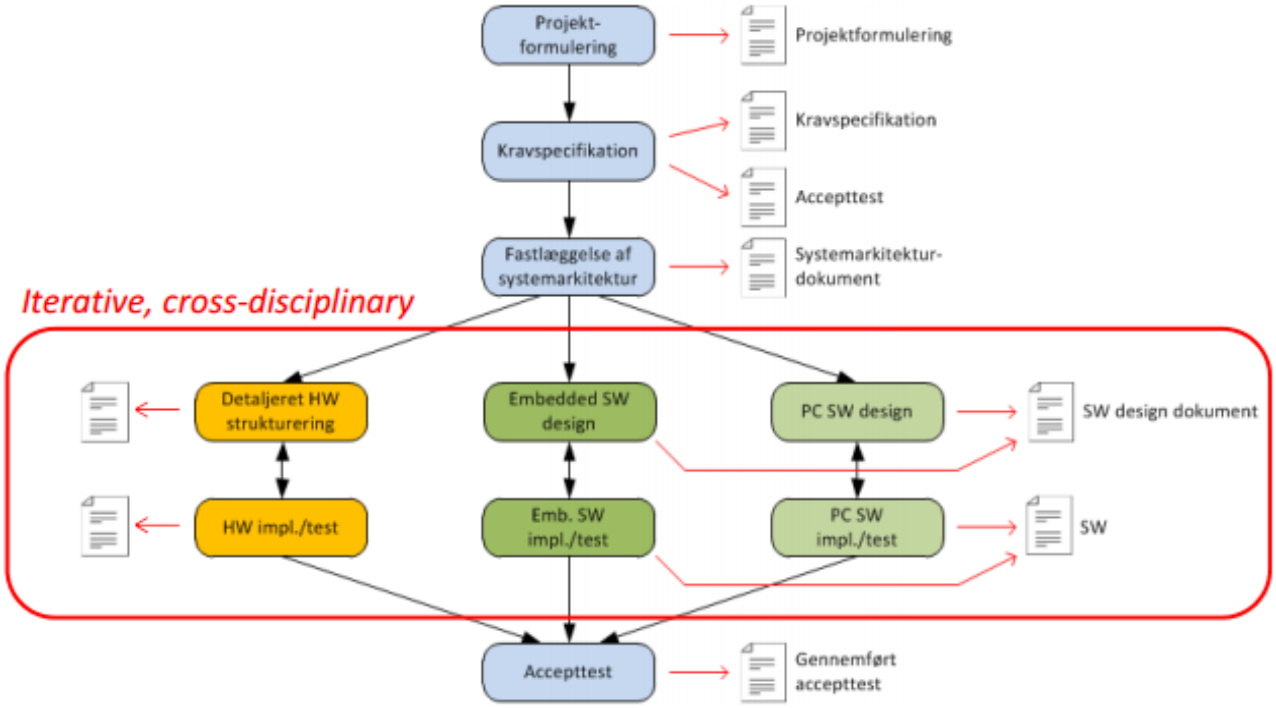
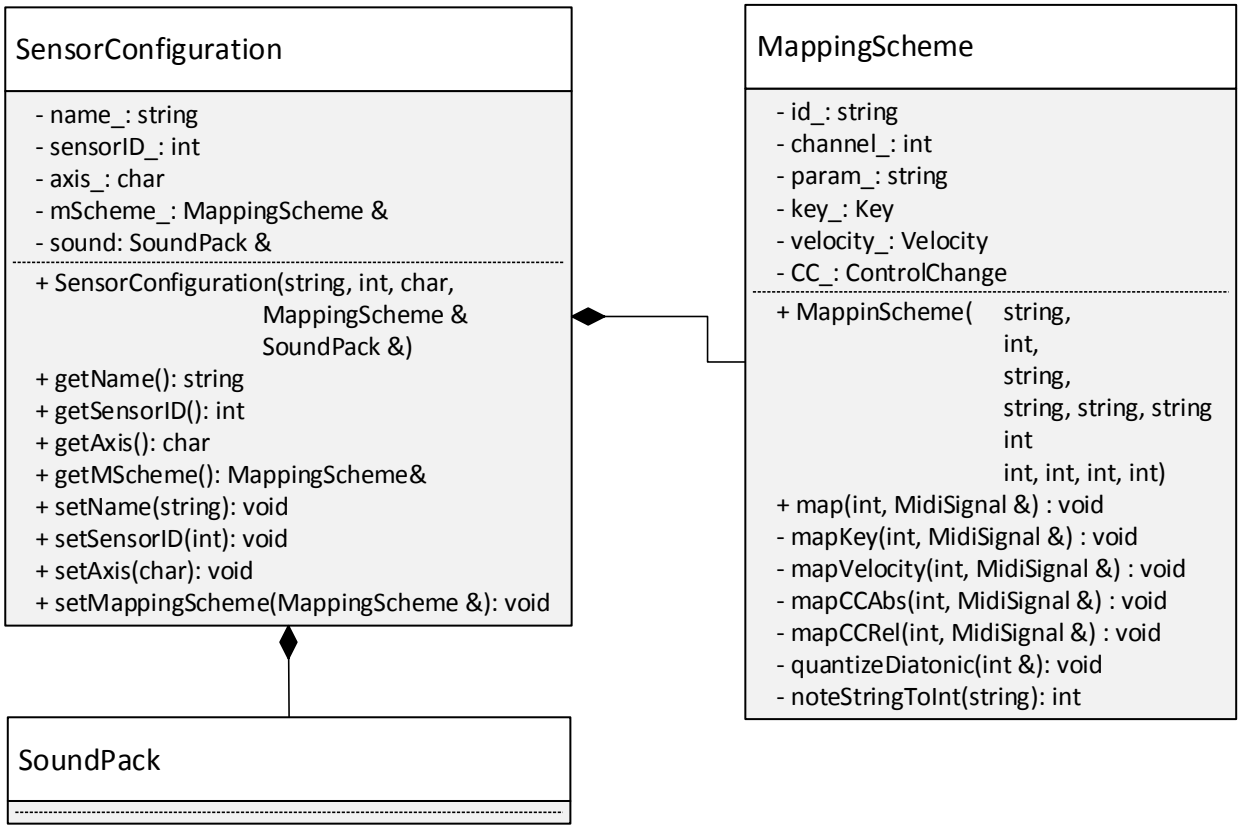
