

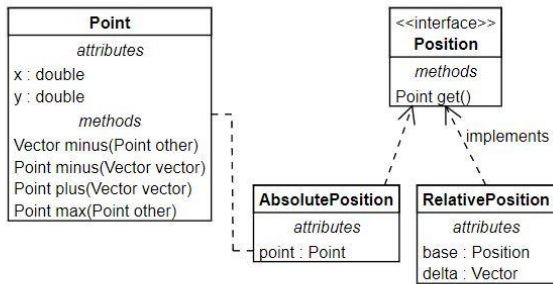
# Prezentácia prototypu

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# UML class diagram

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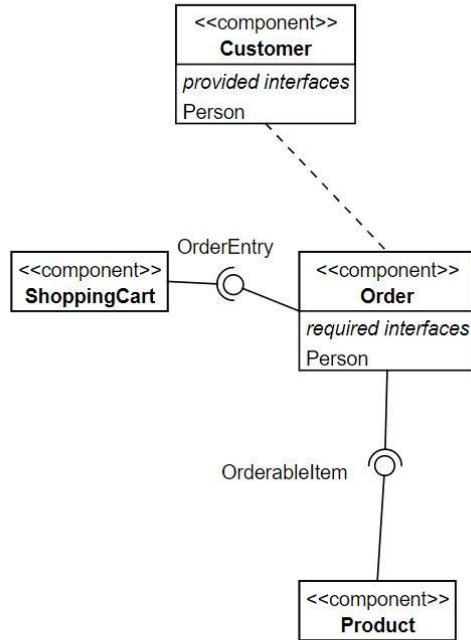
```
1 model 500 300
2 position pc at absolute(50 10);
3 class Point at pc {
4   attr
5   "x : double" "y : double"
6   meth
7   "Vector minus(Point other)" "Point minus(Vector vector)" "Point plus(Vector vector)"
8   "Point max(Point other)"
9 };
10 interface Position at r(pc 280 0){
11 meth "Point get()"
12 };
13 class AbsolutePosition at r(pc 180 130){
14 attr "point : Point"
15 };
16 class RelativePosition at r(pc 300 130){
17 attr "base : Position" "delta : Vector"
18 };
19
20 dependency at along(AbsolutePosition:top 0.9) along(Position:bottom 0.2);
21 dependency d2 at along(RelativePosition:top 0.5) along(Position:bottom 0.5);
22 label implements at along(d2 0.5) -0 1;
23 anchor at along(AbsolutePosition:attr:0:left 0.5)
24 r(l(AbsolutePosition:attr:0:left 0.5) -15 0)
25 l(l(Point:right 0.5) 15 0) l(Point:right 0.5);
```

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# UML component diagram

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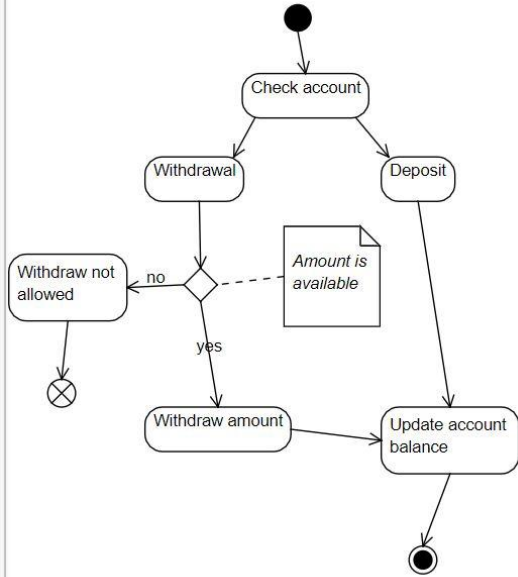
```
1 model 400 600;
2 position pc at absolute(10 200);
3 reset color for components;
4 component ShoppingCart at pc{
5 };
6 component Order at relative(pc 175 0){
7 req
8 Person
9 };
10 component Product at r(pc 175 200){
11 };
12 required interface i1 rot=right at along(ShoppingCart:right 0.5) r(pc 135 20);
13 provided interface i2 at along(Order:left 0.5) r(pc 135 20);
14 label "OrderEntry" at r(pc 130 20) 0.5 2;
15
16 required interface i3 down at along(Order:bottom 0.5) r(pc 227 130);
17 provided interface i4 at along(Product:top 0.5) r(pc 227 130);
18
19 label "OrderableItem" at r(pc 220 125) 1.2 0;
20
21 component cmp "Customer" at r(pc 100 -150){
22 prov
23 Person
24 };
25
26 anchor at along(cmp:bottom 0.5) along(Order:top 0.5);
27
```

