Psychological System Class Diagram

<<interface>> Session
+ get_Date():LIST<DATE>
+ get_Time():LIST<TIME>
+ get_Clinet():CLIENT
+ get_Psychologist():PSYCHOLOGIST
+ get_Report():REPORT
+ get_Cost():FLOAT
+ get_session_paid_Type():STRING

<<interface>> Report
+ get_ID():INT
+ get_Title():STRING
+ get_Date():DATE
+ get_Time():TIME
+ get_Body():STRING
+ get_Footer():STRING
+get_Sgnature():STRING

<<interface>> Course
+ get_ID():INT
+ get_Nae():STRING
+ get_Cost():FLOAT
+ get_Prerequests():LIST<COURSE>
+ get_Number_of_Student:INT
+ get_Description():STRING
+ get_Number_of_hours():INT

Session
- Start_Date:DATE
- End_Date:DATE
- Start_Hour:TIME
- End_Hour:TIME
- Client:CLIENT
- Psychologist:PSYCHOLOGIST
- class:CLASS
- cost:FLOAT
- report:REPORT
- session_paid_Type:STRING

+ set_Date(First:DATE, End:DATE)
+ set_Time(Start:TIME, End:TIME)
+ set_Cost(Cost:FLOAT)
+ set_session_paid_Type(Type:STRING)
+ get_Date():LIST<DATE>
+ get_Time():LIST<TIME>
+ get_Clinet():CLIENT
+ get_Psychologist():PSYCHOLOGIST
+ get_Report():REPORT
+ get_Cost():FLOAT
+ get_session_paid_Type():STRING

Client
- First_Session_Date:DATE = 1/1/2000
- Total_Session:INT = 0
- Cridet_card_Number:STRING
- Wallet:FLOAT

+ set_First_session(F_session:DATE)
+ set_Number_session(Session:INT)
+ set_Cridet_Card_Number(Number:String)
+ set_Wallet(Wallet:FLOAT)
+ get_First_session():DATE
+ get_Number_session():INT
+ set_Cridet_Card_Number():String
+ get_Wallet():FLOAT
+ request_Discount()

User
- ID:INT
- SSN:LONG
- First_Name:STRING
- Last_Name:STRING
- Email:STRING=example@gmail.com
- Password:STRING=Xxxx123/*+
- Sex:STRING=Maile
- Birthdate:Date=1/1/2000
- User_Type:STRING=client
- Address:STRING=123, El-Tahreer, cairo
- Phone:LIST<LONG>== 0000000000, 00000000000

+ set_SSN(SSN:LONG)
+ set_First_Name(F_Name:STRING)
+ set_Last_Name(L_Name:STRING)
+ set_Email(Email:STRING)
+ set_User_Type(Type:STRING)
+ set_Password(Pass:STRING)
+ set_Sex(SEX:STRING)
+ set_Birthdate(Birth:DATE)
+ set_Address(Assress:STRING)
+ set_Phone_Number(Phone:LIST<LONG>)
+ get_ID():INT
+ get_SSN():LONG
+ get_First_Name():STRING
+ get_Last_Name():STRING
+ get_Email():STRING
+ get_Password():STRING
+ get_Sex():STRING
+ get_User_Type():STRING
+ get_Birthdate():DATE
+ get_Address():STRING
+ get_Phone_Number():LIST<LONG>
+ Login(Email:STRING, Password:STRING):CHAR
+ Logout():CHAR
+ Edit_Info():CHAR
+ reserve_Session(Date:DATE, HOUR:TIME):CHAR
+ Cancel_Session():CHAR
+ Edit_reservation():CHAR
+ enroll_course(Date_DATE, Hour:TIME, Course:STRING, Lecturer_Name:STRING):CHAR
+ Edit_Resrvation_course():CHAR
+ Cancel_resrvation_course():CHAR
+ View_lsit_of_resrvation()
+ View_List_Of_Notification()
+ *view_Time_Tables()*:
+ *Add()*

Department
- ID:INT
- Name:STRING
- Total_number_of_Employee:INT
- Recurring_Costs:FLOAT
- Description:STRING

+ set_Name(Name:STRING)
+ set_Total_Number_Of_Employee(Number:INT)
+ set_Recurring_Costs(Cost:FLOAT)
+ set_Description(description:STRING)
+ get_ID():INT
+ get_Name():STRING
+ get_Total_Number_Of_Employee():INT
+ get_Recurring_Costs():FLOAT
+ get_Description():STRING

Report
- ID :INT
- Title:STRIG
- Date:DATE
- Time:TIME
- Body:STRING
- Fotoer:STRING
- Signature:STRING

+ set_Title(Title:STRING)
+ set_Date(Date:DATE)
+ set_Time(Time:TIME)
+ set_Body(Body:STRING)
+ set_Footer(Footer:STRING)
+ set_Signature(Signature:STRING)
+ get_ID():INT
+ get_Name():STRING
+ get_Title():STRING
+ get_Date():DATE
+ get_Time():TIME
+ get_Body():STRING
+ get_Footer():STRING
+get_Sgnature():STRING

