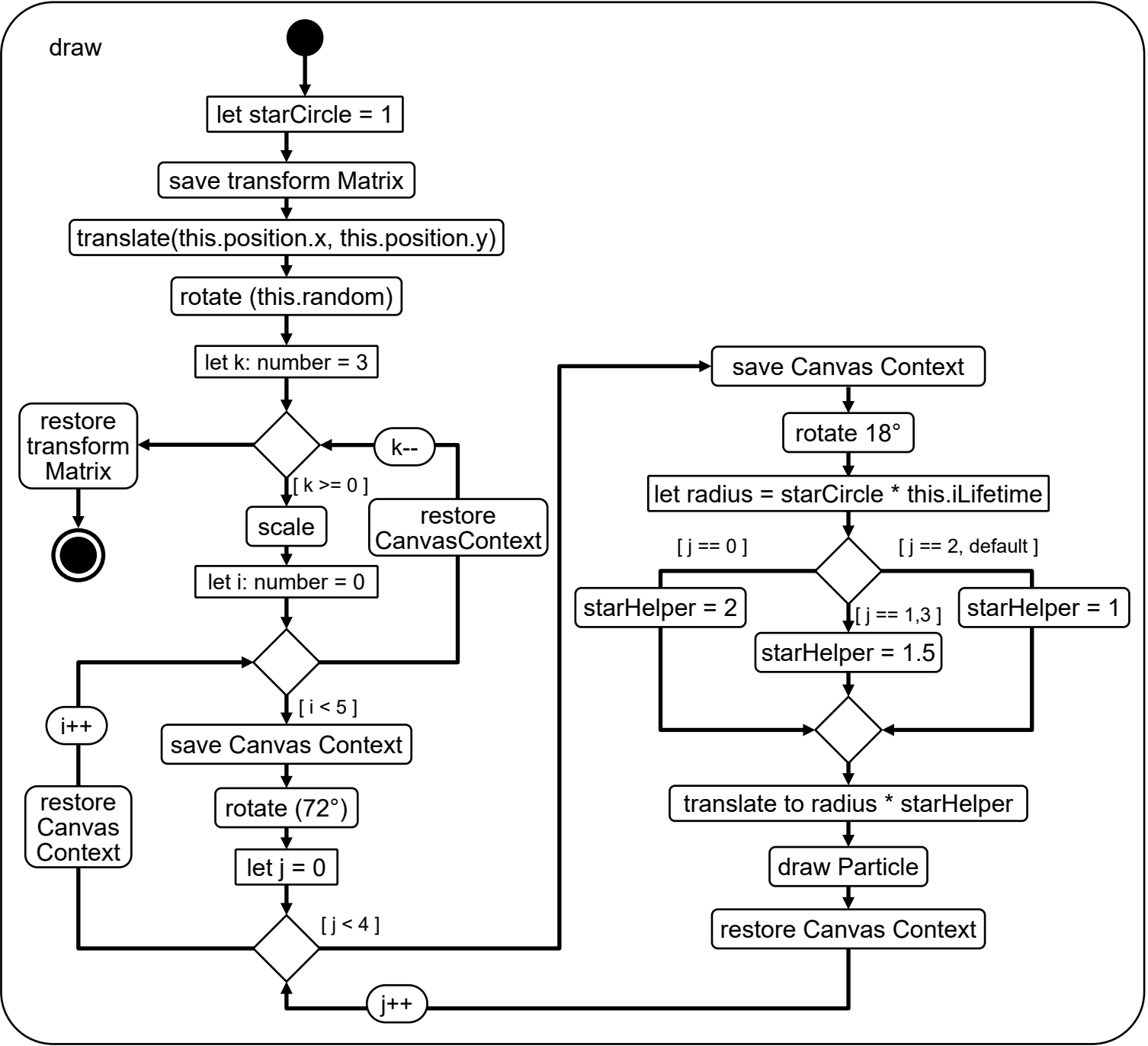
Firework: Class Diagram



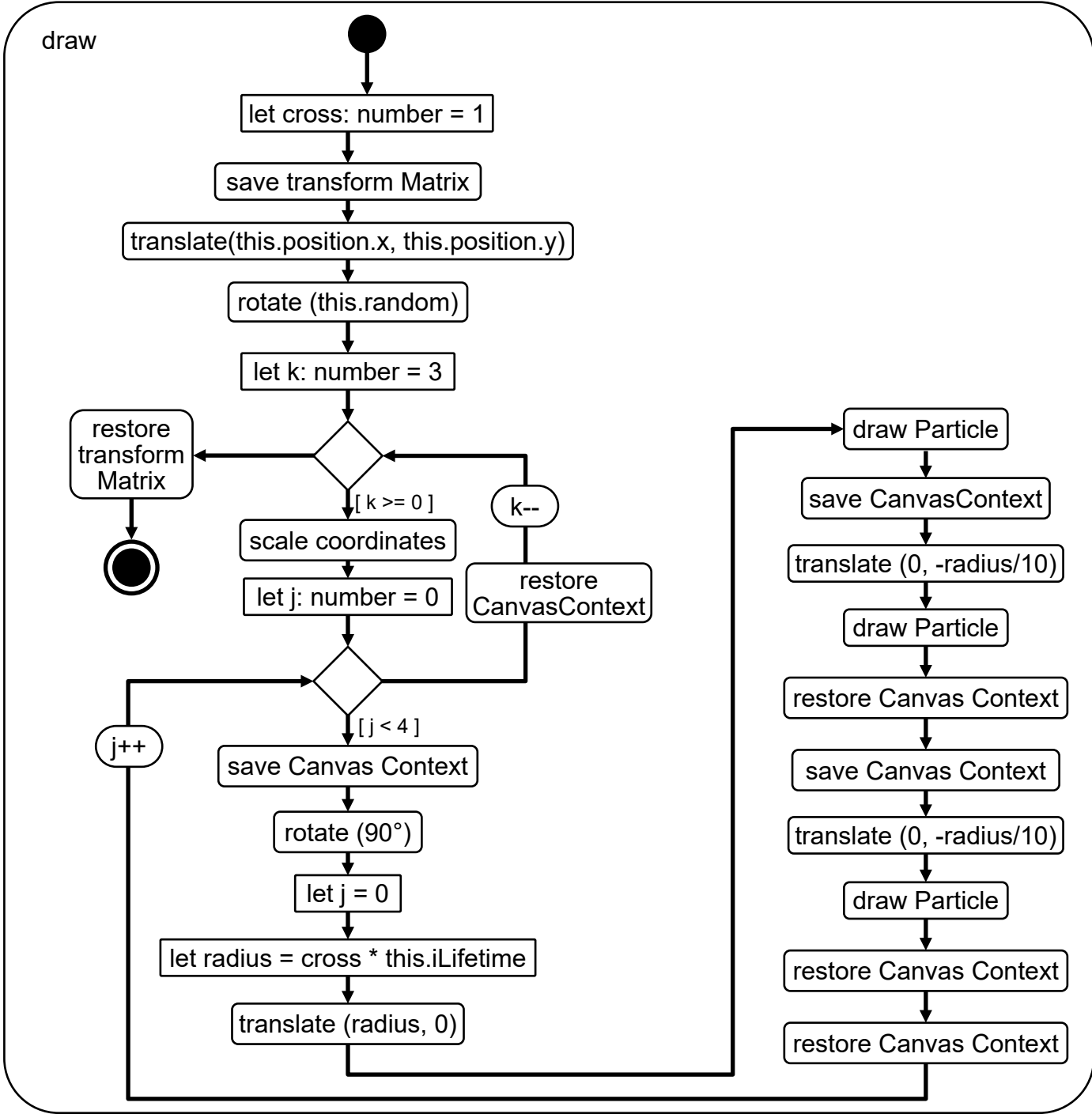
Firework: Activity Diagram: Circle



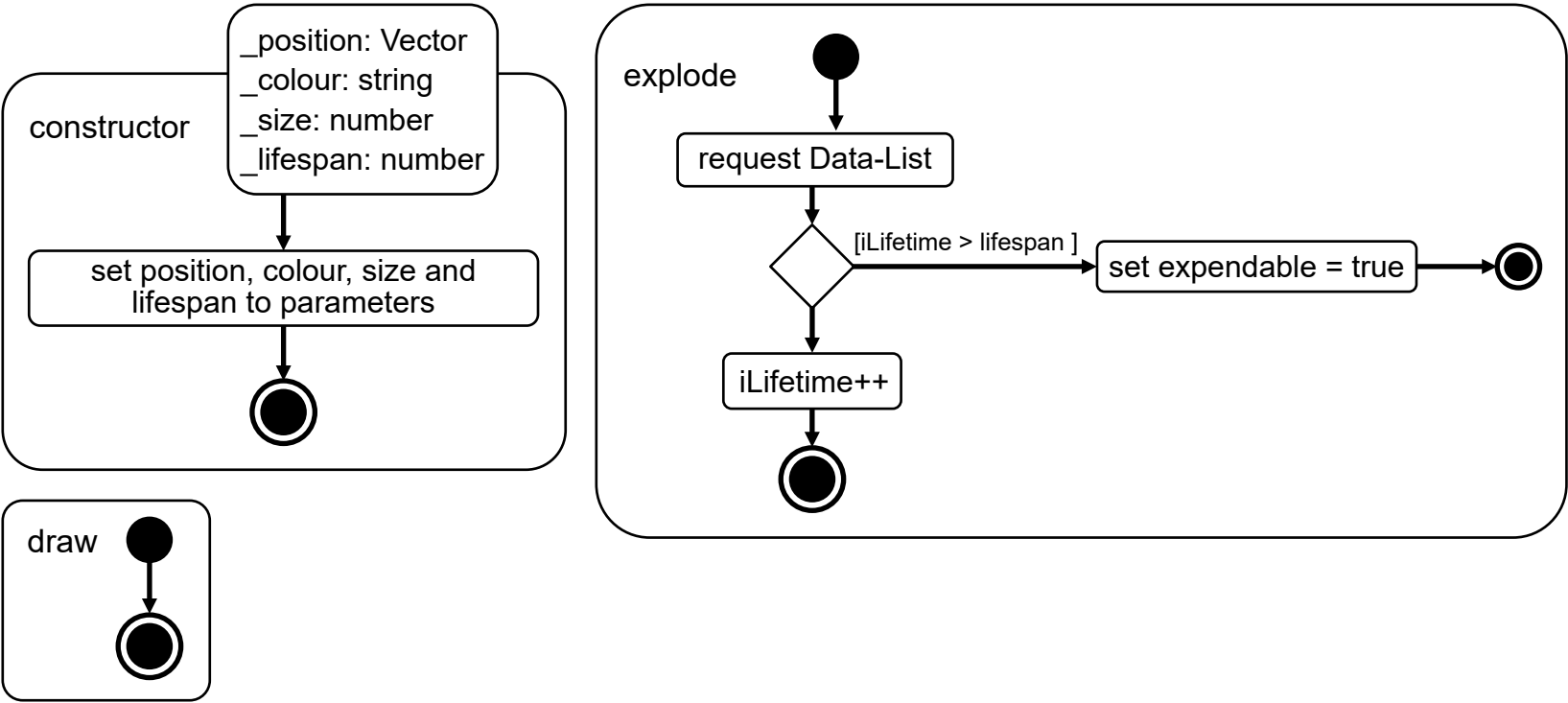
Firework: Activity Diagram: Star



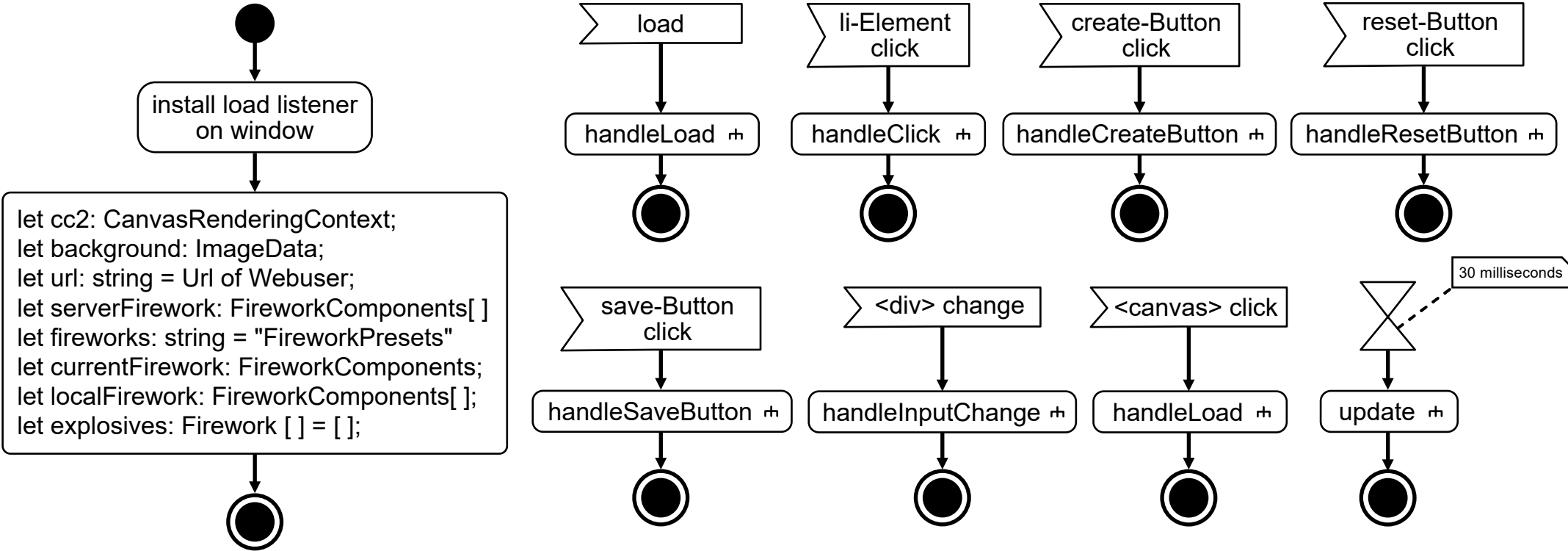
