Topic : Online Teacher Trainer System

We declare that this is our own work and this Assignment does not incorporate without acknowledgment any material previously submitted by anyone else in SLIIT or any other university/Institute. And we declare that each one of us equally contributed to the completion of this Assignment.

Exercise 1

1. User requirements:

1. Customer can visit the teacher trainer system using the trainer website.
2. Customer can register into the system by entering name, Email address, password, contact number.
3. All users can select courses and services that teacher trainer system provided.
4. Customer can buy or add to cart courses and services that teacher trainer system provided.
5. Registered customer can refer course content according to the courses they following
6. Visitors can place the enquiries.
7. Instructor can log in to the system and Check Timetable & conduct a lecture.
8. Admin can add or remove courses or services.
9. admin can manage user accounts
10. Admin can backups the necessary database files as requirements & generate reports.
11. Registered customer make the payment via credit card, debit card or PayPal.
12. Financial manager can validate the payment details and other details by checking card details.
13. Customer can edit user profile details using his username and password after logging to the system.
14. Customer can generate a final report.

2. Noun Verb Analysis:

* 1. Customer can visit the teacher trainer system using the trainer website.
  2. Customer can register into the system by entering name, Email address, password, contact number.
  3. All users can select courses and services that teacher trainer system provided.
  4. Customer can buy or add to cart courses and services that teacher trainer system provided.
  5. Registered customer can refer course content according to the courses they following.
  6. visitors can place the enquirys.
  7. Instructor can log in to the system and Check Timetable & conduct a lecture.
  8. Admin can add or remove courses or services.
  9. admin can manage user accounts.
  10. Admin can backups the necessary database files as requirements & generate reports.
  11. Registered customer make the payment via credit card, debit card or PayPal.
  12. Admin can validate the payment details and other details by checking card details.
  13. Customer can edit user profile details using his username and password after logging to the system.
  14. Customer can generate a final report.

**Nouns:**

* Customer
* Teacher trainer
* System
* Admin
* Website
* Name
* Email Address
* Password
* Contact Number
* Users
* Courses
* Services
* Cart
* Registered Customer
* Visitor
* Enquiry
* Instructor
* Timetable
* Lecture
* Database files
* Payment
* Credit Card
* Debit card
* User Profile
* Report
* Username

**3. Identified Classes:**

1. Customer
2. Admin
3. Courses
4. Report
5. Instructor
6. Lecture Session
7. Payment

* **Reasons for Rejecting Other Nouns**

1. Redundant:

* In Online Teacher Trainer System user, visitor, customer refers to the same person as “Customer”.
* In Online Teacher Trainer System Instructor & teacher trainer refers to the same person as “instructor”.

2. outside scope of system:

• Website, company, system, user profile, database files, services are outside scope of the Online Teacher Trainer System.

3. An attribute:

* Credit Card
* Debit Card
* Name
* Email Address
* PayPal
* Password
* Username
* Contact Number

Exercise 2

CRC Cards :

|  |  |
| --- | --- |
| **Customer** | |
| **Responsibility** | **Collaborators** |
| Login to System |  |
| Search courses | courses |
| Edit profile |  |
| Register to course | admin |
| Make a payment | Payment |

|  |  |
| --- | --- |
| **Admin** | |
| **Responsibility** | **Collaborators** |
| Login to System |  |
| Add or Remove a user | customer |
| Backup files |  |
| Update system details |  |
| Generate report | Report |

|  |  |
| --- | --- |
| **Courses** | |
| **Responsibility** | **Collaborators** |
| Display list of courses |  |
| Update course details | Admin |

|  |  |
| --- | --- |
| **Report** | |
| **Responsibility** | **Collaborators** |
| List of Courses | courses |
| List of customer details | customer |
| Payment details | payment |

|  |  |
| --- | --- |
| **Instructor** | |
| **Responsibility** | **Collaborators** |
| Log in to system |  |
| Arrange a quiz | customer |
| Conduct a lecture | customer |

|  |  |
| --- | --- |
| **Payment** | |
| **Responsibility** | **Collaborators** |
| View payment | customer |
| Validate payment | Admin |
| Save payment details |  |

|  |  |
| --- | --- |
| **Lecture Session** | |
| **Responsibility** | **Collaborators** |
| View Schedule |  |
| Update session details | Admin |

|  |
| --- |
| Customer |
| -customerName : string  -customerID : Int  -password : string |
| + customer()  + customer(string customerName, int customerID, string password)  + displayCustomerDetails()  +makePayment()  ~ customer |

|  |
| --- |
| Course |
| -courseID : Int  -courseName : String |
| +Course()  +Course(int courseID, string courseName)  +addCourse()  +removeCourse()  +displayCourseDetails()  ~course |

|  |
| --- |
| Admin |
| -adminName : string  -adminID : Int |
| +Admin()  +Admin(string adminName, int adminID)  +validatePayment()  +updateSystemDetails()  ~Admin |

|  |
| --- |
| Instructor |
| * + - instructorName : string     - instuctorID : Int |
| +Instructor()  +Instructor(string instructorName, int instructorID)  +arrangeQuiz()  ~Instructor |

|  |
| --- |
| Payment |
| * + - paymentID : int     - CourseID : int |
| +Payment()  +Payment(float paymentID, string paymentType)  +DisplayPaymentDetails()  +calculatePayment()  ~Payment |

|  |
| --- |
| Report |
| * + - reportID : Int     - reportName : string |
| +Report()  +Report(int reportID, string reportName)  +generateReport()  ~Report |

|  |
| --- |
| Lecture Session |
| -lecID : int  -cutomerID : int |
| +viewSchedule()  +updateSessionDetails() |

|  |
| --- |
| Manage |
| -lecID : int  -date : int |
| +cancelLec()  +updateLec()  +assignDate() |