



Independent University, Bangladesh

Assignment 3

Course Code: CSE307

Section:01

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Submitted To:

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1. Entity Relationship Diagram

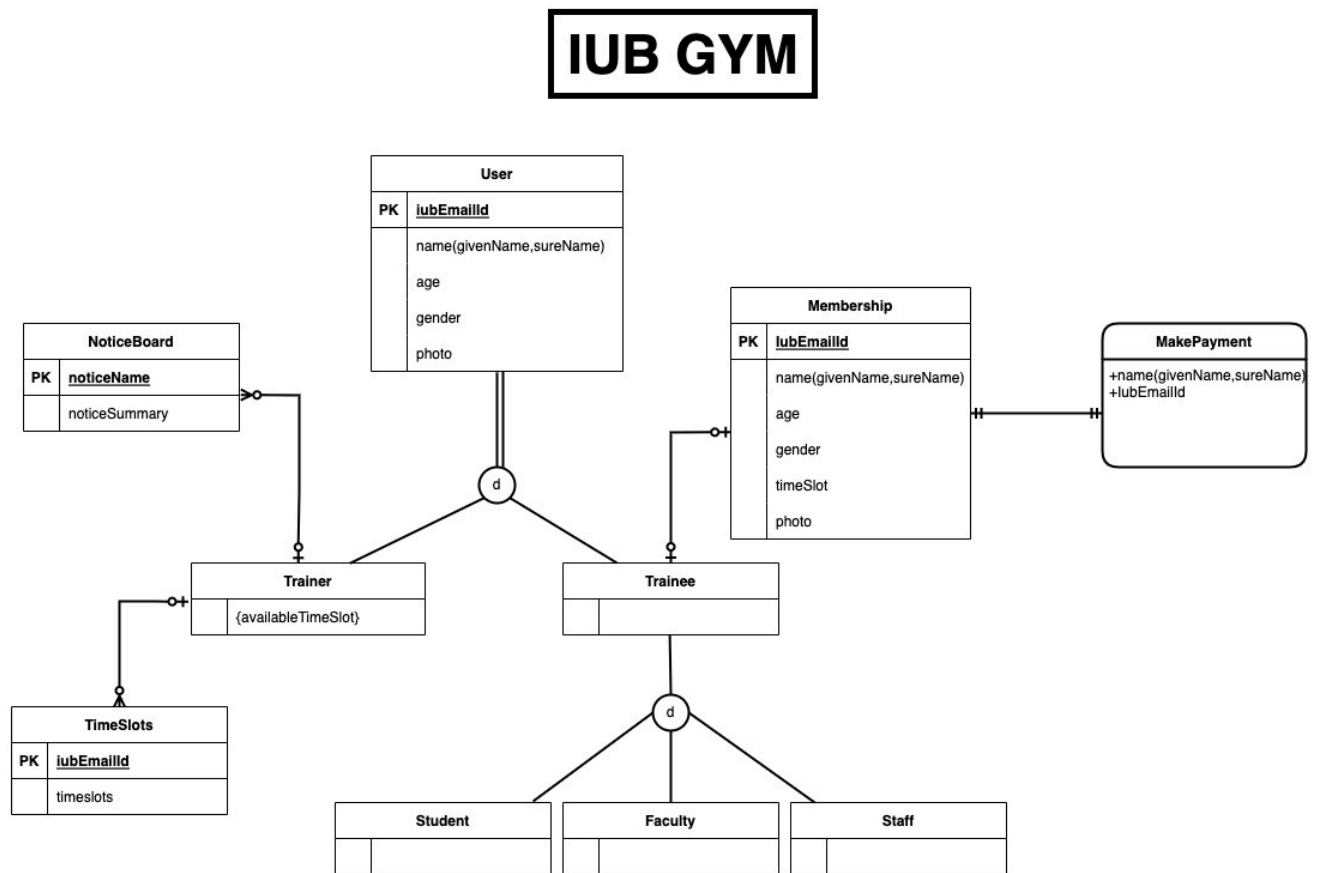


Fig: ERD of IUB GYM

2. Logical Data Flow diagram

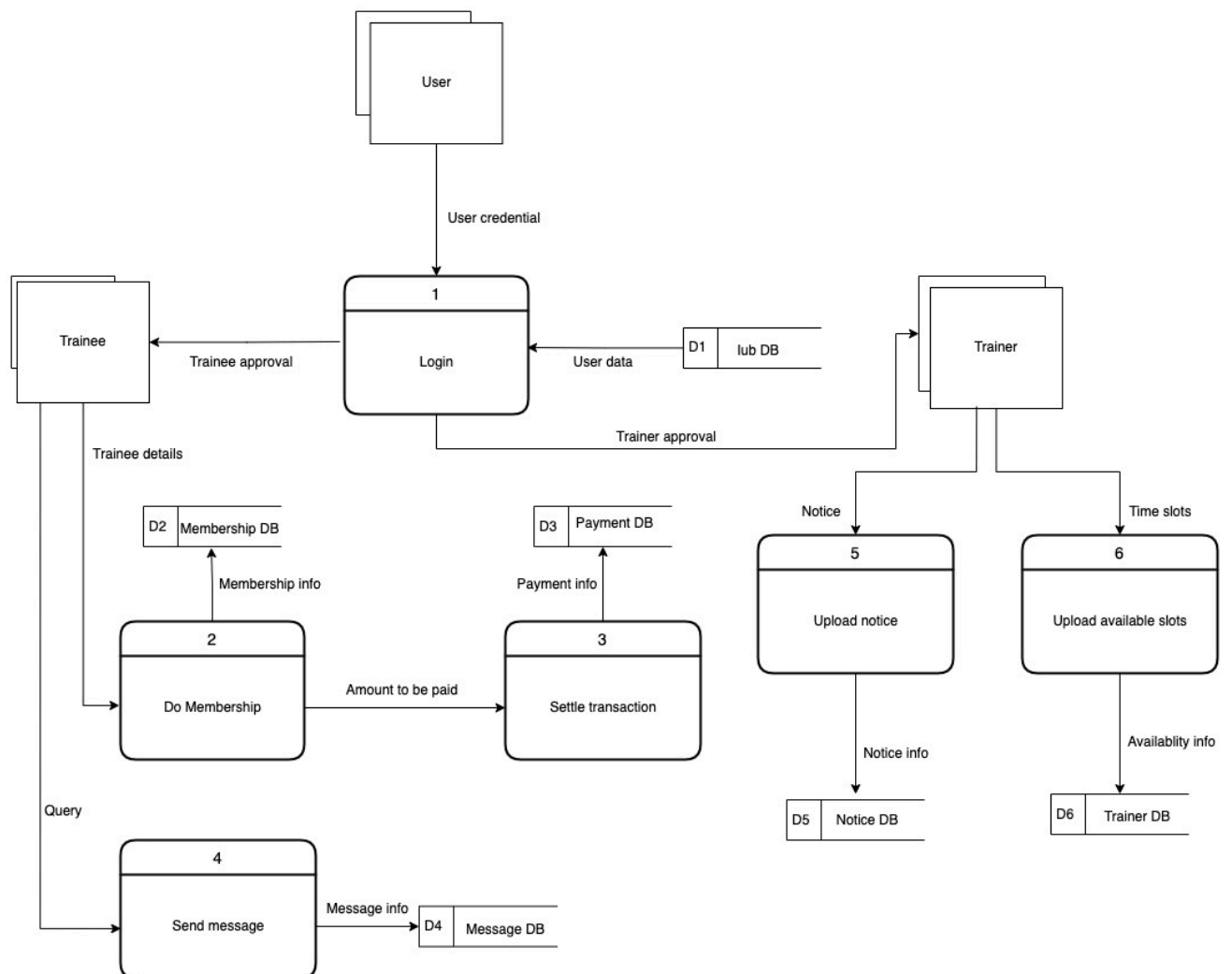


Fig-0: Logical data flow diagram of IUB GYM

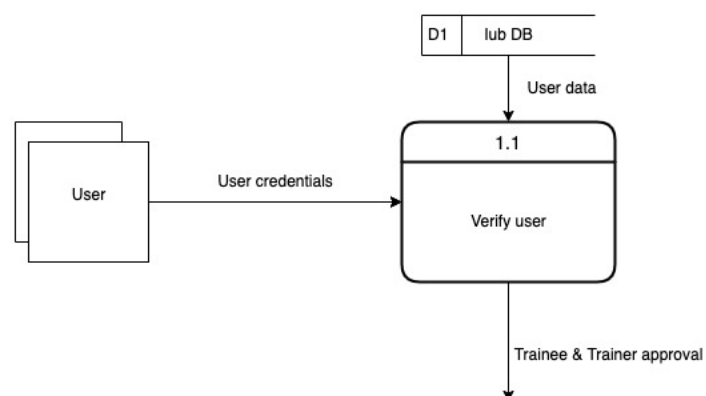