Course
- ID:INT
- Name:STRING
- Cost:FLOAT
- Pre_requests:LIST<STRING>
- Number_of_student:INT
- Description_STRING
- Number_of_hours:INT

+ set_Name(Name:STRING)
+ set_Cost(Cost:FLOAT)
+ set_Nember_of_Student(Number:INT)
+ set_Description(Description:STRING)
+ set_Number_of_hours(Number:INT)
+ get_ID():INT
+ get_Name():STRING
+ get_Cost():FLOAT
+ get_Prerequists():LIST<COURSE>
+ get_Nember_of_Student:INT
+ get_Description():STRING
+ get_Number_of_hours():INT

Employee
- Main_Salary :FLOAT = 1500.00
- Bounce:FLOAT = 0.0
- Over_time:FLOAT = 0.0
- penalties:FLOAT = 0.0
- Position:STRING
- Department:STRING

+ set_Main_Salary(Salary:FLOAT)
+ set_Bounce(bounce:FLOAT)
+ set_Over_Time(Over:FLOAT)
+ set_Penalities(penality:FLOAT)
+ set_Position(Position:STRING)
+ set_Department(Department:STRING)
+ get_main_Salary():FLOAT
+ get_Bounce():FLOAT
+ get_Over_time():FLOAT
+ get_Penalities():FLOAT
+ get_Position():STRING
+ get_Department():STRING
+ request_Casual_vacation()
+ *Edit()*
+ Upload_CV()
+ *create_Templote_Report()*
+ *Edit_Templelete()*
+ Search_Psychopath(ID:INT||Name:STRING):PSYCHOPATH
+ *write_Report()*
+ *search()*

<<interface>> CV
+ get_ID():INT
+ get_Graduation_year():DATE
+ get_Qualification():LIST<STRING>
+ get_Specialization():STRING
+ get_Experince_year():FLOAT

Place
- ID:INT
- Name:STRING
- color:STRING
- Capacity:INT

+ set_Name(Name:STRING)
+ set_Color(COLOR:STRING)
+ set_Capacity(Capacety:INT)
+ get_ID():INT
+ get_Name():STRING
+ get_Color():STRING
+ get_Capacety():INT

Psychopath
- Name:STREING
- Father_Name:STRING
- Mother_Name:STRING
- Birthdate:DATE
- Social_status:HASHMAP<STRING, STRING> = <Marid, Maried>
- Work:HASHMAP<STRING, STRING> = <Engineer, Doctor>
- Effects:STRNG

+ set_Name(Name:STRING)
+ set_Mother_Name(Name:STRING)
+ set_Father_Name(Name:STRING)
+ set_Birthdate(Birth:DATE)
+ set_Socail(F_Social:STRING, M_social:STRING)
+ set_Work(F_Work, M_Work)
+ set_Effics(Effics:STRING)
+ set_Name():STRING
+ get_Mother_Name():STRING
+ get_Father_Name():STRING
+ get_Birthdate():DATE
+ get_Socail():HASHMAP<STRING, STRING>
+ get_Work():HASHMAP<STRING, STRING>
+ get_Effics():STRING

Receptionist
- Total_Income:FLOAT
- Total_Outcome:FLOAT
- Total_Revnue:FLAOT

+ set_Total_Income(income:FLOAT)
+ set_Total_outcome(outcome:FLOAT)
+ get_Total_Income():FLOAT
+ get_Total_Outcome():FLOAT
+ get_Total_revnue():FLOAT
+ Add_User()
+ Deactivate_User()
+ Create_Event()
+ Cancel_Event()
+ Send_notification()
+ *write_report()*
+ *Edit_report()*

Manager
+ View_Accounting_Reports():REPORT
+ *Search_report():REPORT*
+ View_Desccount_Requests():LIST
+ Send_Notification()
+ create_Department()
+ remove_Department()
+ Add_New_Manager()
+ *Write_report()*
+ *view_CV():CV*
+ *search_CV():CV*

Psychologist
+ *Write_Psychopath_report()*
+ Edit_Psycopath_report():REPORT
+ View_List_Of_all_psychopaths():LIST
+ Add_course()
+ *Edit_course()*
+ Remove_Course()
+ request_Event()

CV
- ID:INT
- Graduation_year:DATE
- Qualification:LIST<STRING>
- Specialization:STRING
- Experinc_year:FLOAT

+ set_Graduation_year(Year:DATE)
+ set_Qualifiction(Qualification:LIST<STRING>)
+ set_Specialization(Specialization:STRING)
+ set_Experince_year(Number:FLOAT)
+ get_ID():INT
+ get_Graduation_year():DATE
+ get_Qualifiction():LIST<STRING>
+ get_Specialization():STRING
+ get_Experince_year():FLOAT