

## Spring 2022: Object Oriented Programming Project Evaluation

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### Evaluation Rules:

Assign yourself full marks if you claim a complete implementation of the given Question.

Assign yourself zero marks if you have missed the implementation of the given Question.

### Registration/Signup

10 Marks

Valid CNIC or email, Password validations, re-enter the password, successfully identified Registration data members signup details, <b>data operation from files</b>	6 / 6
Successfully implemented class "User" and inheritance relation with the doctor, admin patient	4 / 4

### Login/Logout

10 Marks

Login for (admin, patient, doctor), log in with username and password, mention wrong credentials, Logout, <b>data operation from files</b>	5 / 5
Polymorphically showed the distinct views for each user	0 / 5

### Menu

20 Marks

(Admin, doctor, patient) separately to navigate the full system, menu for the subsequent process, different menu for the different users, distinct views	10 / 10
Aesthetic sense (design), usability, user-friendly, attractive, interactive, your program should never exit, always display a menu to the user	10 / 10

### Book Appointment

40 Marks

Category wise searching, location wise searching, doctor/ clinic wise searching	10 / 10
Available slots, booked slots, service charges details, display a list of day and hours slots, cannot book 2 appointments, in-person and video consultation appointments	8 / 10
Appointments and their status in doctor's and patient's profile, appointment cancellation	10 / 10
Polymorphically implemented doctors and their specialties. Aggregation/Composition, Virtual Inheritance, Runtime Polymorphism - for calling all views, dynamic arrays allocation and deallocation, Parameterized/copy constructor in each class, <b>data operation from files</b>	10 / 10

### Feedback

20 Marks

Calculating feedback due time from date class, showing menu to patient for feedback	4 / 8
Write a review + give a rating (out of 5 stars), rating must reflect on doctor's profile, average of all the ratings, <b>data operation from files</b>	10 / 12
A reply on the review of patients from the management (Bonus)	0 / 5

### Payment

20 Marks

Transaction from the doctor's account to the patient's account, calculate charges for in-person and video consultation	3 / 5
Payment details for booked appointment, Appointment cancellation, refund must be done, refund calculation via policy	10 / 10
Polymorphically implemented E-Gateway for the transaction JazzCash, EasyPaisa, PayPak, UnionPay or Bank Transfer, <b>data operation from files</b>	5 / 5

### Bonus

15 Marks

OLADOC is populated with sufficient data for demo,	0 / 5
UML class diagram, mapping with the class diagram	0 / 5
Coding convention (commenting, no global variables, use of const and static with functions, naming convention, separate files, error handling with appropriate prompts)	5 / 5
Plagiarism deduction (will most probably result in F Grade)	-160
Without OOP principles (will most probably be zero marks)	-120

**Total (120) + Bonus(20)**

Evaluator's Name:	
Evaluator's Comments:	