Fig-1: Logical data flow diagram of Login

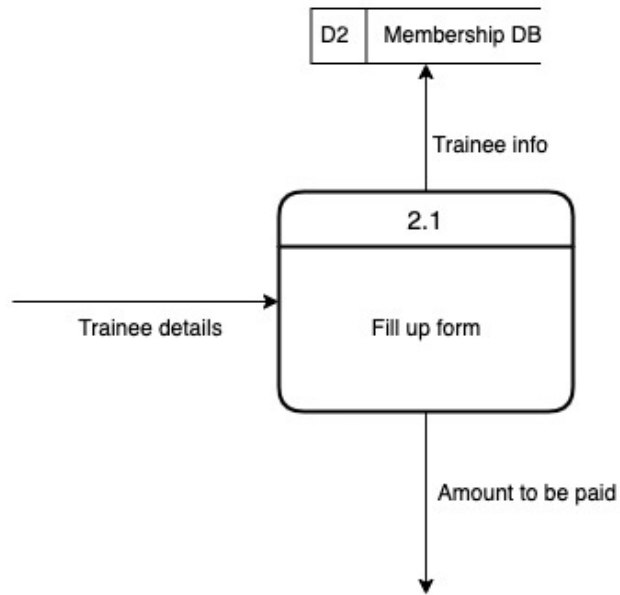


Fig-2: Logical data flow diagram of Do Membership

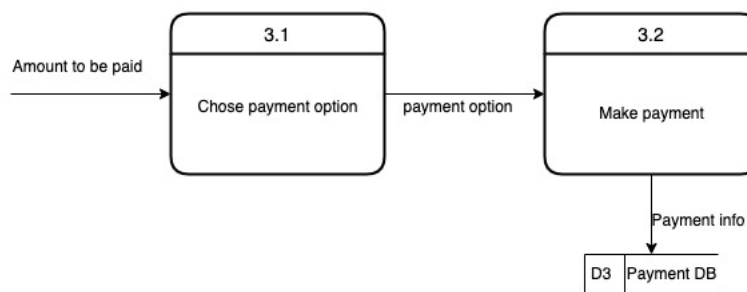


Fig-3: Logical data flow diagram of Settle transaction

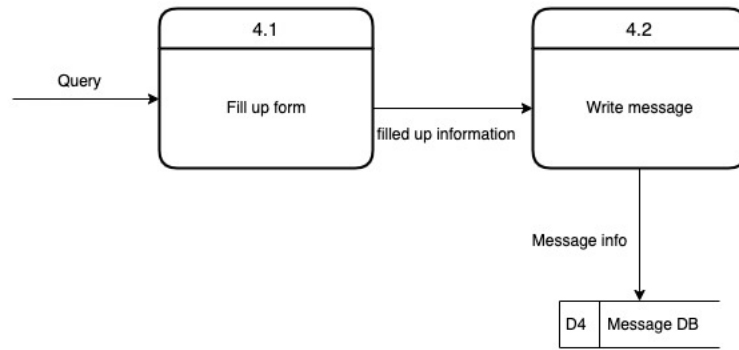


Fig-4: Logical data flow diagram of Send message

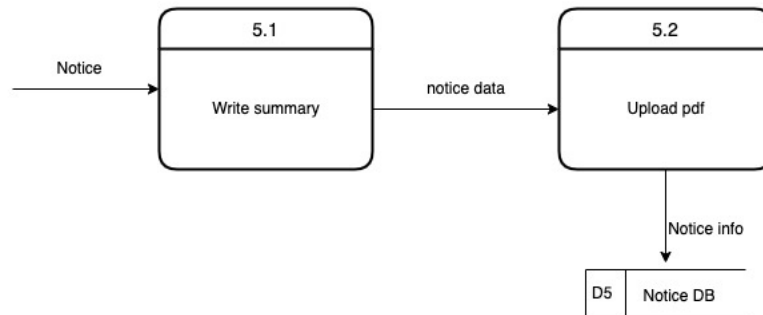


Fig-5: Logical data flow diagram of Upload notice

