

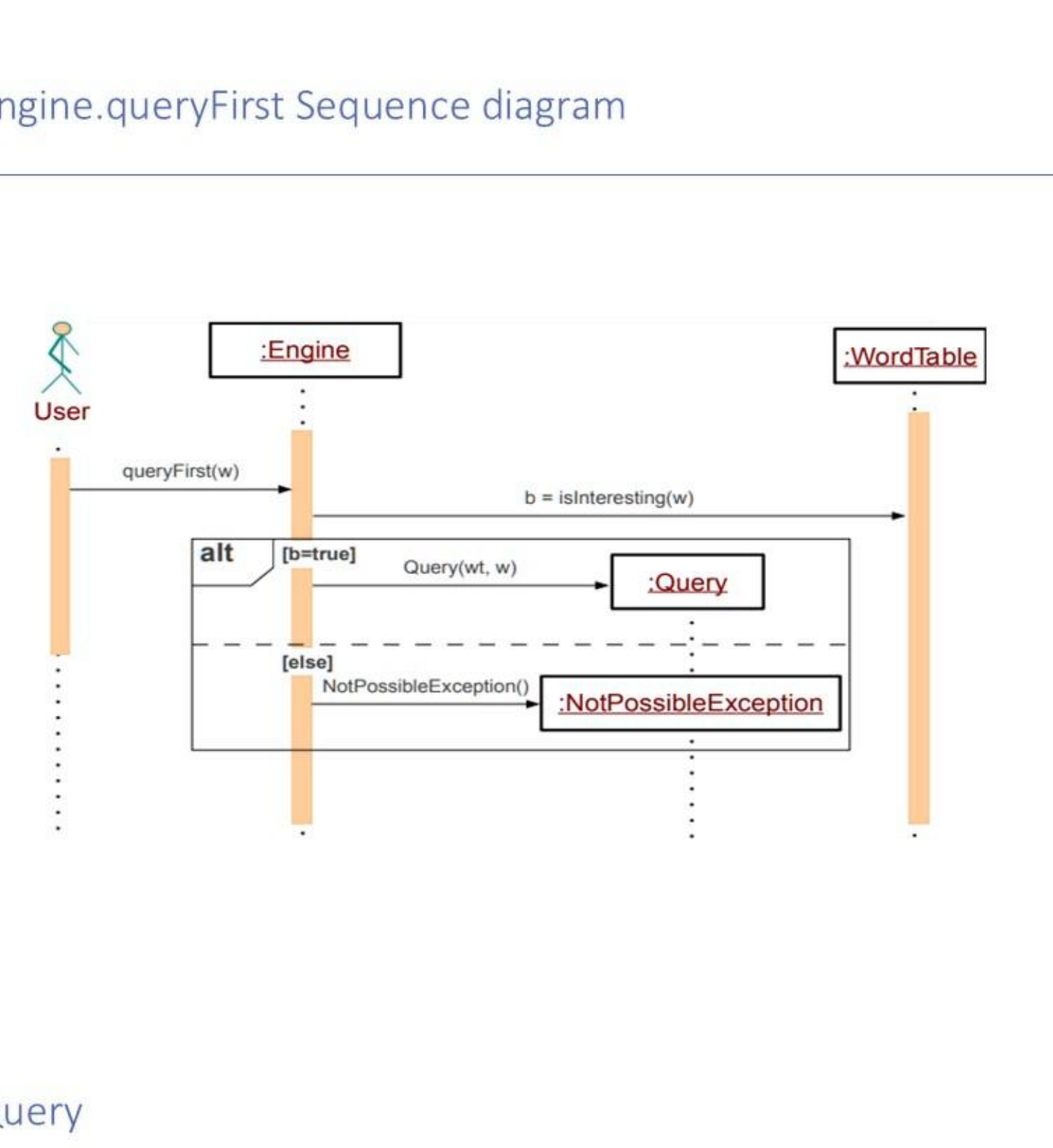
## Lecture 11

## Implement Example

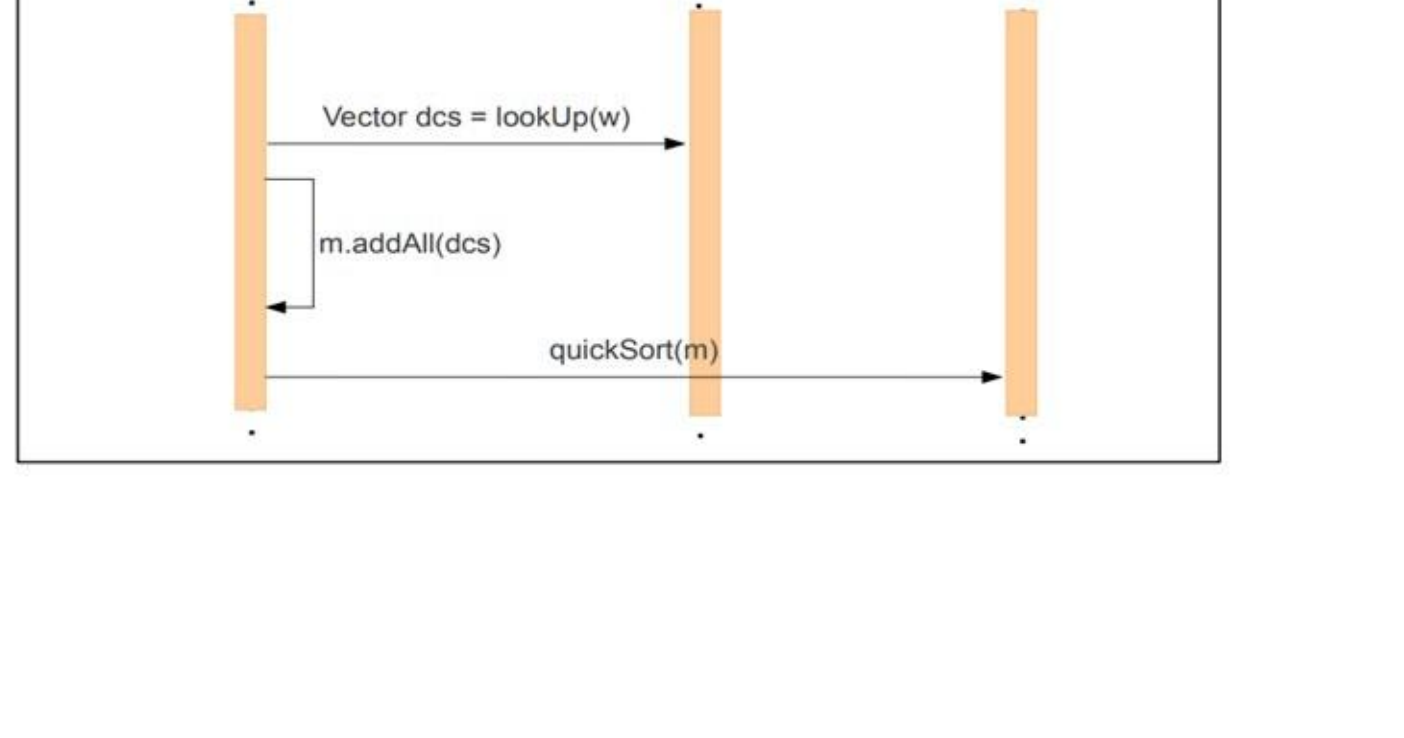
