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package fi.paatti.research.paattiapplication.views.eventview.tools;

import java.awt.Graphics;
import java.io.Serializable;

/**
 * Clickable is an abstract class that provides the functionality needed by
 * simple clickable, rectangular items such as context menus etc. Basically a
 * very simplified version of the Rectangle class. Clickable has just one method
 * for checking whether a point lies inside the area.
 *
 * @author Tapio Keränen, t.tapio.keranen@student.jyu.fi
 */
public abstract class Clickable implements Serializable {
    protected int x, y;
    protected int width, height;

    /**
     * Checks whether or not this node contains the point at the specified
     * location (x,y).
     *
     * @param x the specified X coordinate.
     * @param y the specified Y coordinate.
     * @return true if the point (X,Y) is inside, otherwise false.
     */
    public boolean contains(int x, int y) {
        return (x >= this.x && x <= this.x + width) && (y >= this.y && y <= this.y + height);
    }

    /**
     * Paints the clickable to the graphics context.
     *
     * @param g the graphics context.
     */
    public abstract void paint(Graphics g);
}
```