Group X

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Software Specifications

Smart Restaurant System

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## System Architecture

The system architecture is shown below:



## T1: Unit Test

### T1.1: OrderDB Unit Test

T1.1.1: Test register()

function register(DB,order)

DB.orderList=[DB.orderList;order]; Tcover1.1.1.1

end

* Coverage Criteria: Statement coverage
* Test case

|  |  |
| --- | --- |
|  | Test Case T1.1.1.1 |
| Coverage Item | Tcover1.1.1.1 |
| Input | od=Order;  od.table='Table 1';  od.items={'test' 1 20};  od.startTime=datestr(now,'HH:MM:SS'); |
| State | db=OrderDB; |
| Expected Output | Od==db.orderList(1) |

* Test coverage: 1/1=100%
* Test result: 1 passed

T1.1.2: Test retrieve()

T1.1.3: Test update()

## T2: Integration Test

T2.1: OrderProcessor+OrderDB Integration

T2.2: ServerUI+OrderProcessor+OrderDB Integration

## T3: Functional Test

T3.1: Use Case “Take Order”

T3.2: Use Case “Change Order”