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# UML activity diagram

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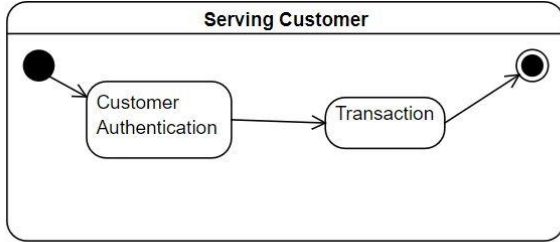
```
1 model 600 600;
2
3 start symbol s at a(200 10);
4
5 activity ca "Check account" at a(170 60);
6
7 activity with "Withdrawal" at a(100 120);
8
9 activity dep "Deposit" at a(270 120);
10
11 activity edge at along(s:bottom 0.5) along(ca:top 0.5);
12 activity edge at along(ca:bottom 0.1) along(with:top 0.9);
13 activity edge at along(ca:bottom 0.9) along(dep:top 0.1);
14
15 decision node dNode at a(140 200);
16 note n at a(200 170) {"Amount is \n available"};
17
18 end symbol e at a(290 400);
19
20 flow final ff at a(30 280);
21
22
23 activity edge at along(with:bottom 0.55) along(dNode:top 0);
24 activity withNA "Withdraw not \n allowed" at a(2 190);
25 activity edge no at along(dNode:left 0) along(withNA:right 0.5);
26
27 activity withA "Withdraw amount" at a(100 300);
```

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# UML state diagram

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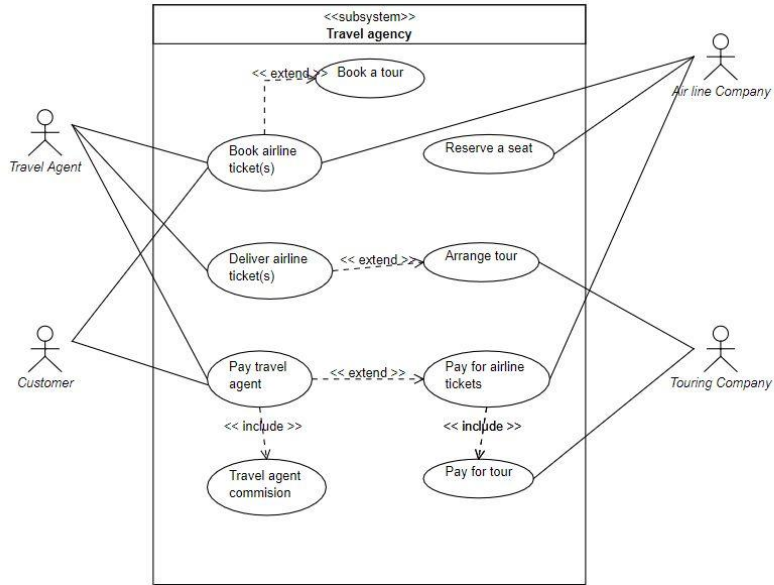
```
1 model 500 500;
2
3 position pc at absolute(10 10);
4
5 state "Serving Customer" at pc 350 150;
6
7 start symbol startSymbol at r(pc 10 30);
8
9 state ca "Customer \n Authentication" at r(pc 50 50);
10 state tr "Transaction" at r(pc 200 60);
11
12 end symbol endSymbol at r(pc 320 30);
13
14 activity edge at angle(startSymbol:45) along(ca:left 0.2);
15 activity edge at along(ca:right 0.5) along(tr:left 0.5);
16 activity edge at along(tr:right 0.5) angle(endSymbol:145);
```

