

#### **Bachelor's Thesis**

# Providing a distributed file storage for German Schul-Cloud

Erstellung einer verteilten Dateiverwaltung für die deutsche Schul-Cloud

by

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I certify that the material contained in this dissertation is my own work and does not contain significant portions of unreferenced or unacknowledged material. I also warrant that the above statement applies to the implementation of the project and all associated documentation.

Hiermit versichere ich, dass diese Arbeit selbständig verfasst wurde und dass keine anderen Quellen und Hilfsmittel als die angegebenen benutzt wurden. Diese Aussage trifft auch für alle Implementierungen und Dokumentationen im Rahmen dieses Projektes zu.

Potsdam, April 5, 2017	
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#### 1. Introduction



## 1. Introduction



## 2. Related Work



# 3. Concept



# 4. Implementation



## 5. Evaluation



## 6. Future Work



## 7. Conclusion



#### A. Appendix

```
public class SensorActivity extends Activity implements SensorEventListener {
     private SensorManager sensorManager;
     private Sensor accelerometer;
     @Override
     public final void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView (R. layout.main);
       sensorManager = (SensorManager) getSystemService(Context.SENSOR_SERVICE);
10
       accelerometer = sensorManager.getDefaultSensor(Sensor.TYPE_ACCELEROMETER);
11
12
     @Override
13
     protected void onResume() {
14
       super.onResume();
       sensorManager.registerListener(this, accelerometer, SensorManager.SENSOR_DELAY_NORMAL);
16
18
     @Override
19
     protected void onPause() {
20
21
       super.onPause();
22
       sensorManager.unregisterListener(this);
23
24
     @Override
25
     public final void onSensorChanged(SensorEvent event) {
       StringBuilder log = new StringBuilder("Acceleration:");
       log.append(" X: ").append(String.valueOf(event.values[0]));
28
       log.append(" Y: ").append(String.valueOf(event.values[1]));
29
30
       log.append(" Z: ").append(String.valueOf(event.values[2]));
       System.out.println(log.toString());
31
32
     @Override
34
     public final void onAccuracyChanged(Sensor sensor, int accuracy) {
       // sensor accuracy changed
36
37
38
   }
```

Listing 1: Activity with lifecycle callbacks