



# E-Scooter Verwaltung



Team “¬\_(ツ)\_/¬”



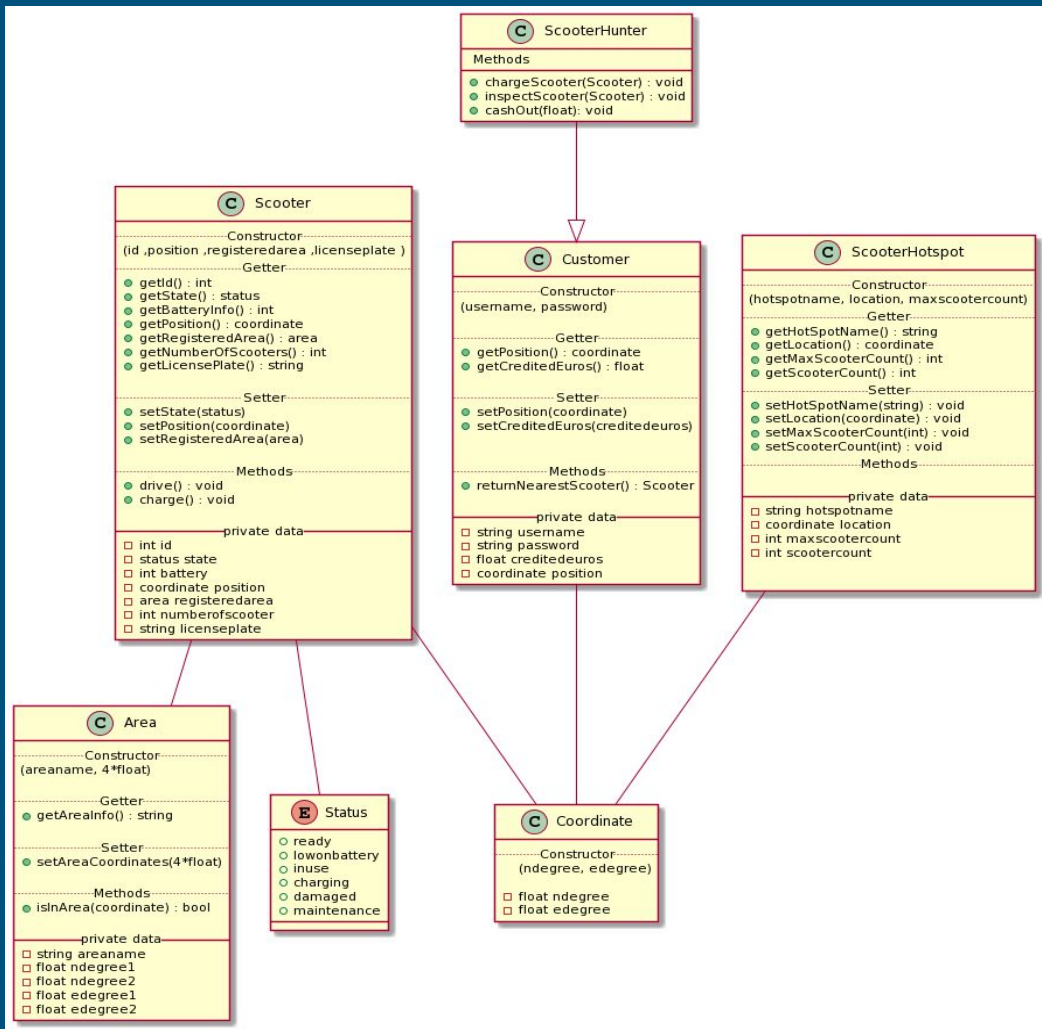
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# Gliederung