## Outline

## •Example

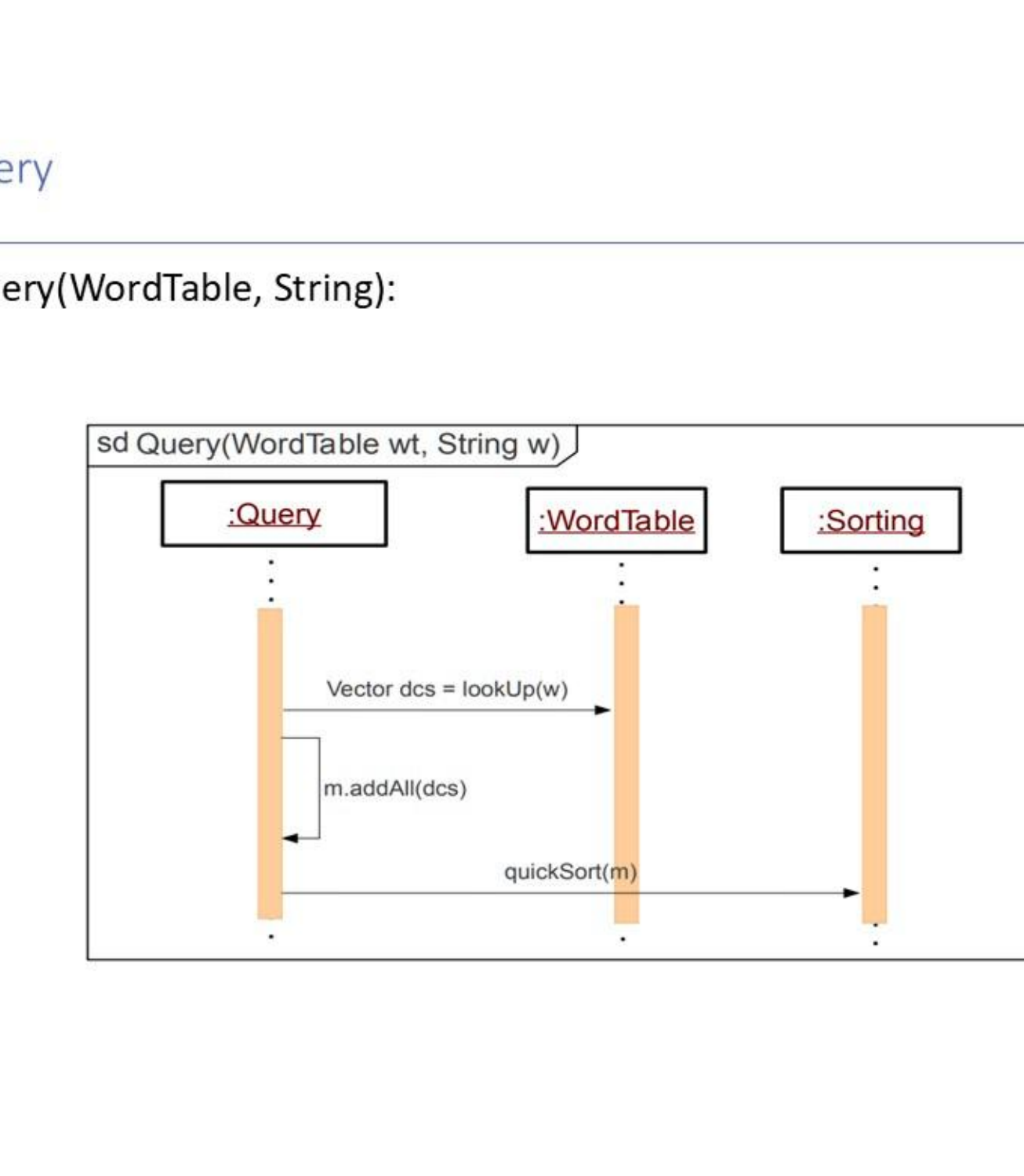
## Design class diagram