Firework: Activity Diagram: Cross



Firework: Activity Diagram



Firework: Activity Diagram 1



Interface: FireworkComponents

name: string;
colour: Colour;
pattern: Pattern;
size: number;
lifespan: number;
id: string;

Interface: ServerFireworkComponents

name: string;
colour: string;
pattern: string;
size: number;
lifespan: number;
id: string;

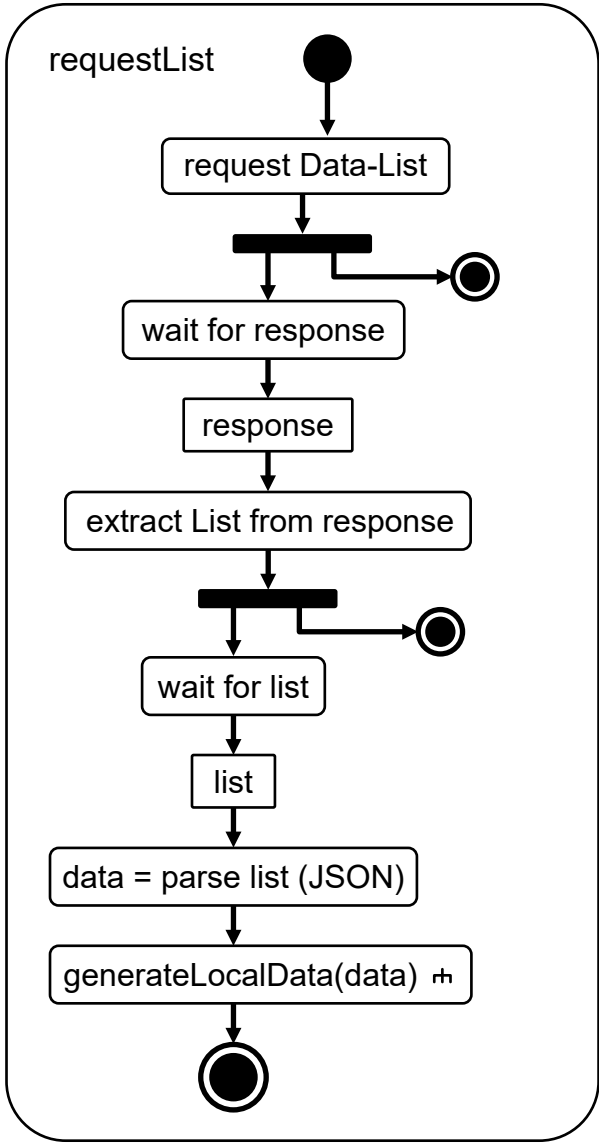
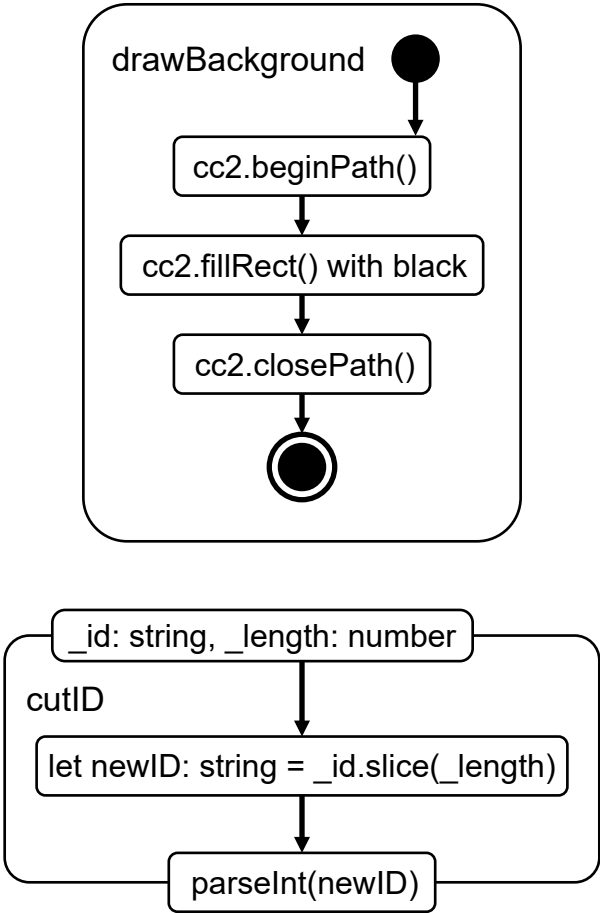
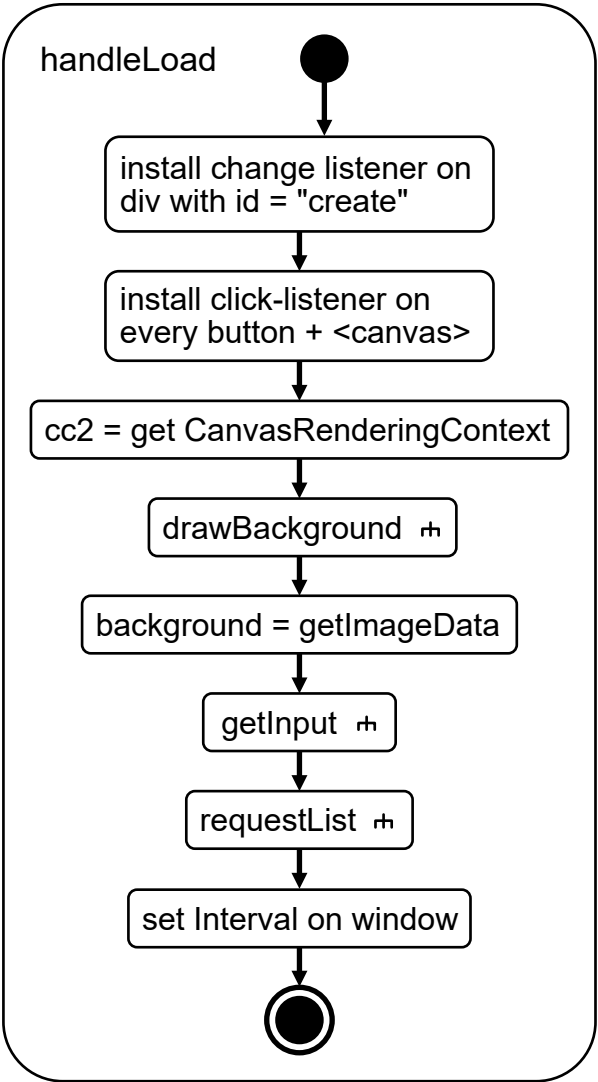
Pattern

