# CODING CHALLENGE – PROTECTING THE QUEEN

# DATA MODEL DESCRIPTION

In our application we have 3 models:  the **Kingdom,** the **Queen** and the **Coordinates** model

## 1. Coordinates model

```
Coordinates {
        x       :       Integer;
        y       :       Integer ;
}
```

This model stores the position of the queen in her kingdom.

## 2. Queen Model

```
Queen {
        coordinates     :       Coordinates;
        direction       :       enum{"NORTH", "SOUTH", "WEST", "EAST"};
}
```

The Queen model is used to represent a queen. It stores the coordinates of the queen in the kingdom, and the direction, where the queen is moving to.

## 3. The Kingdom model

```
Kingdom {
        width   :       Integer ;
        length  :       Integer ;
        queen   :       Queen ;
}
```

This model is used to represent a kingdom. It has 3 attributes. The first is the width of the kingdom. The second attribute is the length of the kingdom and the third attribute is the queen of the kingdom.