## Assignment-05 (Group)

\* Draw class diagrams for your project.

## Grand Wempers:

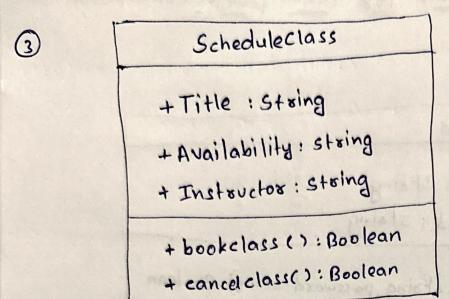
- (i) Prajual Garla
- (ii) Guru saran Reddy Busireddy
- (in) Mahesh Peta
- (iv) Hazi Naga Venkata Sai Posani

*(	lass diagrams for term project:
	palate i still 4
0	Uses parts stillastions.
	temail: string the str
	+login (email: string, password: string): Boolean
•	Associating and super source source and a
	Precondition: Credentials must be valid.
	Postcondition: logged in it successful
	is conceled
(2)	Membership Recondition: user must
	tupe: string be having an active

+ type: string
+ time: int

+ renew(): Boolean
+ cancel (1: Boolean

be having an active membership currently. Postcondition: successfully renewed or campled successfully



Precondition: user must have membership to book

a class.

Postcondition: class booked successfully (00) class

is canceled

Payment

+ Payment Method: String

+ Amount: Double

+ Payment Process (user: int, amount: double): Boolean

Postcondition: Correct Payment details reaulted.
Postcondition: Successfully processed payment

Notification + sms : string | 0 22015 8061 80215 + sendsms (user: string; message: string): void Precondition: Relavent message to valid uses. Postcondition: Sent Notification. or renew infombership. (iii) scheduleclass: Scheduleclass handles scheduling on no so Manages what & philipoli + Manager ID: string on principal + Password + string + schedule Update (): Boolean + Remainders (user: string) : Void + confirmPayments(): Boolean. IA oilput pribes me 20 26920 of passam Precondition: valid login credentials reavised. Postcondition: Successfully updated schedule, sent Remainder & confirmed Payment successfully.

\* Additional description of each classif

(i) User - User class allow user to login using email and password. User class mainly handles user authentication to log in.

(ii) Membership: - Membership class manages subscription type for users. User can be able to cand

(iii) Schedule Class: - Schedule Class handles scheduling the gym classes based on its type, ava-

ilability & instructor. User can manager booking or cancelling the class.

(iv) Payment: It maintains payment process for class bookings and membership renewal. User can choose payment method and amount according

(v) Notification: This class is responsible for sending messages to usess as sms using Twilio API.

Used can receive remainers, class schedule etc.

(vi) Manager - In this class, manager can login using valid credentials and can be able to overlow and manages all activities such as sending remainders, updating classes etc.

* Object diagram for each class:
(i) User class:
User : Virat Kohli
email : "visatkohli18@gmail.com" :
Password: "cricketking"
+login (email: string, password: string): boolean
modification class:
Cillas Massagamb
Membership: Premium : nottosiquous
Eype: "Annual class scals (milago": sms
Time: 12 biou: () emabries 4
+ renew(): Boolean
+cancel (): Boolean
(iii) Schedule class :- Vosol soponom
Schedule Class: Cyching Las paner
Eitle: "Indoor cycling Boost"
Availability: "open "bons
Instructor: "Dhoni"
+bookelass (4) ; Boolean
+ cancel Classe) : Boolean

Payment: Place order

Payment Method: "credit card"

Amount : 70.00 home Balilled hoir's listing

+ Payment Process (usex: string, amount idouble): boolean

## (v) Notification class:

Notification: Message

sms: "cycling class scheduled at 7:00 Am."

+ sendsms () : void

\*conceles Boolea

(vi) Manager class:-

Manages: Tarak

Manages ID: "Tarak@999"

Password: "manofmasses

+ scheduleupdate (usex: string, time: double): books

+ Remainders (user: string) : void

+ confirmpayments (user: string, payment: void): boolen

+ consolicion ( Bealean