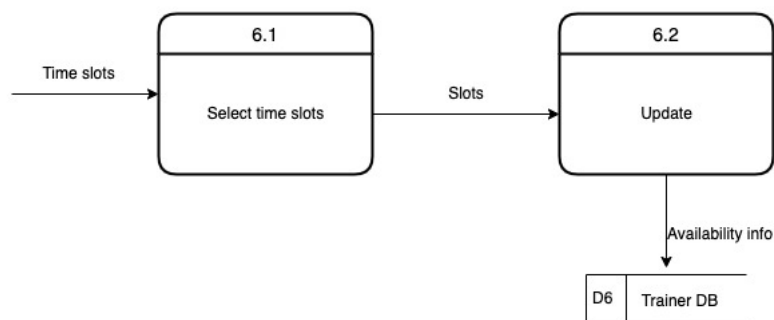


Fig-6: Logical data flow diagram of Upload available slots

3. Physical Data Flow Diagram

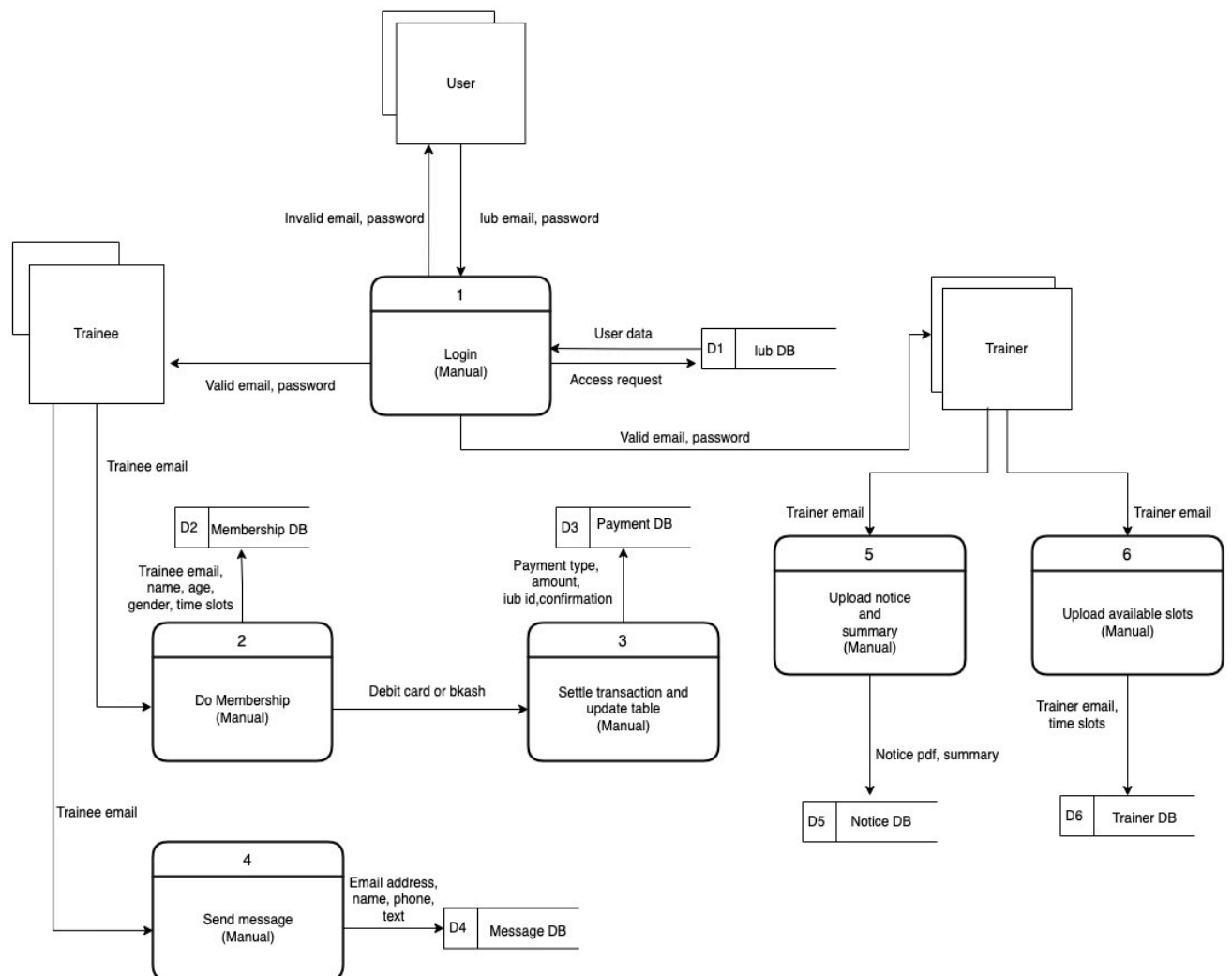


Fig-0: Physical data flow diagram of IUB GYM

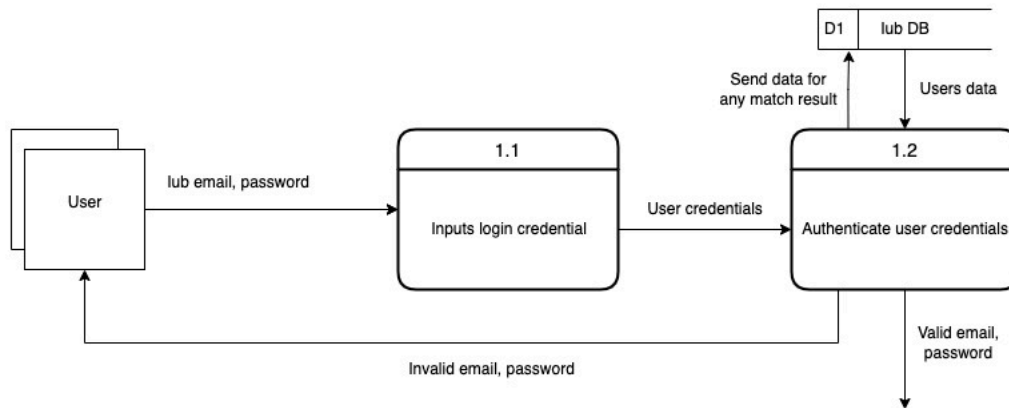


Fig-1: Physical data flow diagram of Login

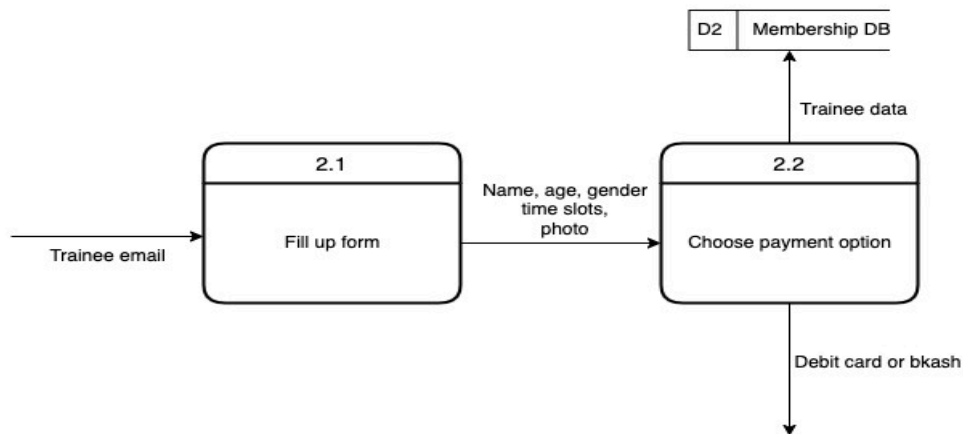


Fig-2: Physical data flow diagram of Do Membership process

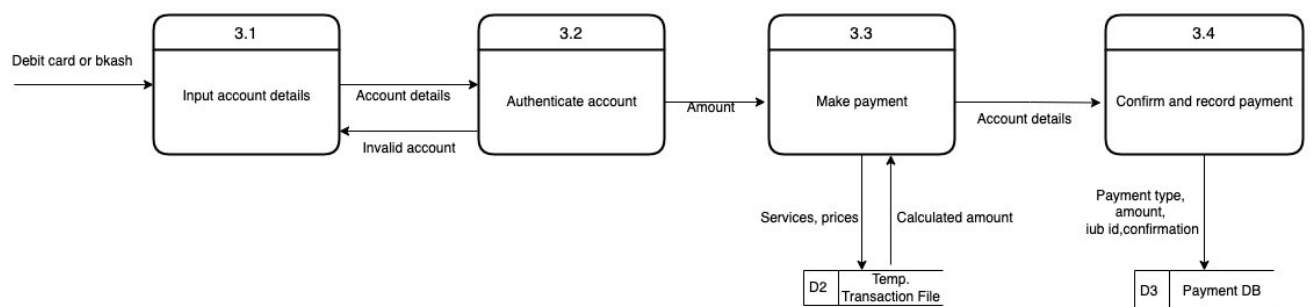


