**CS6004ES –Application Development Group Coursework - 2  
(2019/20)**

This assessment is a group coursework and should be done in a team of a maximum of 2 students.

Your software artefact must be submitted as a Visual Studio project with Visual Studio Solution. It will be marked using Visual Studio 2017 or higher. The coursework carries **30% of the module mark**.

Submission Deadlines: **20th November 2020**

In-class demo: Groups not meeting the deadline must submit their work to the Undergraduate

Registry with a completed *mitigating circumstances form*.

It is online laundry management software that allows following‐up clients, and scheduling delivery of dry‐cleaned and laundered clothes. Online Invoices is also a free invoice maker that generates invoices of dry cleaning and pressing services. With Online Invoices your clients are always updated with your business latest news, services and offers.

Following are requirements gathering out comes of e-laundry system to me implemented in XYZ Company.

1. **Admin:**

a) Manage Admin Accounts.

b) Manage User Accounts.

c) Manage Available laundry services with their service fee.(Iron/pressing/dry clean etc).

d)Manage Customer Orders through different process.(New/Ongoing/ Completed/Delivered).

e) Dashboard( Total Revenue , Total Orders, Pending Orders, Delivered Orders, Total Customers etc)

f) Generate Various reports ( Minimum 3 reports ) with PDF/EXCEL .

2. **Customer:**

a) Signup and Sign In.

b) Place Orders ( Crud Functionality).

c) Track Orders.

c) Customer Dashboard( Total Pending Orders, Total Delivered Orders etc ).

You are the technology architect of XYZ solutions.

Following are the design and development activities you should perform and deliver.

1. Understand the functional requirement given and obtain nonfunctional requirements and domain requirements in order to understand following
   1. Functional risks and mitigations
   2. Nonfunctional risks and mitigations
2. Design object model and data model to mitigate above risks. Your deliverables are
   1. Use case diagram
   2. Class diagram
   3. ER diagram
3. Implement above model using ASP .NET C# . Your deliverables are
   1. Complete Source Code
   2. Full functional RDBMS
4. Your tests should cover all possible risks identified above.

**Marking Scheme for the CS6004ES Group Coursework**

This group coursework counts for 30% of the module mark. The following are guidelines for marking. Mark each item listed below on a scale 0 to 5 where the marks correspond. Then multiply the mark by the weighting indicated, total and divide by 2 to get the total mark.

|  |  |
| --- | --- |
| Mark | Characterized by |
| 0 | No work or work totally irrelevant |
| 1 | Work started on right lines but no result |
| 2 | Some result, with major lack and/or errors |
| 3 | Acceptable result but incomplete, or some good result with minor errors |
| 4 | Good result but can be further polished |
| 5 | Excellent result |

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| --- | --- | --- | --- | --- |
|  | **Item** | **Weight** | ***Mark***  ***(0 to 5)*** | ***Weight x Mark*** |
| **Software Implementation** | |  |  |  |
| 1 | The application user interface and menu | 2 | 5 | 10.00 |
| 2 | Admin access control | 2 | 5 | 10.00 |
| 3 | Task 1: Manage Admin accounts | 2 | 5 | 10.00 |
| 4 | Task 2: Manage User accounts. | 3 | 5 | 15.00 |
| 5 | Task 3: Customer signup and sign in | 4 | 5 | 20.00 |
| 6 | Task 4: Manage laundry services | 2 | 5 | 10.00 |
| 7 | Task 5: place orders and manage orders | 3 | 5 | 15.00 |
| 8 | Task 6: Track orders. | 2 | 5 | 10.00 |
| 9 | Task 7: Customer Dashboard | 2 | 5 | 10.00 |
| 10 | Task 8: Reports | 2 | 5 | 10.00 |
| 11 | Task 9: Admin Dashboard | 4 | 5 | 20.00 |
| 12 | Task 10: User manual to guide end user | 2 | 5 | 10.00 |

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| **Reflective Essay** | |  |  |  |
| A | Installation Guide and Configuration and Manual | 1 | 5 | 5.00 |
| B | Design ER diagram | 1 | 5 | 5.00 |
| C | The software architecture | 1 | 5 | 5.00 |
| D | Detailed description of the classes’ properties and methods and the class diagram | 1 | 5 | 5.00 |
| E | Individual member own reflection of own experience | 1 | 5 | 5.00 |
| **Programming style** | |  |  |  |
| 1 | Clarity of code | 1 | 5 | 5.00 |
| 2 | Sensible naming of programmer-defined variables, classes, properties and methods | 1 | 5 | 5.00 |
| 3 | Useful comments in code | 1 | 5 | 5.00 |
| 4 | Data validation and exception handling | 1 | 5 | 5.00 |
| 5 | Interface design and usability of the system | 1 | 5 | 5.00 |
|  | **Total** |  |  | **200.00** |