University of Engineering & Management, Kolkata
Department of Computer Science & Engineering

Paper Name: Software Engineering Laboratory
Paper Code: PCCCSE692

Assignment list

Week 1:
Design a simple PHP page (including html, CSS and JS) and build the connectivity with database & host the same using XAMPP or WAMP Server.

Week 2:
Understanding of different modules for different systems (e.g. library management system) and develop the display, insert, update and deletion operation with the help of PHP and MySQL.

Week 3:
(i) Design Software Requirement Specification for Library Management System
(ii) Capture the requirement of Library Management System using:
1. Decision Tree
2. Decision Table

Week 4:
1. Plot the curve of the Development Time vs. Size of the software project in COCOMO model.
2. Given required activity timings, plot the activity network and then calculate the timing parameters to show the critical path available for the project completion.

Week 5:
Draw the Structure Chart and Use Case diagram for the following systems
(i) Library Management System.
(ii) Inventory Management System.
(iii) Shopping Management System.
(iv) Courier / Package Delivery Management System.

Week 6:
Draw the Class Diagram and Object Diagram for the following systems
(i) Movie Ticket Booking System.
(ii) Hospital Management System.
(iii) Loan Management System.
(iv) University Examination Management System.

Week 7:

Draw the Activity Diagram, Sequence Diagram and respective collaboration diagram for the following systems

(i) Railway Reservation System.
(ii) Medical Store Management System.
(iii) Student Admission System.

Week 8:

1. Draw the State Chart Diagram for an order Online Shopping System for fulfilling an order.
2. Design the Data Flow Diagram(DFD) for a Super Market Prize Automation System. (PAS) and indicate the respective levels of the designed DFDs up to level 2.

Week 9:

1. Design the test cases, test suite and Control Flow Graph for the following snippet:

```
Int gcd( int x, int y)
1.{ while(x!=y)
2. { if(x>y)
3. x=x-y;
4. else y=y-x; 5. }
6. return(x);
}
```

2. From the Control Flow Graph find Mc Cabe's Cyclomatic Complexity for the above code snippet.

Week 10-12:

1. Design a complete project using Servlet-JSP with JDBC Connectivity and host the project.
2. Prepare the complete SRS document for the same project.

** All the UML diagrams must be drawn using Star UML software.

****