## Engine.addDocs Sequence diagram

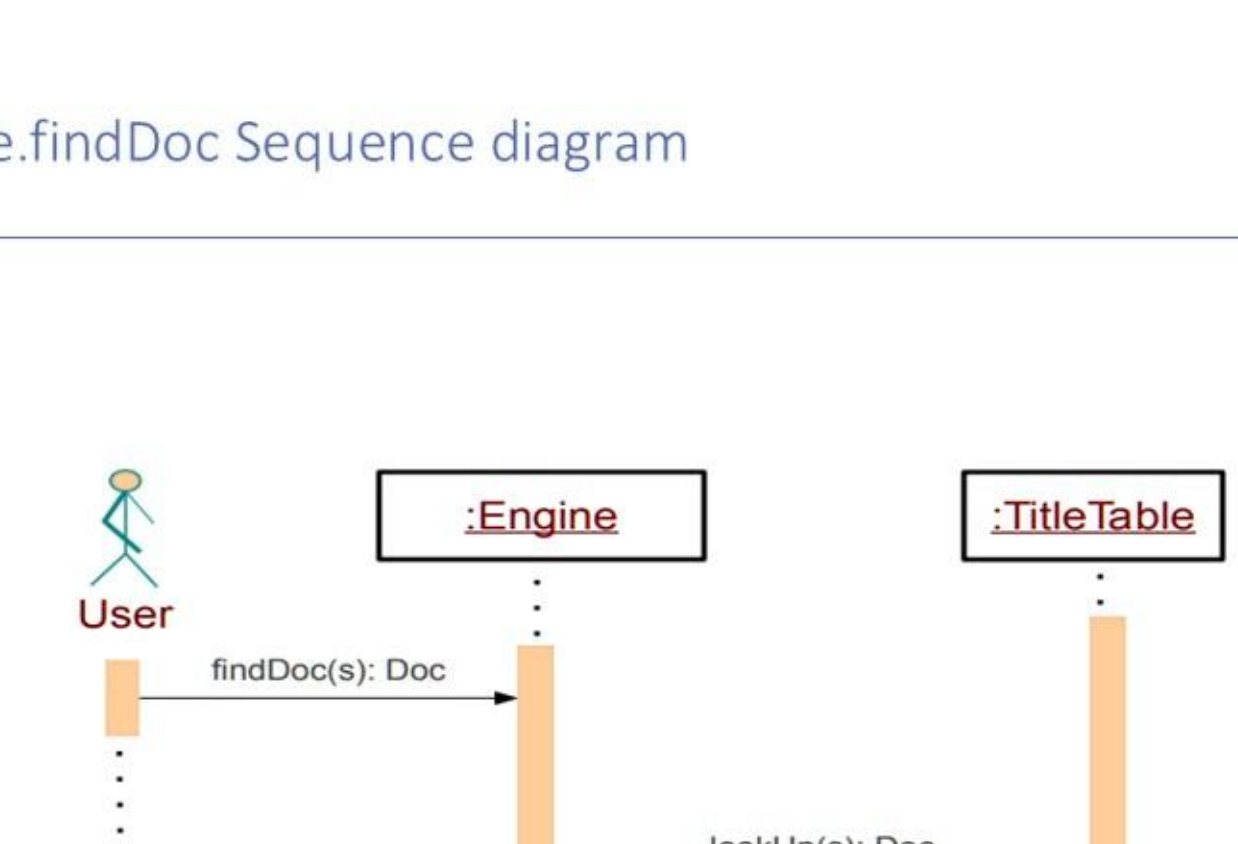


## Engine.queryFirst