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# UML use case diagram

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```
1 model 800 800;
2
3 subsystem "Travel agency" at a(150, 10) (400 500);
4
5 actor "Travel Agent" at a(25 100);
6 actor "Customer" at a(25, 300);
7 actor "Air line Company" at a(650 30);
8 actor "Touring Company" at a(650 300);
9
10 usecase "Book airline \n ticket(s)" at a(200 130);
11 usecase "Deliver airline \n ticket(s)" at a(200 230);
12 usecase "Pay travel \n agent" at a(200 330);
13 usecase "Travel agent \n commision" at a(200 430);
14 usecase "Book a tour" at a(300 60);
15 usecase "Reserve a seat" at a(400, 130);
16 usecase "Arrange tour" at a(400 230);
17 usecase "Pay for airline \n tickets" at a(400 330);
18 usecase "Pay for tour" at a(400 430);
19
20 extend at along("Book airline \n ticket(s)":top 0.5)
21         r(1("Book airline \n ticket(s)":top 0.5) 0 -50)
22         along("Book a tour":left 0.5);
23
24 include at along("Pay for airline \n tickets":bottom 0.5)
25         along("Pay for tour":top 0.5);
26
27 association of use case to use case
```

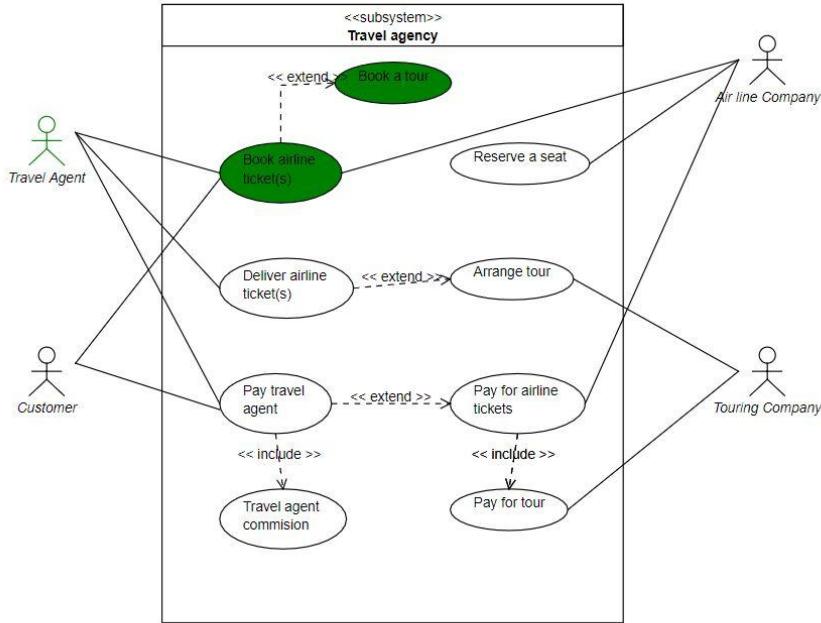
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# Ukážka zafarbenia

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```
1 model 750 800;|
2
3 subsystem "Travel agency" at a(150, 10) (400 500);
4
5 actor "Travel Agent" color=green at a(25 100);
6 actor "Customer" at a(25, 300);
7 actor "Air line Company" at a(650 30);
8 actor "Touring Company" at a(650 300);
9
10 usecase "Book airline \n ticket(s)" color=green at a(200 130);
11 usecase "Deliver airline \n ticket(s)" at a(200 230);
12 usecase "Pay travel \n agent" at a(200 330);
13 usecase "Travel agent \n commision" at a(200 430);
14 usecase "Book a tour" color=green at a(300 60);
15 usecase "Reserve a seat" at a(400, 130);
16 usecase "Arrange tour" at a(400 230);
17 usecase "Pay for airline \n tickets" at a(400 330);
18 usecase "Pay for tour" at a(400 430);
19
20 extend at along("Book airline \n ticket(s)":top 0.5)
21     r(1("Book airline \n ticket(s)":top 0.5) 0 -50)
22     along("Book a tour":left 0.5);
23
24 include at along("Pay for airline \n tickets":bottom 0.5)
25     along("Pay for tour":top 0.5);
26
27 association of none to none at
```

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