Fig-3: Physical data flow diagram of Settle transaction and update table

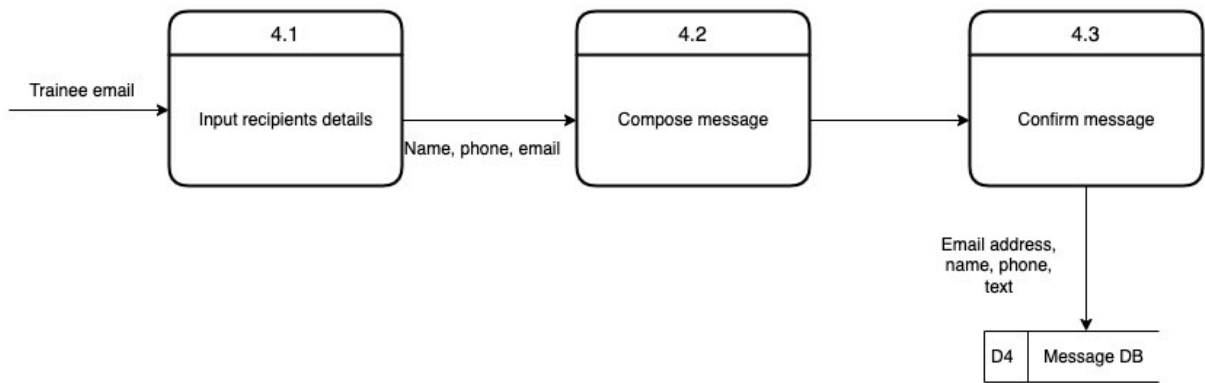


Fig-4: Physical data flow diagram of Send message

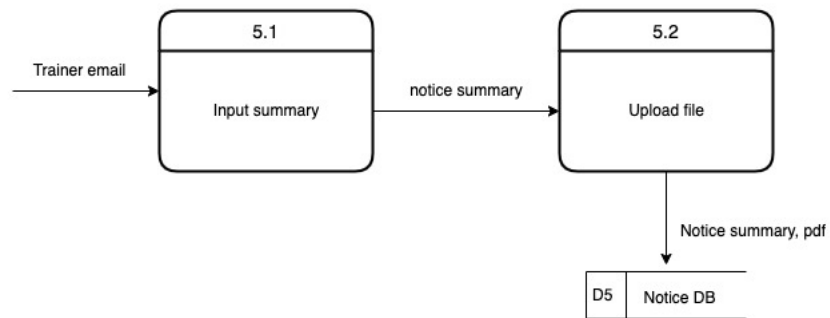


Fig-5: Physical data flow diagram of Upload notice and summary

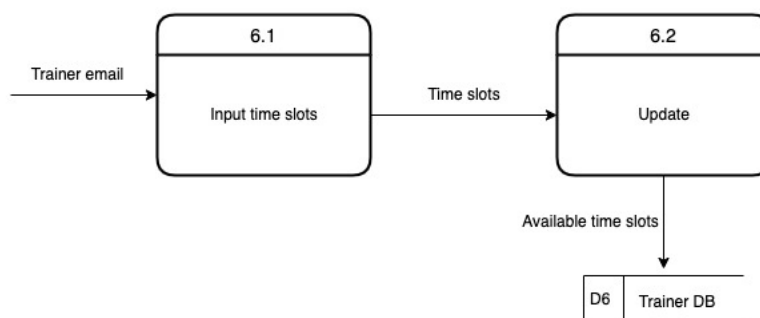


Fig-6: Physical data flow diagram of Upload available slots

4. Activity Diagram

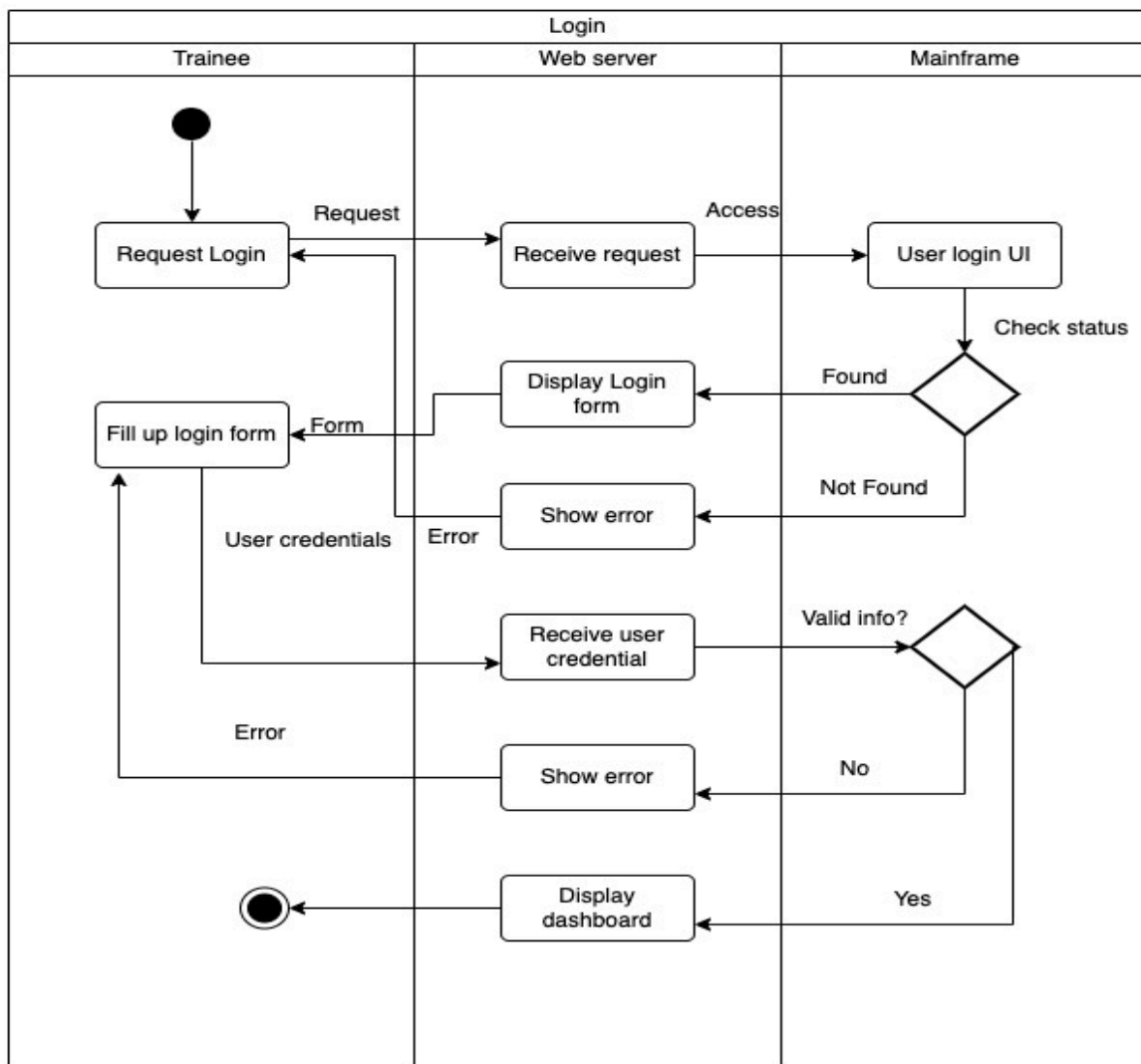