Sequence diagram



## Query

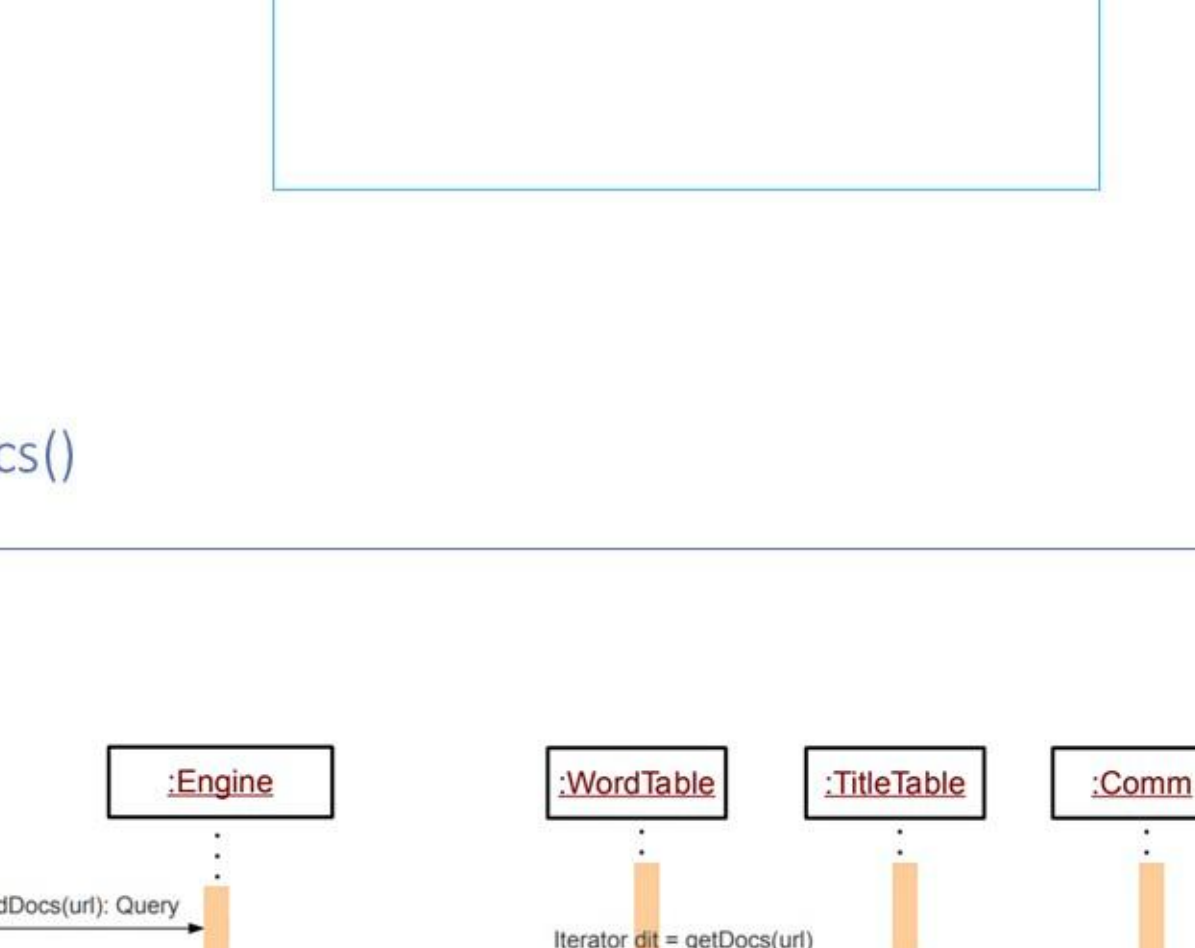
## •Query(WordTable, String):