circle = "Circle"
star = "Star"
cross = "Cross"

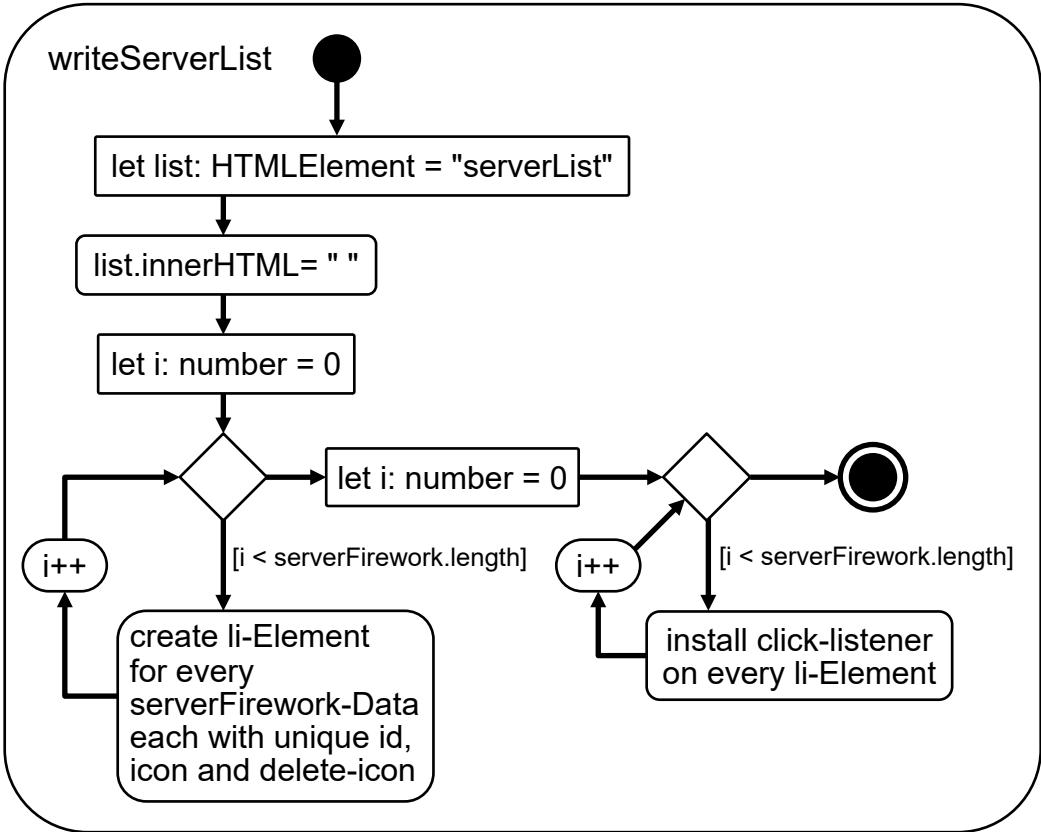
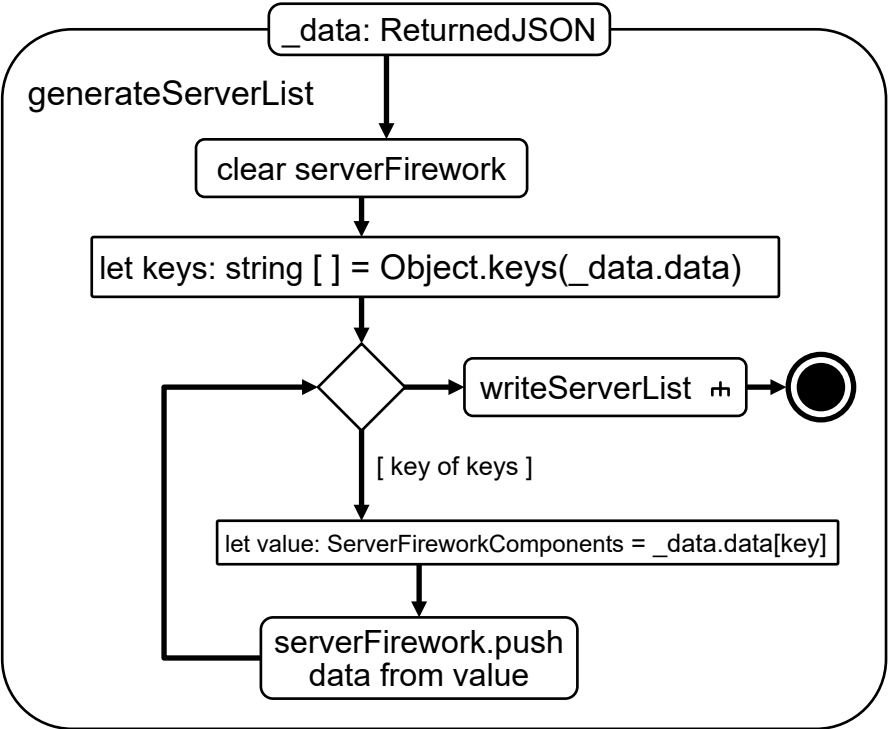
Interface: Colour

fColour: string;
hColour: string;
name: string;

