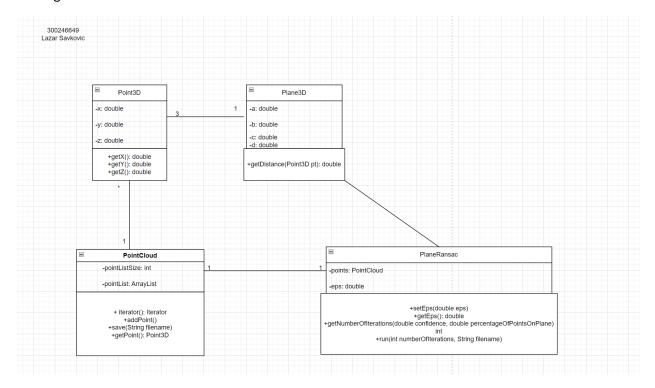
Le Diagrame UML:



Instructions:

```
public class Main {
    Run | Debug

public static void main(String[] args) {
    PointCloud cloud = new PointCloud(filename: "PointCloud1.xyz"); // change file to get new result
    PlaneRANSAC ransac = new PlaneRANSAC(cloud);
    ransac.setEps(eps: 0.5);
    // gets three dominant planes for pointCloud1
    ransac.run(ransac.getNumberOfIterations(Confidence: 0.99, percentageOfPointsOnPlane: 0.90), filename: "PointCloud1_p");

PointCloud cloudTwo = new PointCloud(filename: "PointCloud2.xyz"); // change file to get new result
    PlaneRANSAC ransacTwo = new PlaneRANSAC(cloudTwo);
    // gets three dominant planes for pointCloud2
    ransacTwo.run(ransacTwo.getNumberOfIterations(confidence: 0.99, percentageOfPointsOnPlane: 0.90), filename: "PointCloud2_p");

PointCloud cloudThree = new PointCloud(filename: "PointCloud3.xyz"); // change file to get new result
    PlaneRANSAC ransacThree = new PlaneRANSAC(cloudThree);
    // gets three dominant planes for pointCloud3
    ransacThree.run(ransacThree.getNumberOfIterations(Confidence: 0.99, percentageOfPointsOnPlane: 0.90), filename: "PointCloud3_p");
}
```

Pour augmenter le nombre de iteration vous devez reduire le nombre de percentageOfPoints on the plane. Par example si tu veut plus de iteration tu peux le reduire a 0.80. Mais si tu veut moin de iteration tu peut l'augmenter a 0.95 ou meme 0.99. ne toucher pas confidence car c'est donner. Ne toucher pas a filename.

(Je vous suggere a l'augmenter si vous voulez)