Fig-1: Activity diagram of Login

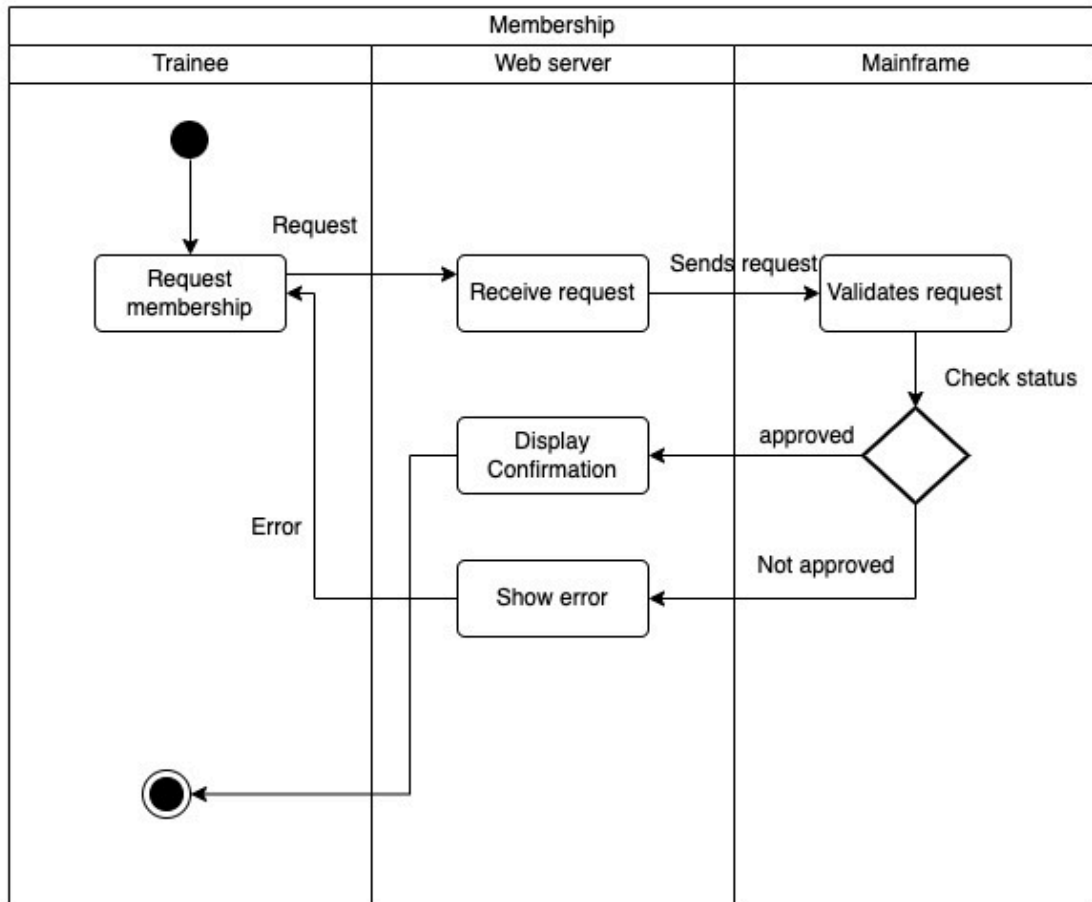


Fig-2: Activity diagram of Membership

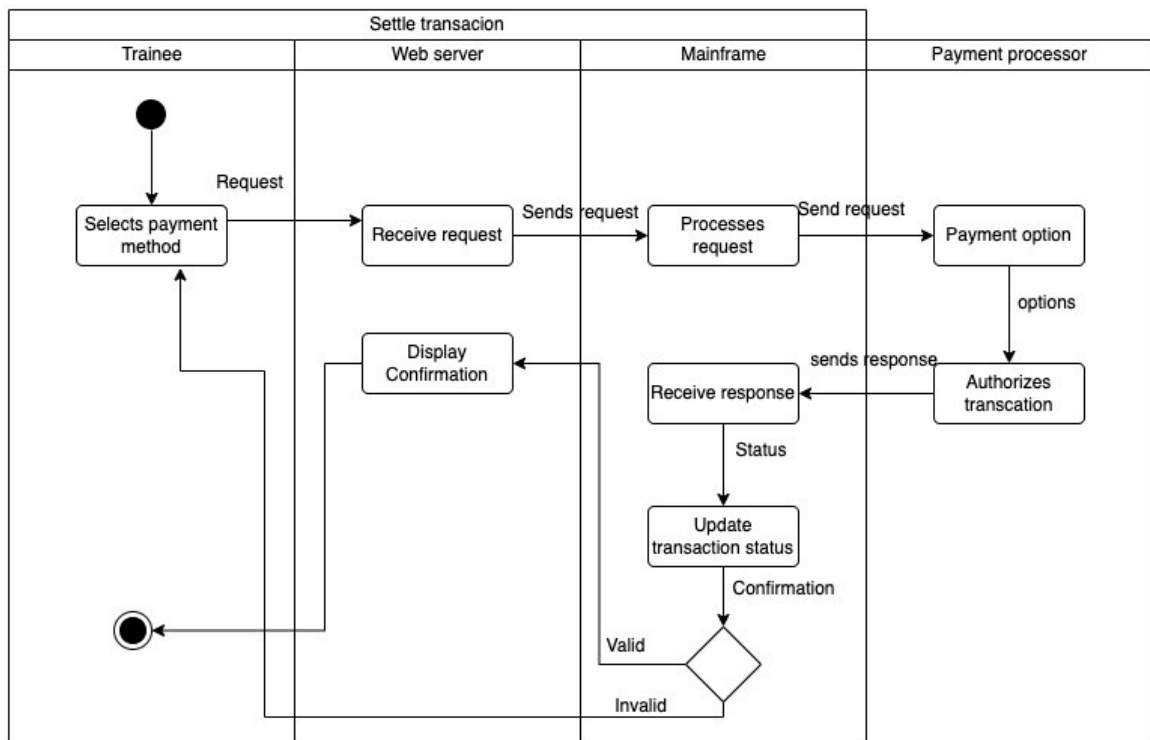


Fig-3: Activity diagram of Settle transaction

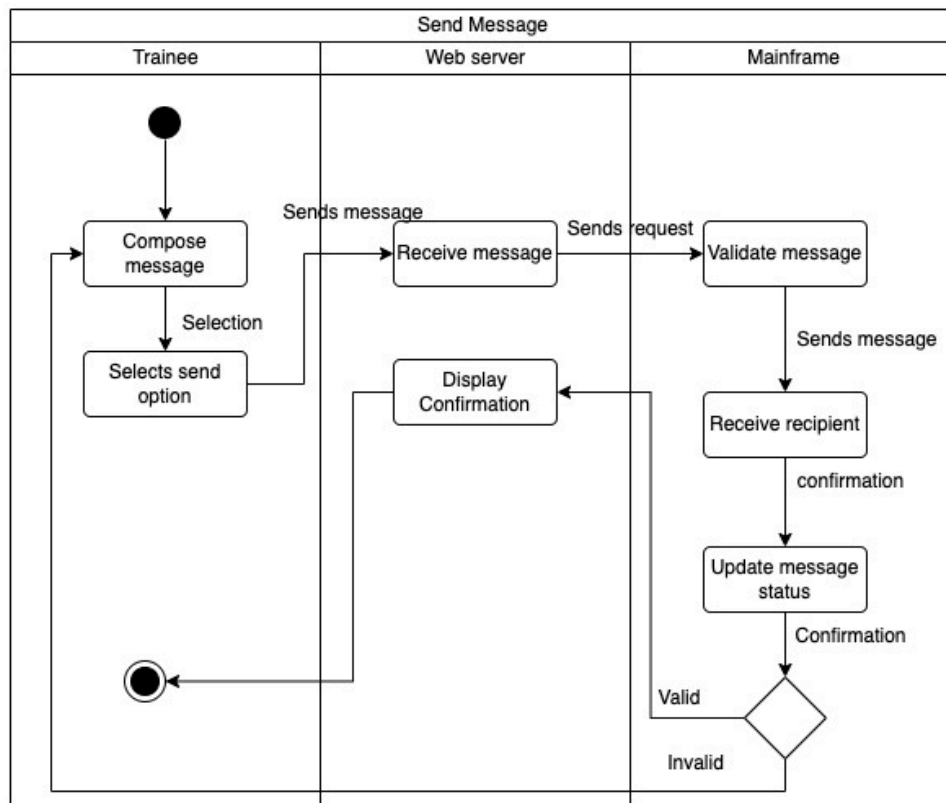


Fig-4: Activity diagram of Send message

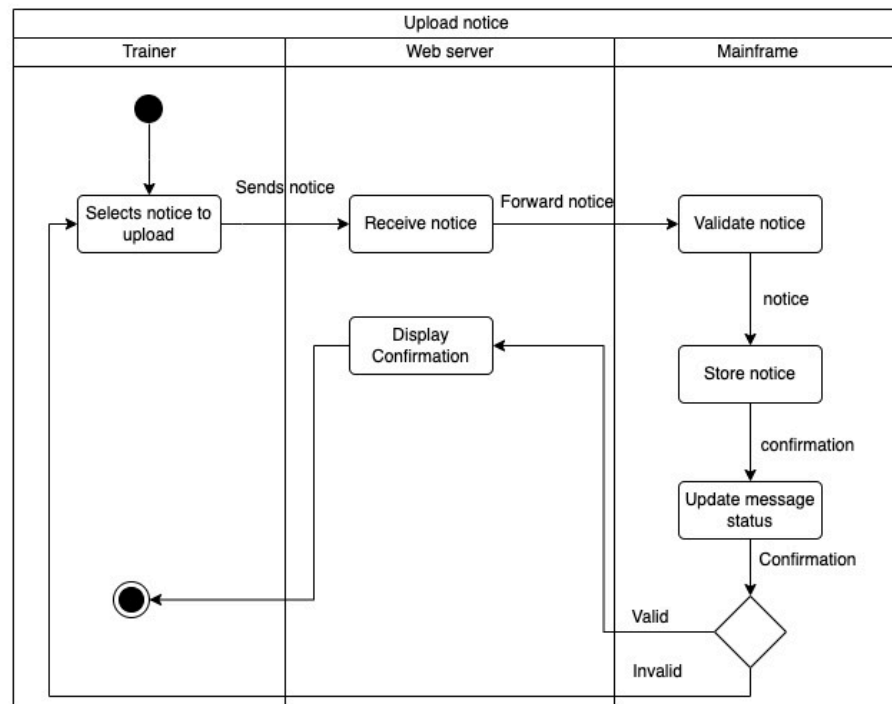


Fig-5: Activity diagram of Upload notice

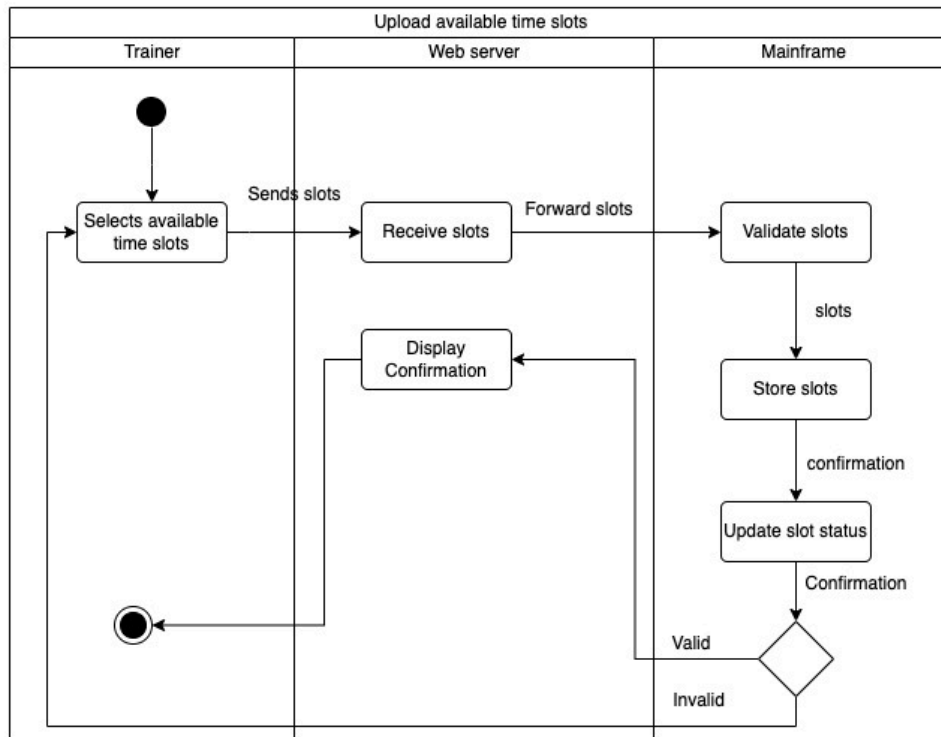
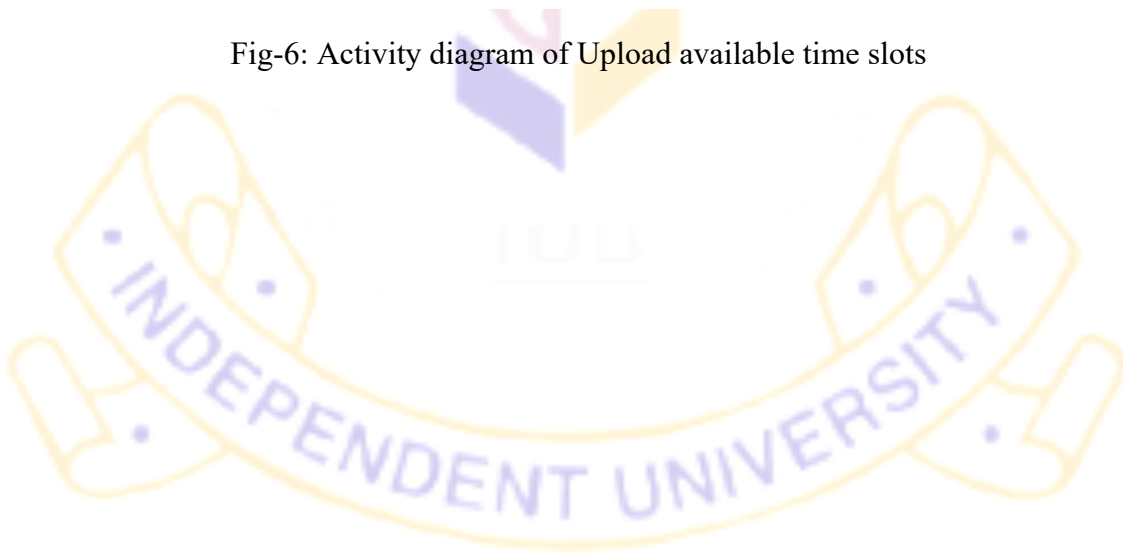