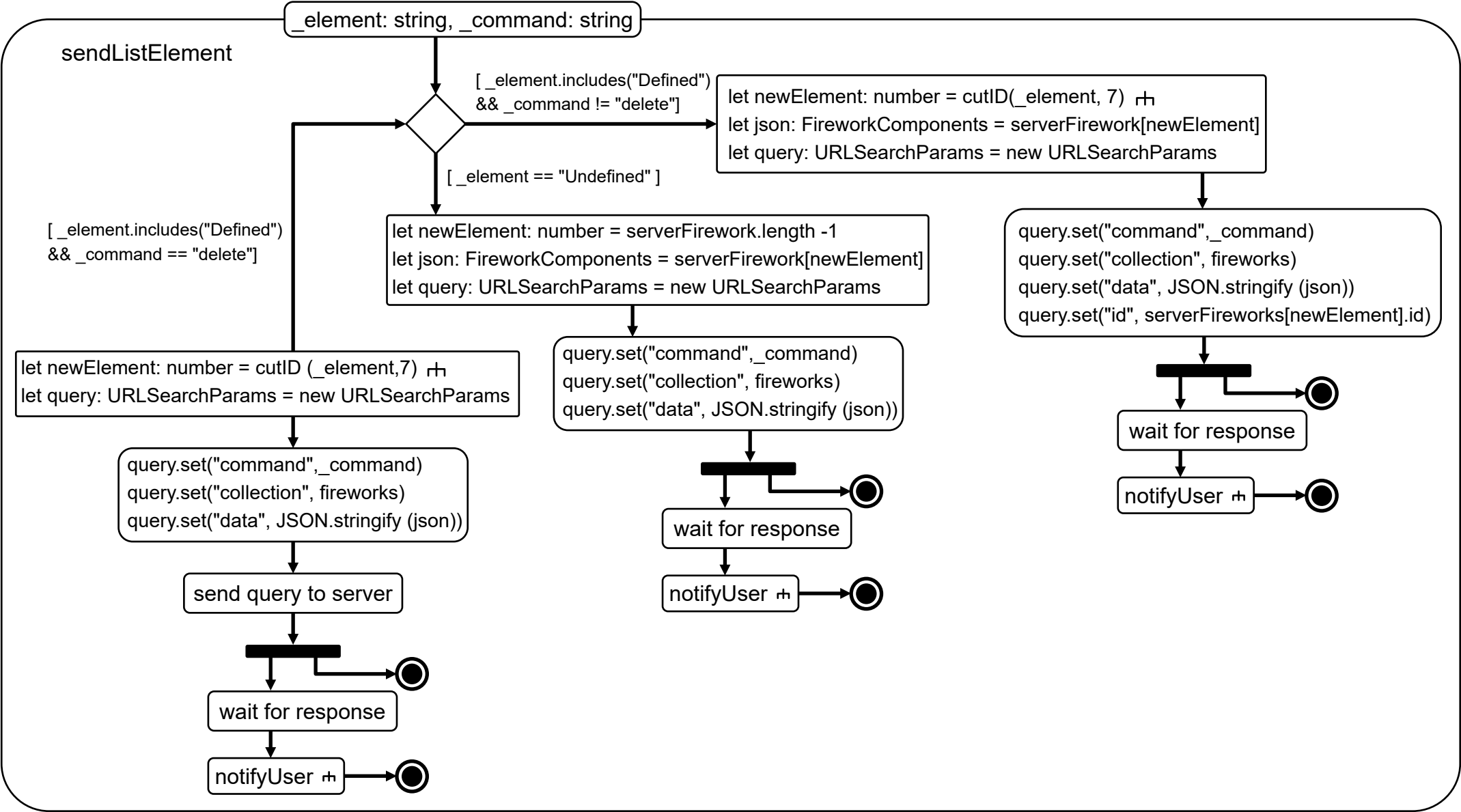
Firework: Activity Diagram 2



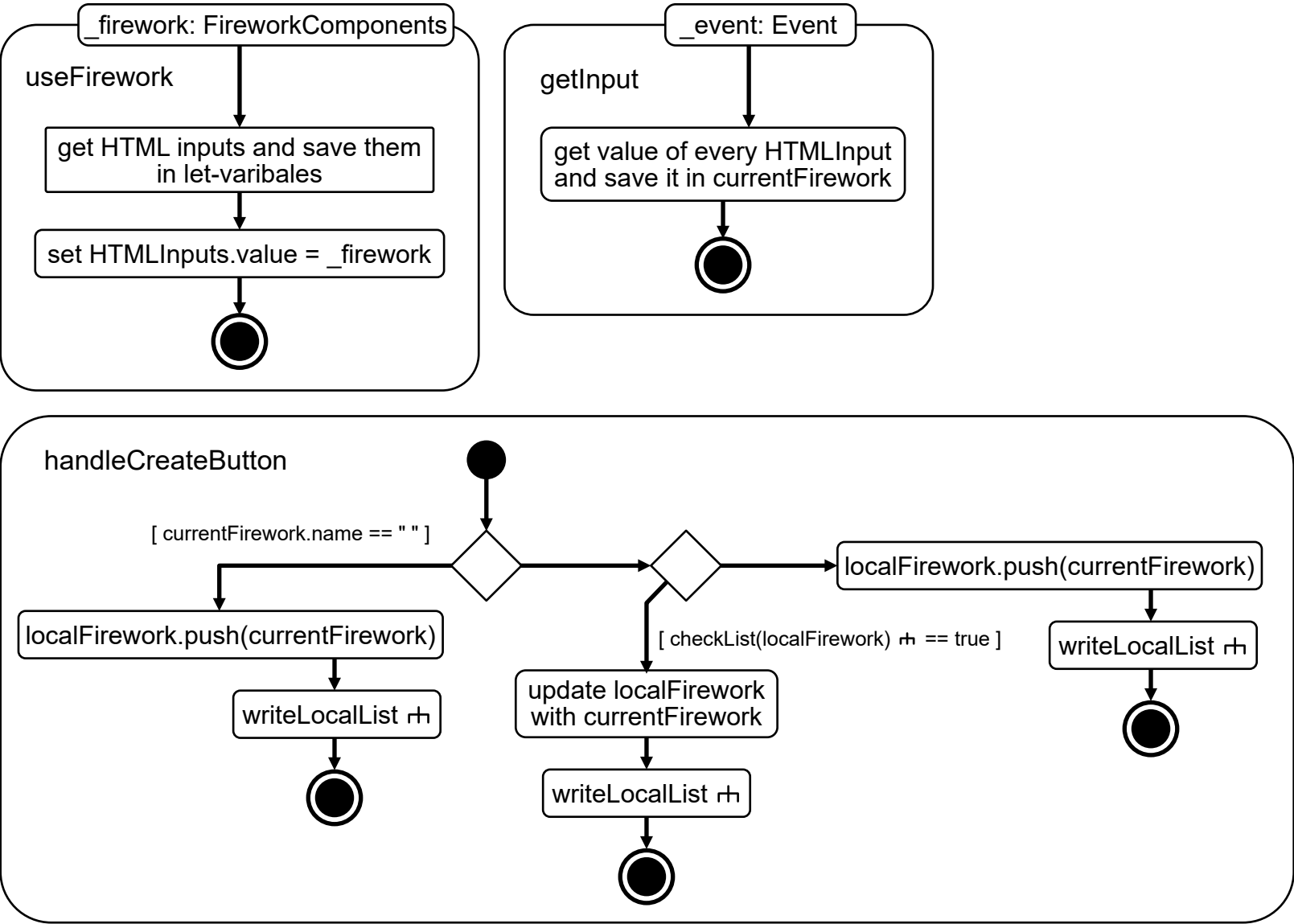
Firework: Activity Diagram 3



