

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

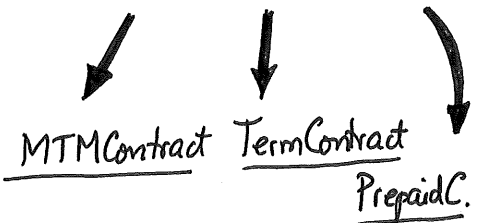
number: str
contract: Contract
bills: Dict[Tuple(int,int), Bill]
callhistory: Call History

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

Contract

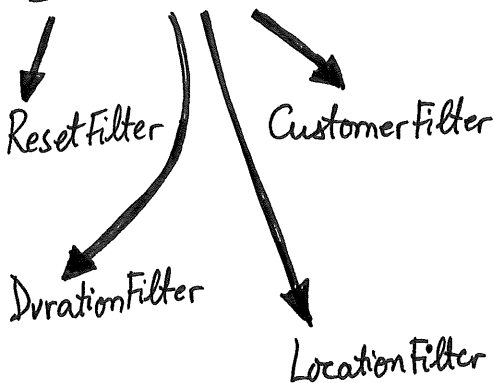
start: datetime.datetime
bill: Optional[Bill]

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



Filter

--init--
apply
--str--



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