application.py
(module to drive the application)

import-data
create_customers
find-customer-by-number
new-month
process-event-history

Call History

incoming-calls: Dict[Tuple(int,int), List[Call]]
outgoing-calls: ——   "   ——

--init--
register-outgoing-call
register-incoming-call
......

Call

src-number : str
dst-number : str
time: datetime
duration: int
src-loc: Tuple[float,float]
dst-loc: Tuple[float,float]
drawables: List[Drawable]
connection: Drawable

--init--
get-bill-date
....

Customer

_id : int
_phone-lines : List[PhoneLine]

--init--
new-month
make-call
receive-call
cancel-phone-line
......

PhoneLine

number : str
contract : Contract
bills : Dict[Tuple(int,int), Bill]
callhistory : Call History

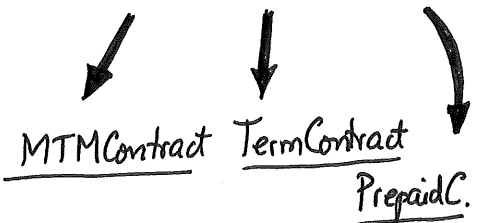--init--
new-month
make-call
receive-call
cancel-line
......

Contract

start : datetime.datetime
bill : Optional [Bill]

--init--
new-month
bill-call
cancel-contract

MTMContract   TermContract
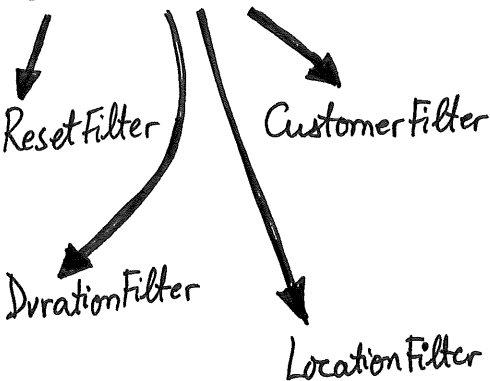PrepaidC.

Filter

--init--
apply
--str--

ResetFilter   CustomerFilter
DurationFilter
LocationFilter

Bill

billed-min : int
free-min : int
min-rate: float
fixed-cost: float
type : str (contract type!)

--init--
set-rates
add-fixed-cost
add-billed-minutes
add-free-minutes
get-cost
get-summary