

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

Assignment Project Exam Help

<https://powcoder.com>

Add WeChat powcoder

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