



Figure 2.1: The simplified use case diagram of an ATM.

## 2.2 Sequence diagrams

In this section we shall present some easy examples of sequence diagrams.

### 2.2.1 The norm of a vector

Consider the following algorithm for computing the norm of a vector.

```

Class Array {
    ...
    public:

        // return the index-th component of the array
        double get(int index);
    ...
};

double norm(const Array& myArray) {
    double theNorm = 0;
    for(int index = 0; index < myArray.size() - 1; index++) {
        theNorm = theNorm + myArray.get(index);
    }
    theNorm = sqrt(theNorm);
    return theNorm;
}

```