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# UML



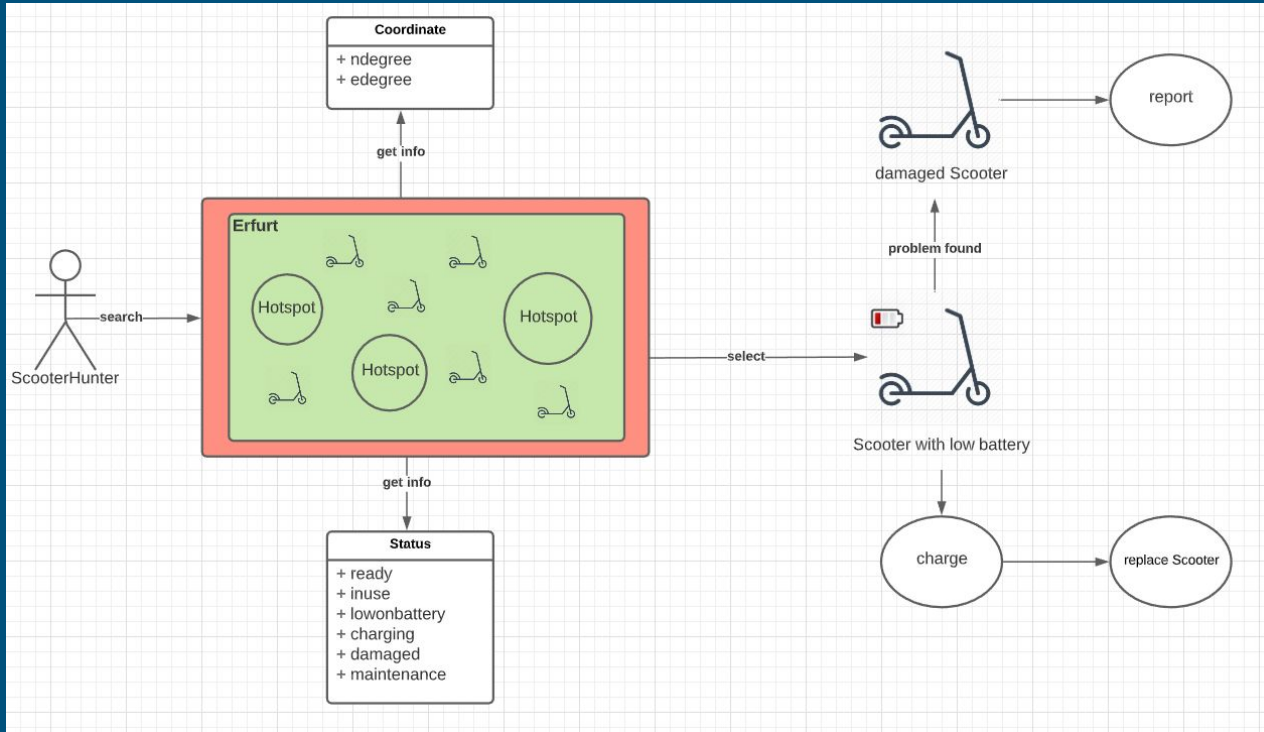
# Scooter Area mit Hotspots



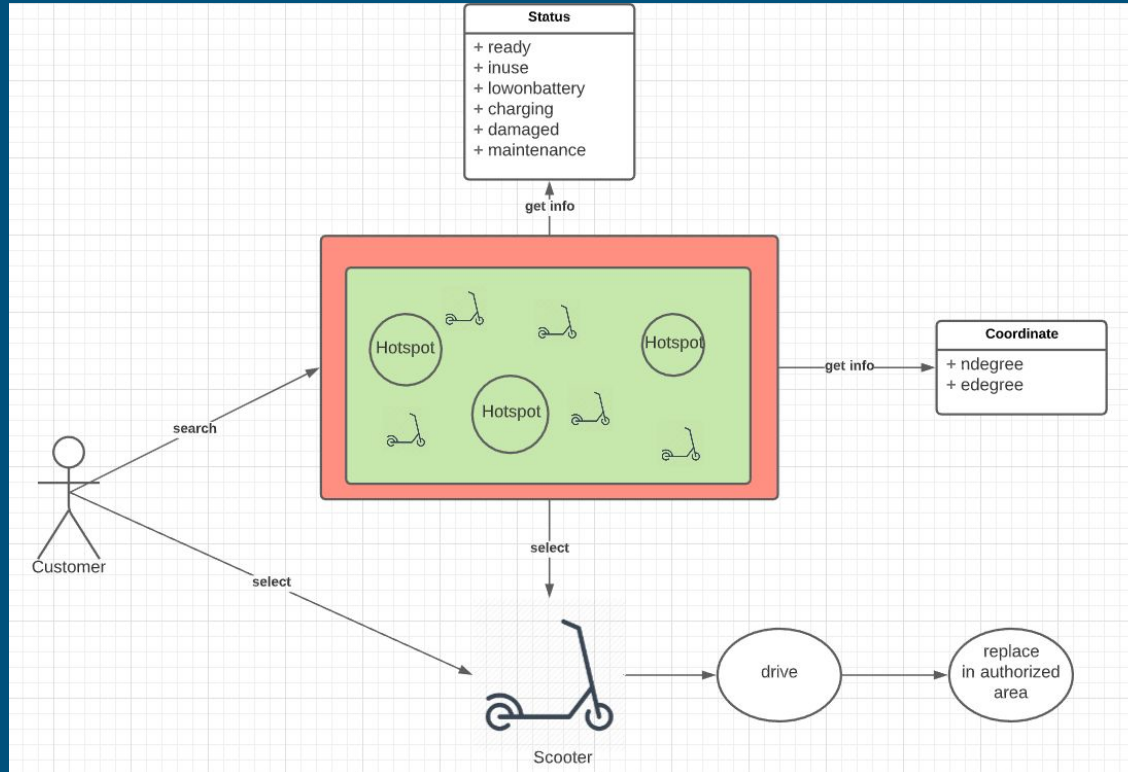
<https://scribblemaps.com>



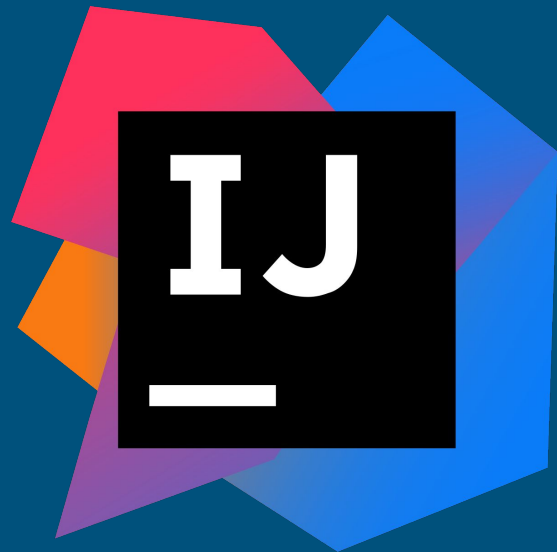
# Scooter Hunter



# Customer







# IJ

# Code

```
package de.teamshrug.scootermis;

public class Area {

    public Area(String _areaname, float _ndegree1, float _ndegree2, float _edegree1, float _edegree2) {
        this.areaname = _areaname;
        this.ndegree1 = _ndegree1;
        this.ndegree2 = _ndegree2;
        this.edegree1 = _edegree1;
        this.edegree2 = _edegree2;
    }

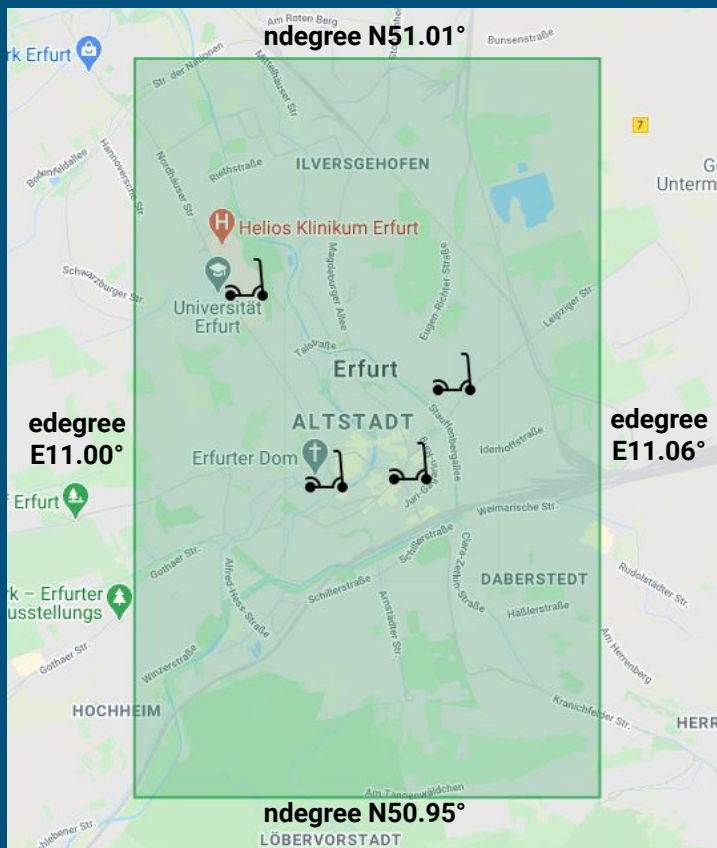
    public boolean isInArea(Coordinate _position)
    {
        if (((ndegree1 < _position.ndegree) && (_position.ndegree < ndegree2)) || ((ndegree1 > _position.ndegree) && (_position.ndegree > ndegree2)))
        {
            if (((edegree1 < _position.edegree) && (_position.edegree < edegree2)) || ((edegree1 > _position.edegree) && (_position.edegree > edegree2)))
            {
                return true;
            }
            else
                return false;
        }
        else
            return false;
    }

    public String getAreaInfo()
    {
        return areaname + ": N" + ndegree1 + "° - N" + ndegree2 + "° & E" + edegree1 + "° - E" + edegree2 + "°";
    }

    private final String areaname;
    private final float ndegree1;
    private final float ndegree2;
    private final float edegree1;
    private final float edegree2;
}
```



# erster Test



```
package de.teanshrug.scooterms;

import org.junit.jupiter.api.Test;
import static org.junit.jupiter.api.Assertions.*;

public class AreaTest {

    @Test
    public void isInAreaTest()
    {
        Area testArea = new Area(_name: "TestArea", _ndegree1: 50.94f, _ndegree2: 51.11f, _edegree1: 10.98f, _edegree2: 11.04f);
        Coordinate testPositionInArea = new Coordinate(_ndegree: 50.978906f, _edegree: 11.029587f);

        assertTrue(testArea.isInArea(testPositionInArea), "message: "If ndegree is between ndegree1 and ndegree2 (same for edegree), the scooter is in the area");
    }
}
```

# weiteres Vorgehen

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- Methoden verfeinern
- Klassen erweitern
- Tests schreiben

Danke für eure Aufmerksamkeit