## Engine.queryMore Sequence diagram



## Engine.findDoc Sequence diagram



## Walk through the design using example

- Doc d1: t1
  - (W1,6), (w2,12)
- Doc d2: t2
  - (W1,10)
- Doc d3: t3
  - (W2,4)

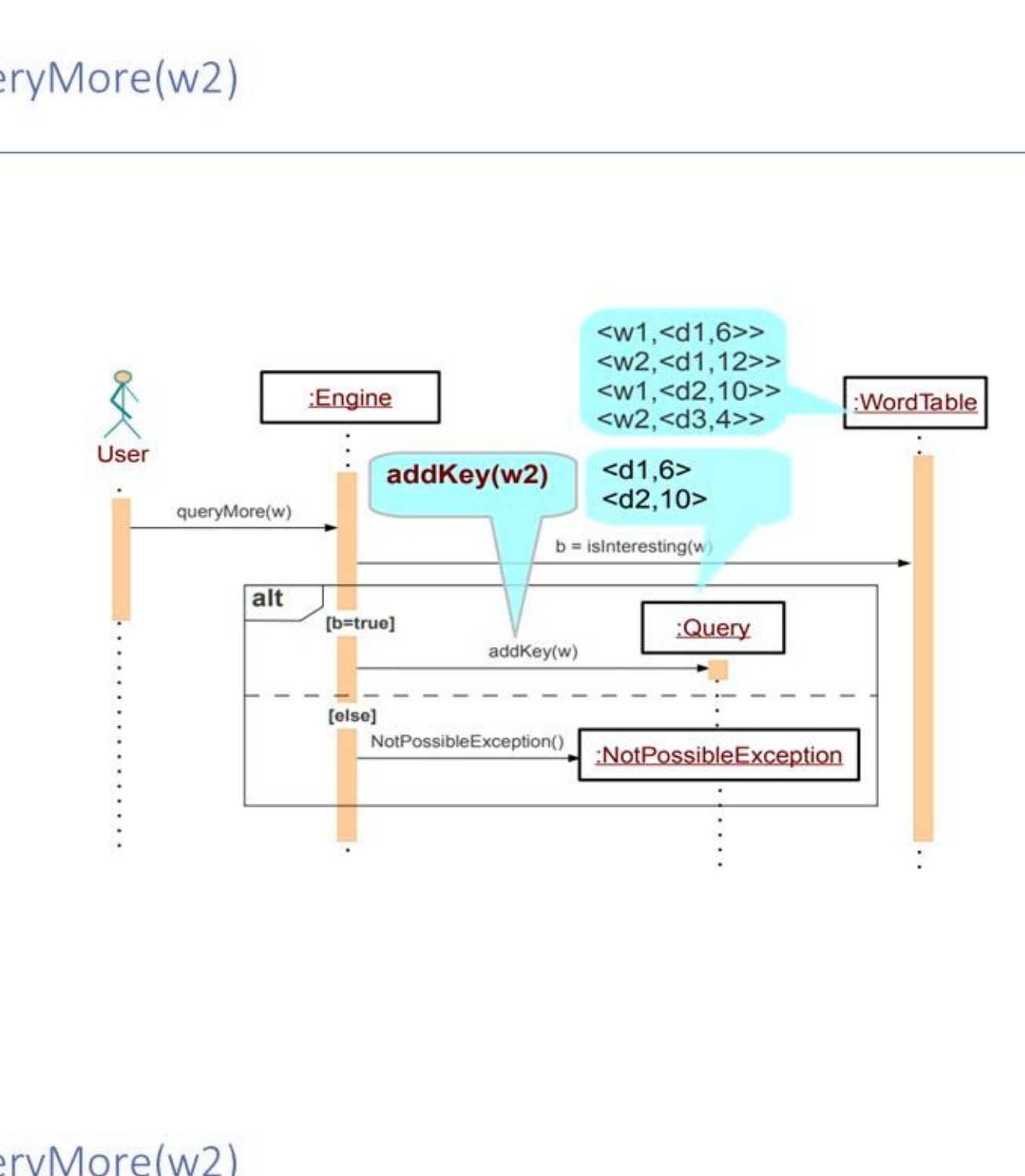
## AddDocs()