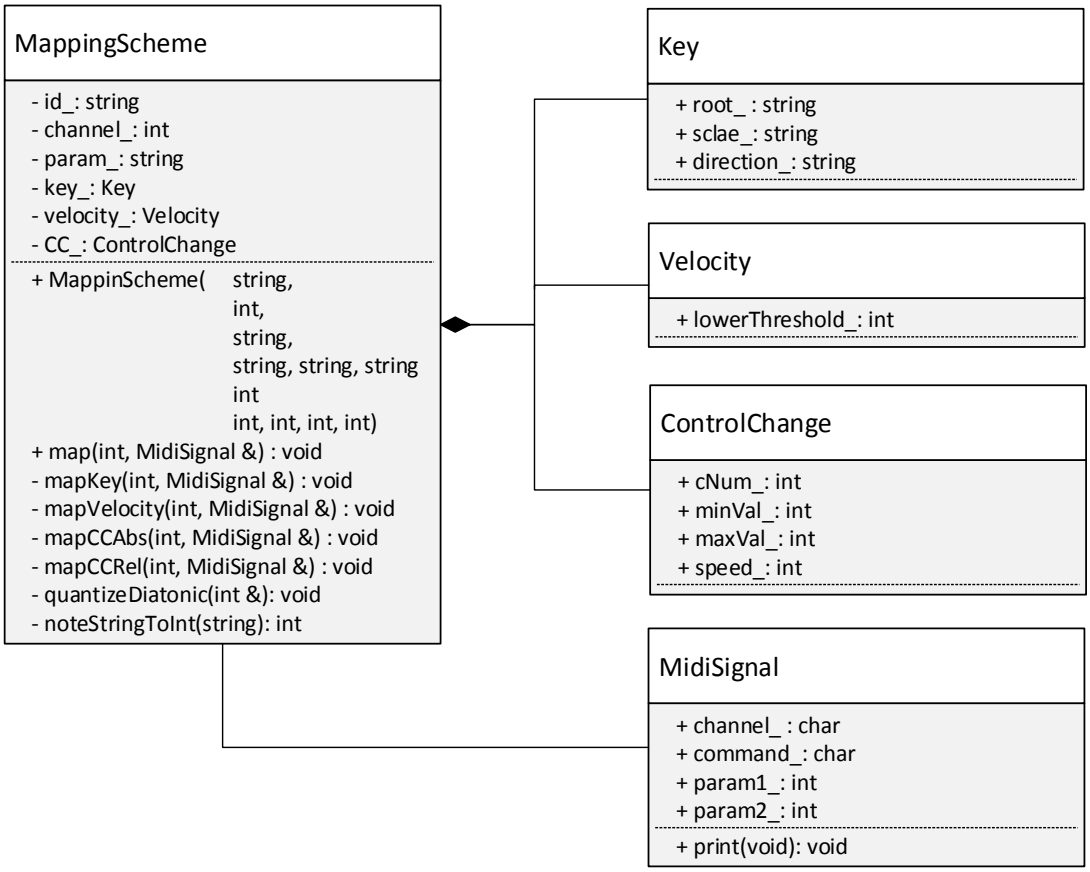
Udviklingsmodel