Fig-6: Activity diagram of Upload available time slots



5. Sequence Diagram

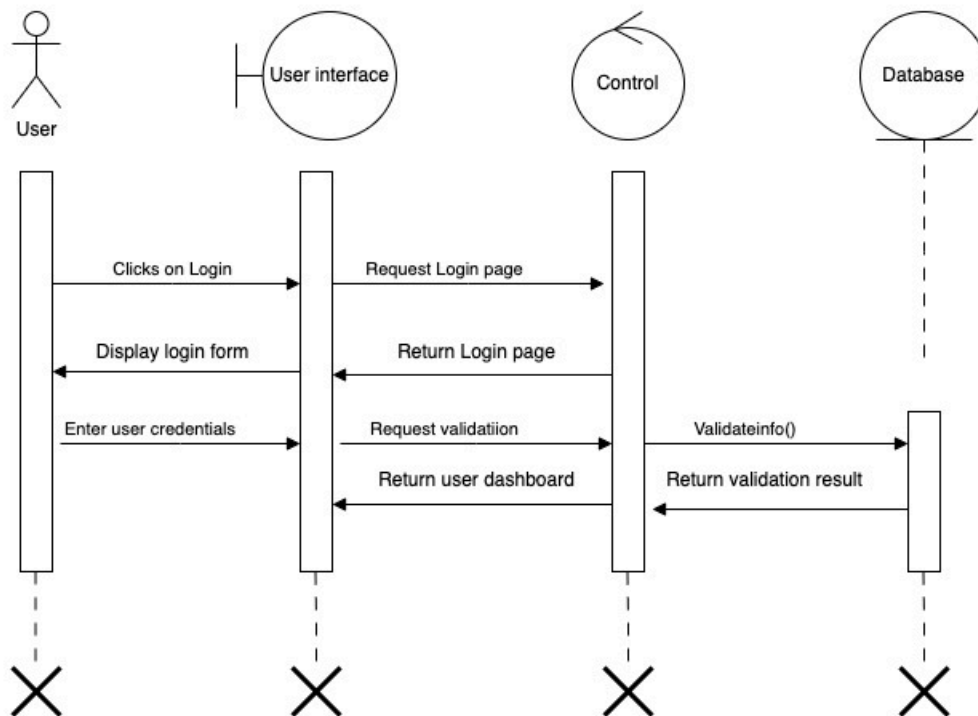


Fig-1: Sequence diagram of Login

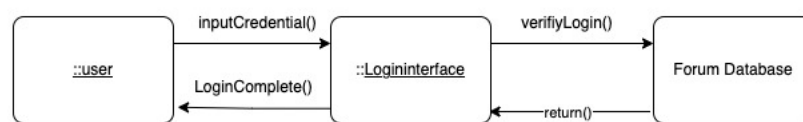


Fig-1: Communication diagram of Login

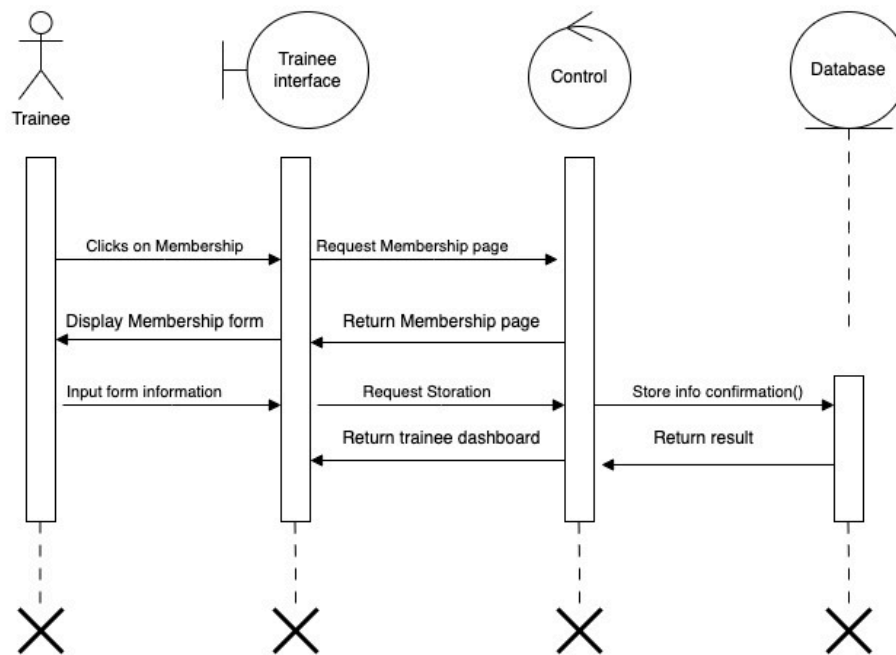


Fig-2: Sequence diagram of Membership

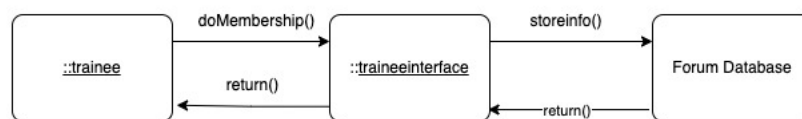


Fig-2: Communication diagram of Membership

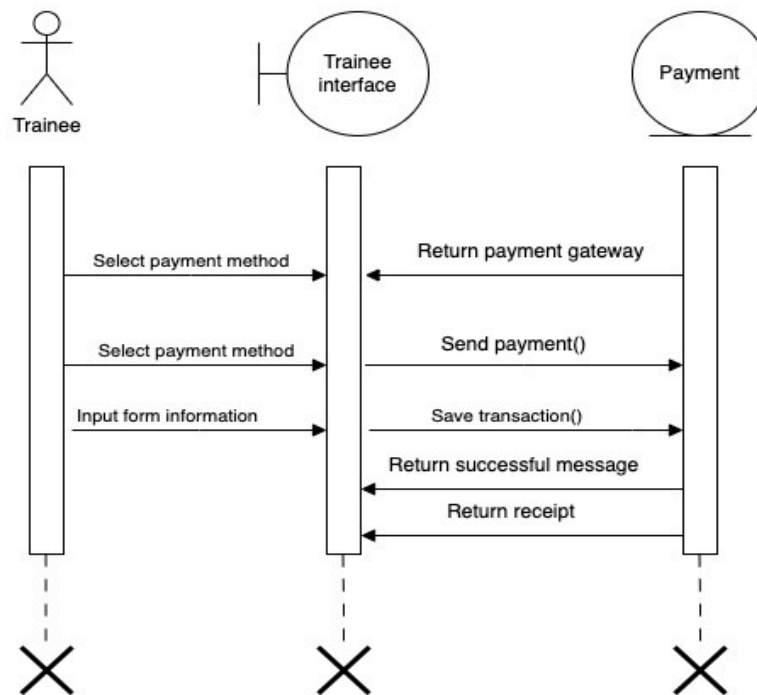


Fig-3: Sequence diagram of Settle transaction



Fig-3: Communication diagram of payment

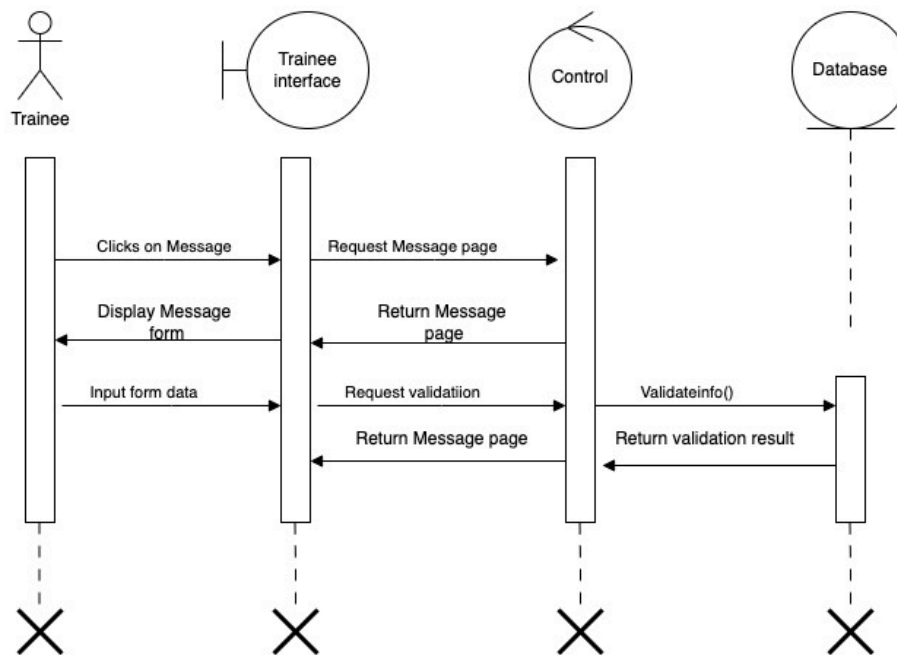


Fig-4: Sequence diagram of Send message