- Create 3 Doc objects: d1, d2, d3
- Doc objects are added to TitleTable:
  - <t1,d1>, <t2,d2>, <t3,d3>
- Doc objects are added to WordTable:
  - <w1,<d1,6>>, <w2,<d1,12>>
  - <w1,<d2,10>>
  - <w2,<d3,4>>

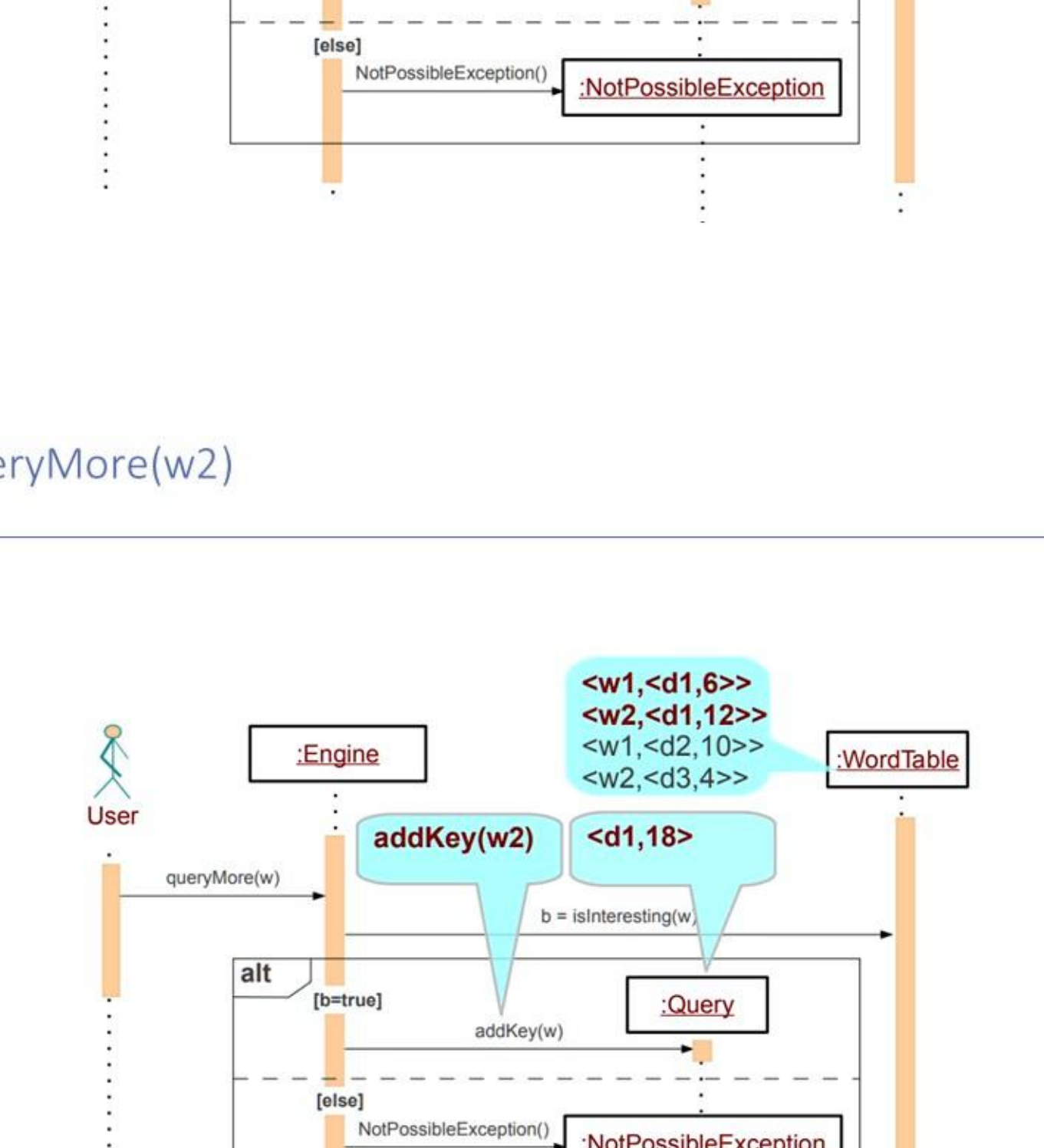
```

<w1,<d1,6>>, <d2,10>>
<w2,<d1,12>>, <d3,4>>
  