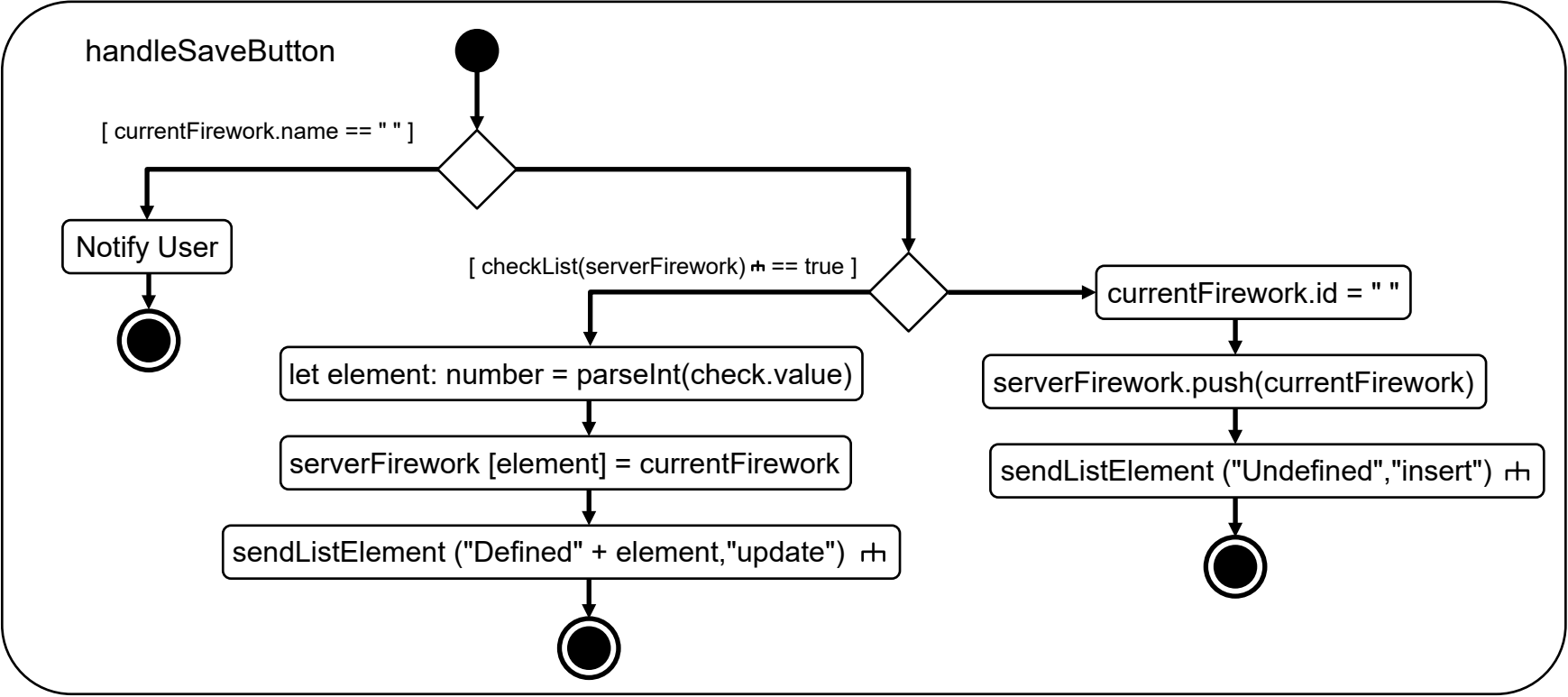
Firework: Activity Diagram 4



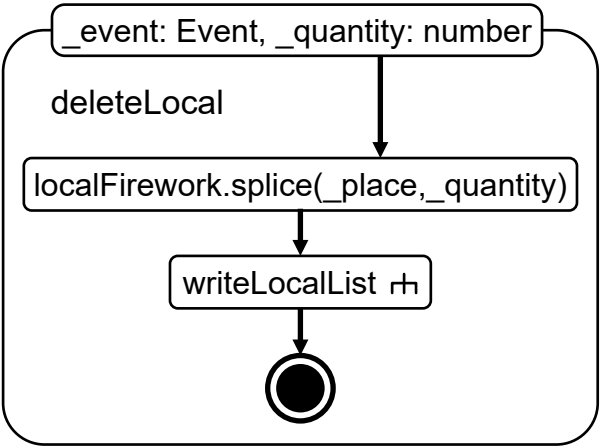
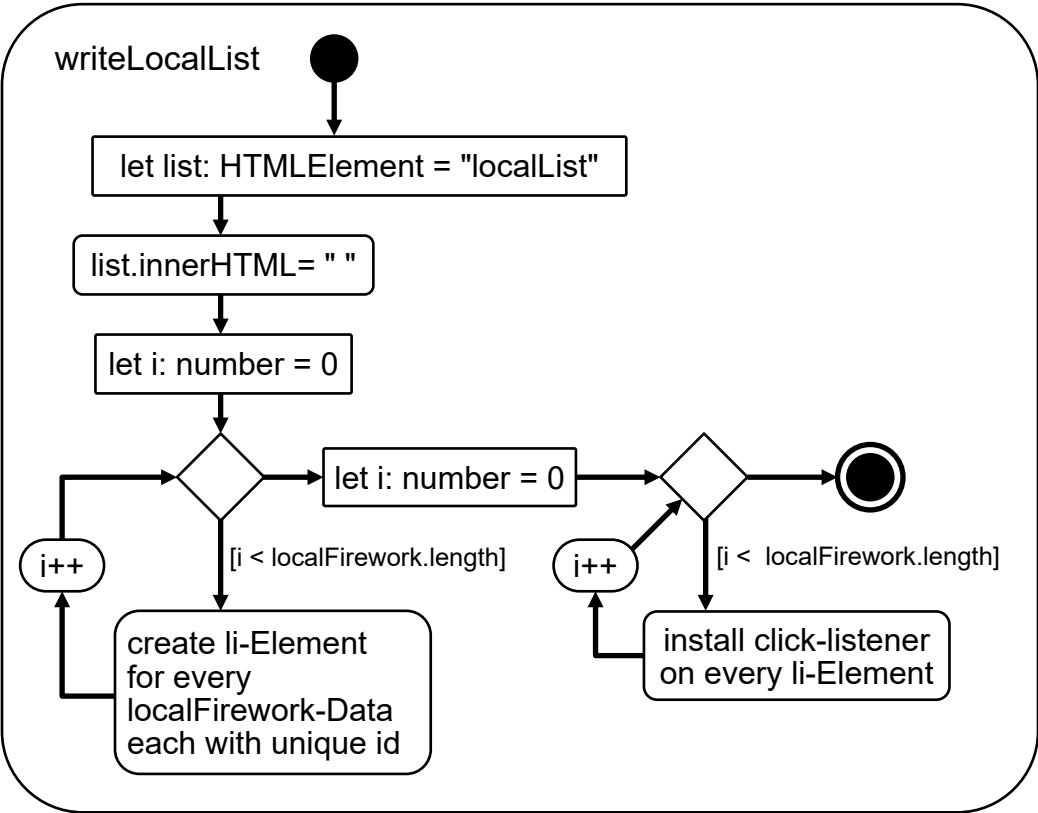
