

Simple Shop2 Implementation

Summary by: Ben Rockstroh

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Planning with Shop2

Create Domain

```
(defdomain (simple-uav :type pddl-domain)
  ((:action takeoff
    :parameters ( ?aircraft - aircraft ?airport - airport
                  ?region - region)
    :precondition
    (and (landed ?aircraft ?airport)
         (airport-region ?airport ?region))
    :effect
    (and (not (landed ?aircraft ?airport))
         (in ?aircraft ?region))
  ))
```

Create Topology

```
(defparameter *simple-topology*  
  '((region a)  
    (region b)  
    (region c)  
    (airport airport-a)  
    (airport-region airport-a a)  
    (adj-internal a b)  
    (adj-internal b c)))
```

Create A Problem

```
(make-problem 'check-takeoff
              '(,@*simple-topology*
                (aircraft uav)
                (landed uav airport-a)
                '(:ordered (!takeoff uav airport-a a)
                    (!!check (in uav a))))))
```

Find Plans

```
(find-plans 'check-takeoff :verbose :plans)  
(do-problems 'take-fly-land :verbose :plans)
```