```

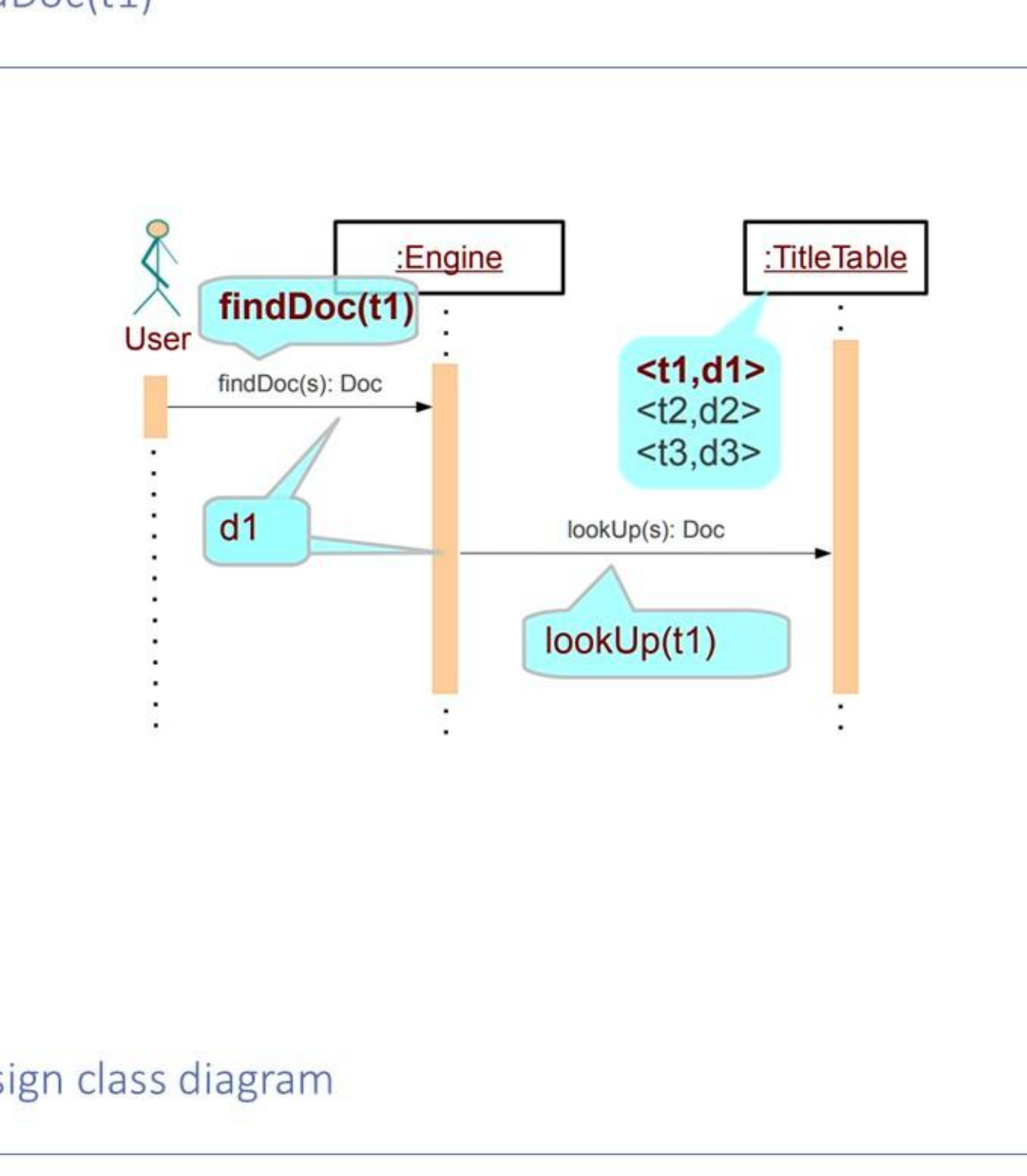
## AddDocs()