Firework: Activity Diagram 5



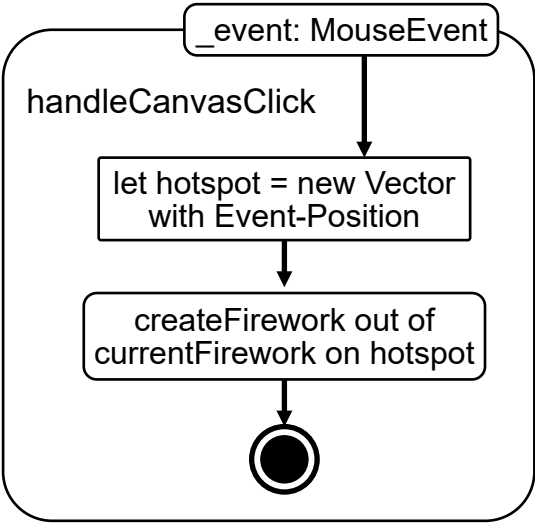
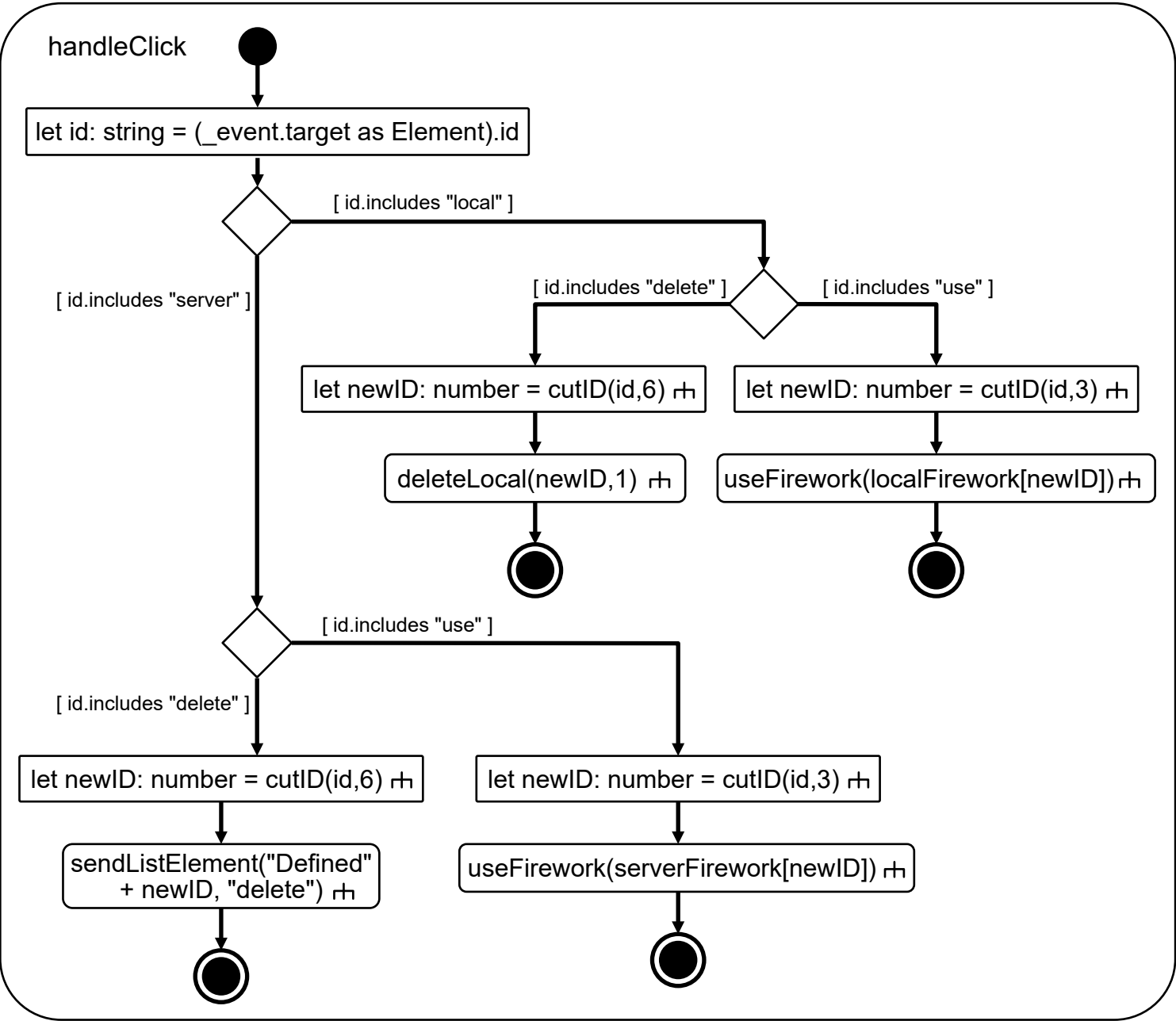
Firework: Activity Diagram 6