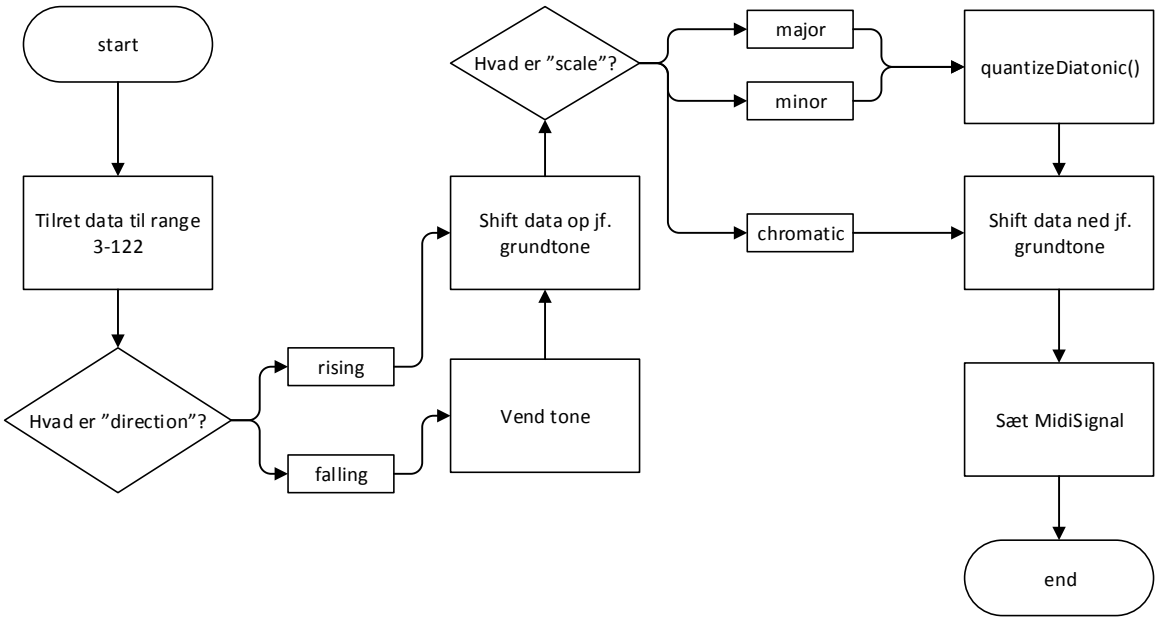
SensorConfuration Klassediagram



MappingScheme Klassediagram



mapKey flowdiagram



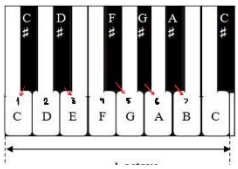
Eks:

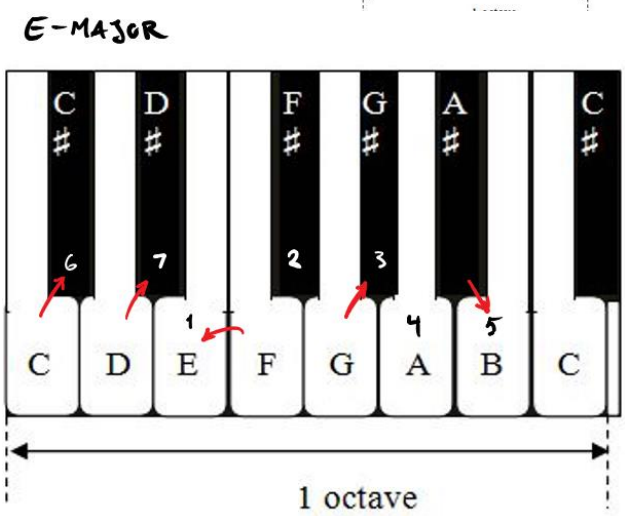
Input	dataIn = 120
Tilret data til range 3-122	dataIn = 120-3 = 117
Falling	dataIn = 119-117 = 2
Shift data op jf. grundtone	e: dataIn = 2 + 13-5 = 10
Hvad er ”scale”	Major
quantizeDiatonic	Notestep = 10%12 = 10 dataIn = 10+1 = 11
Shift data ned jf. grundtone	e: dataIn = 11 – (13-5) = 3
Sæt MidiSignal	

```
void MappingScheme::quantizeDiatonic(int &dataIn)
{
    if(MAPDEBUG)
        cout << "inside quantizeDiatonic\n";

    int noteStep = dataIn%12;

    if(key_.scale_=="major")
    {
        if(MAPDEBUG)
            cout << "inside major quantizer\n";
        /**** Major (dur) kvantisering herunder ****/
        switch (noteStep){
            case 0:                     //prim
            case 2:                     //sekund
            case 4:                     //terts
            case 5:                     //kvart
            case 7:                     //kvint
            case 9:                     //sekst
            case 11:                    //septim
                break;                  //do nothing
            case 1: dataIn--; break;    //down to scale step 1
            case 3: dataIn++; break;    //up to scale step 3
            case 6: dataIn++; break;    //up to scale step 5
            case 8: dataIn++; break;    //up to scale step 6
            case 10: dataIn++; break;   //up to scale step 7
        }
    }else if(key_.scale_=="minor")
```





MidiModule Klassediagram