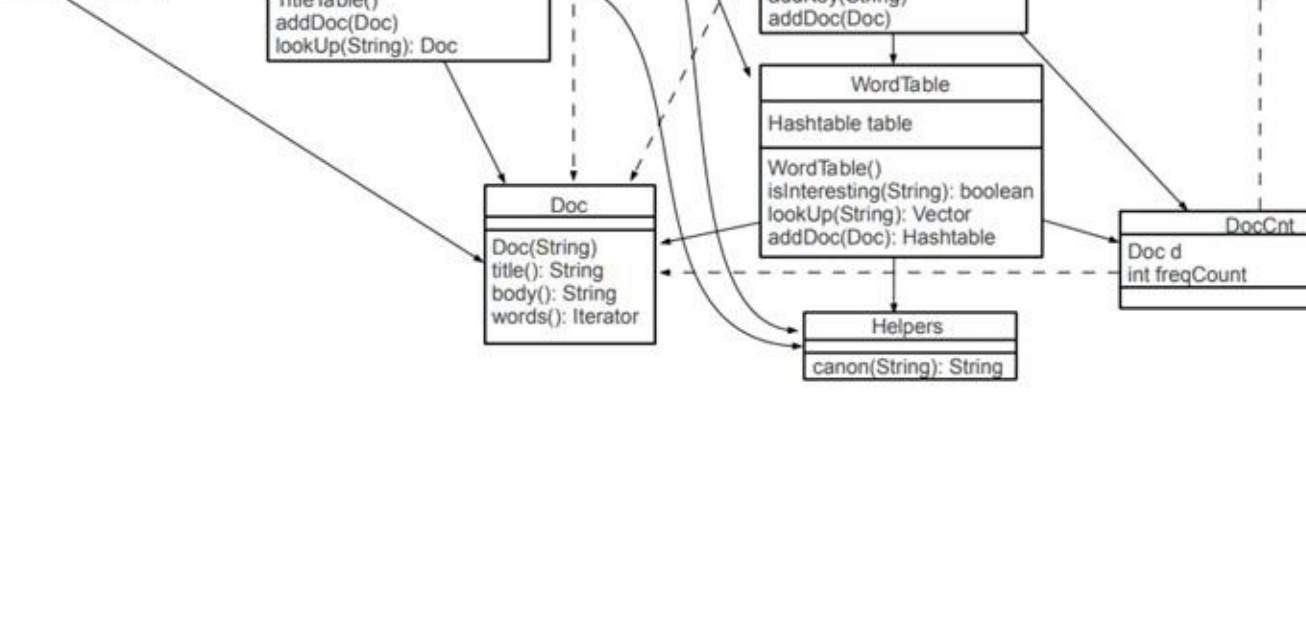
## AddDocs()



## queryFirst(w1)



## queryFirst(w1)



## queryMore(w2)



## queryMore(w2)



## queryMore(w2)



## findDoc(t1)



## Design class diagram