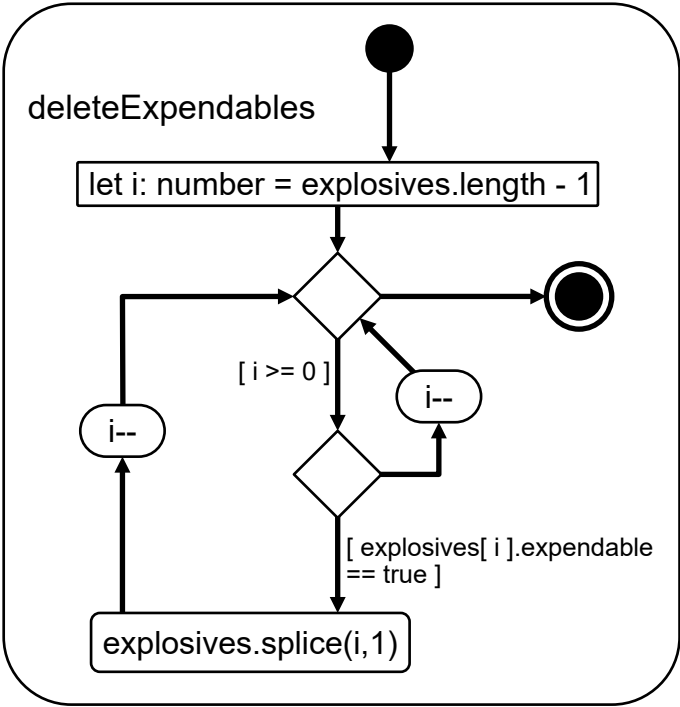
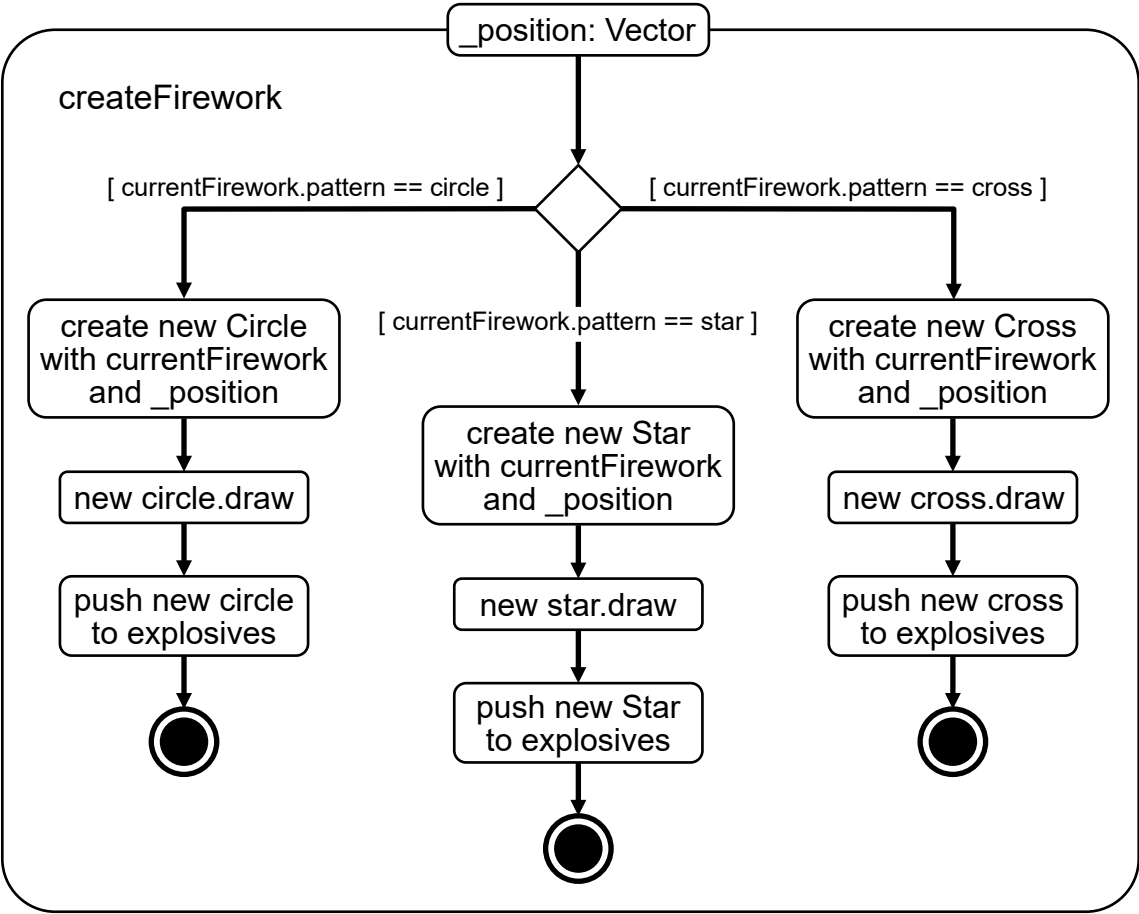
Firework: Activity Diagram 7



Firework: Activity Diagram 8



Firework: Activity Diagram 9



Firework: Activity Diagram 10