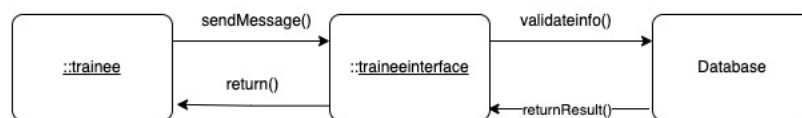


Fig-4: Communication diagram of Send message

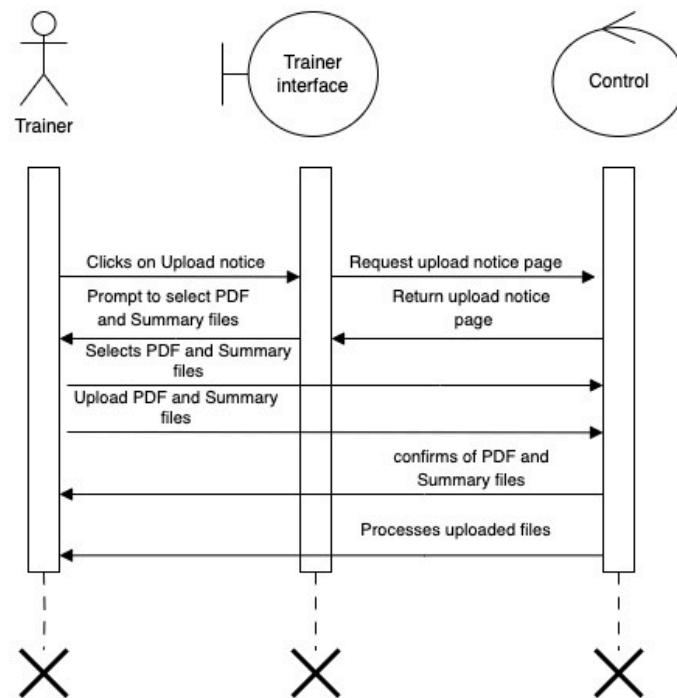


Fig-5: Sequence diagram of Upload notice



Fig-5: Communication diagram of Upload notice

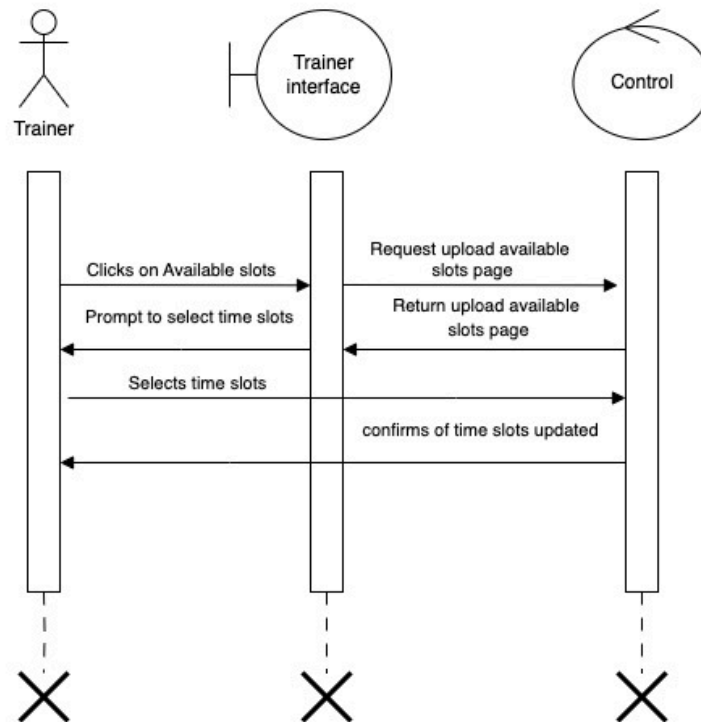


Fig-6: Sequence diagram of Upload available time slots

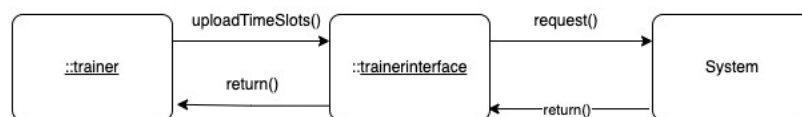
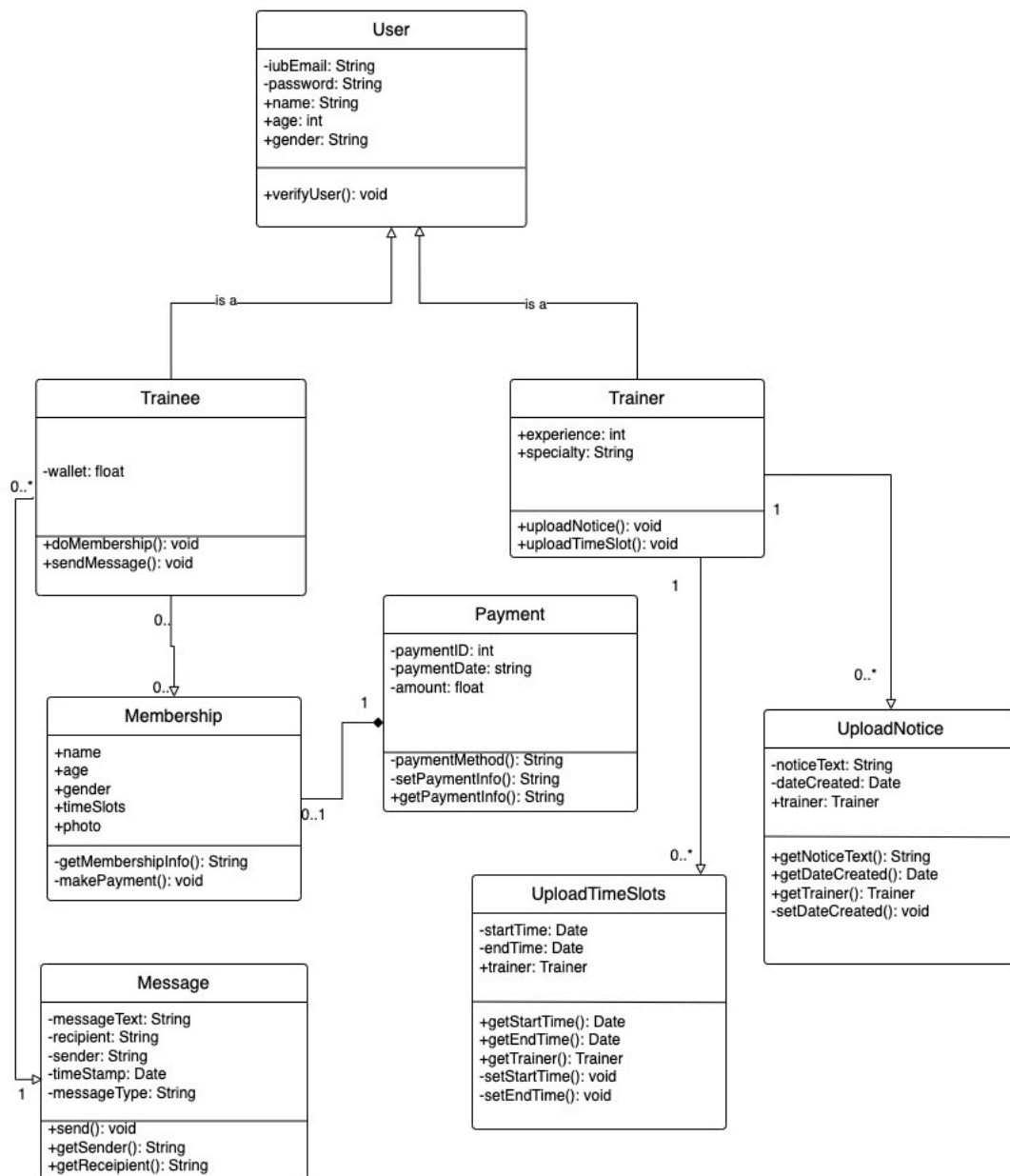


Fig-6: Communication diagram of Upload time slots

6. Class Diagram



7. State Chart Diagram

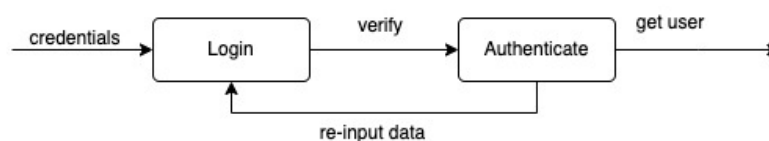


Fig-1: State chart diagram of Login



