1- Diagrama de classe

```
public interface Collection {
    public void equals ( ) {
    }
    public void add( ) {
    }
}

public class Pedido {
    String Itens_de_Linha [];
    List list = new List( );
}

public interface List extends Collection {
    public void get ( ) {
    }
}

public abstract class Abstract_List implements List {
    public void equal ( ) {
    }
    public void get ( ) {
    }
    public void add ( ) {
    }
}

public class ArrayList extends Abstract_List {
    public void get ( ) {
    }
    public void add ( ) {
    }
}
```

2ème Diagramme de classe

```
public class Project {
    String name;
    String description;

    Feature f;
    ReferenceSequence rs;
    Source s;
    Caligment a;
}

public class Feature {
    String name;
    String displayName;
    String description;
}

public class FeatureLocation {
    Variation v;
    FeatureSegment fs;
}

public class Variation {
    String name;
    String displayName;
    String description;
    String scannerModuleName;
    String translationType;

    PatternLocation pl;
}

public class PatternLocation {
    int refStart;
    int refEnd;
    String pattern;
}

public class FeatureSegment {
    int refStart;
    int refEnd;
}

public class ReferenceSequence {
    String name;
    String displayName;

    FeatureLocation fl;
}

public class Source {
    String name;

    Sequence s;
}

public class Sequence {
    String sequenceID;
    String format;
}
```

```
public class CAlignment Member {
    String referenceMember;

    CAligned Segment as;
}

public class CAligned Segment {
    int refStart;
    int refEnd;
    int memberStart;
    int memberEnd;
}

public class CAlignment {
    String name;
    String displayName;
    String description;

    CAlignment Member am;
}
```

3- Diagrama de classe

```
public class Molecular_sample {
    public String molecule;
}

public class Anatomic_location {
}

public class Population {
    public String race;
    public String ethnicity;
    public String primary_language;
    public String language_family;
}

public class Panel extends Population {
    public long size;
    public String count_unity;
    public boolean pooled;
    public String type;

    Individual i;
}

public class Individual extends Population {
    public String father_id;
    public String mother_id;
    public String sex;
    public String birth_date;
    public int death_date;
}
```

```
public class Taxon {
    public String rank;
    public String scientific_name;
}

public class Geographic_location {
    public double max_longitude;
    public double max_latitude;
    public double min_longitude;
    public double min_latitude;
}
```