

CODING CHALLENGE – PROTECTING THE QUEEN

DATA MODEL DESCRIPTION

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

1. Coordinates model

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

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

2. Queen Model

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

The Queen data 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 {  
    integer : width;  
    integer : length;  
    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.