Fig-2: State chart diagram of membership

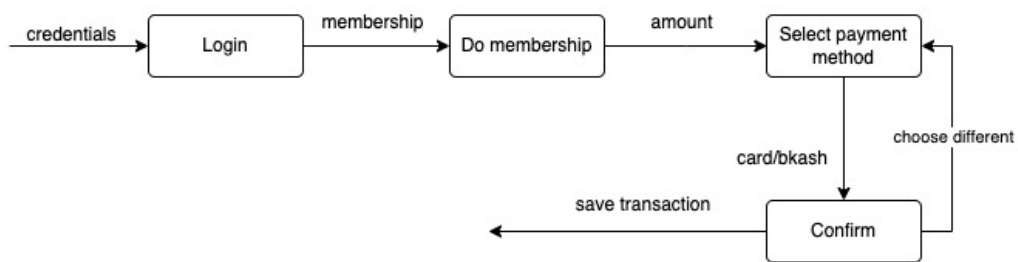


Fig-3: State chart diagram of Payment

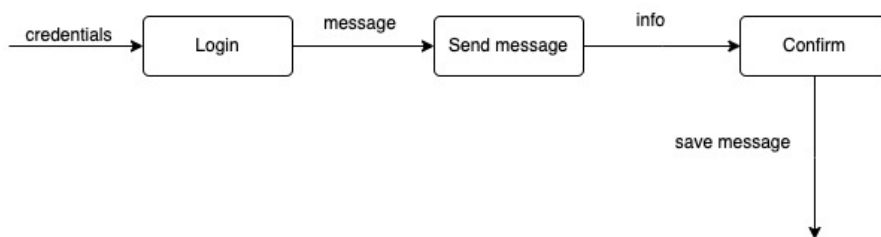


Fig-4: State chart diagram of Send Message

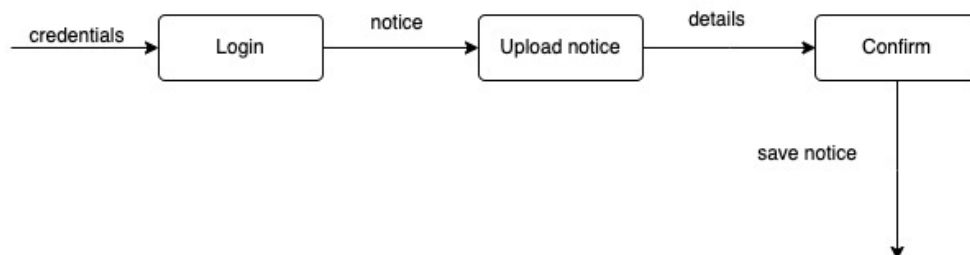


Fig-5: State chart diagram of Upload notice



Fig-6: State chart diagram of Upload time slots

8. CRUD matrix

Activity	Trainee	Trainer	Membership	Message	Payment	Notice	Time slots
Login	R	R					
Edit information	RU	RU					
Do membership	RU	RU	RU				
Make payment	CU		R		C		
Send message	C			CU			
Upload notice	R	CU				U	
Upload time slots	R	CU					U