

# UML

UML Unified Modeling Language

1997 OMG(Object Management Group)

## Diagram

					URL
1	<p>The class diagram illustrates the following elements:</p> <ul style="list-style-type: none"> <li><b>Customer</b> (Class): name, address.</li> <li><b>Order</b> (Class): date, status, calcTax, calcTotal, calcTotalWeight.</li> <li><b>Payment</b> (Interface): amount.</li> <li><b>Credit</b> (Class): number, type, expDate, authorized.</li> <li><b>Cash</b> (Class): cashTendered.</li> <li><b>Check</b> (Class): name, bankID, authorized.</li> <li><b>OrderDetail</b> (Class): quantity, taxStatus, calcSubTotal, calcWeight.</li> <li><b>Item</b> (Class): shippingWeight, description, getPriceForQuantity, getWeight.</li> </ul> <p>Relationships and Multiplicities:</p> <ul style="list-style-type: none"> <li>Customer (1) is associated with Order (0..*).</li> <li>Order (1) is associated with Payment (1..*).</li> <li>Payment (1) is implemented by Credit, Cash, and Check (6).</li> <li>Order (1) is associated with OrderDetail (1..*).</li> <li>OrderDetail (0..*) is associated with Item (1).</li> </ul> <p>Legend:</p> <ul style="list-style-type: none"> <li>1 Interface, 2 Association, 3 Class Name, 4 Fields, 5 Methods, 6 Implementation, 7 Role Name, 8 Multiplicity, 9 Navigability</li> </ul>				Class Diagram( )
2	<p>The flow chart details the following process:</p> <ol style="list-style-type: none"> <li>Start: Patient reports TB</li> <li>Decision: No. cough TB symptoms?       <ul style="list-style-type: none"> <li>If Yes: Treat as likely TB patient and perform full TB exam.</li> <li>If No: Have patient report back if cough, fever in 2 weeks for checkup.</li> </ul> </li> <li>Decision: Can TB be diagnosed?       <ul style="list-style-type: none"> <li>If Yes: Administer TB exam → Assess TB test results and clinical condition.</li> <li>If No:           <ul style="list-style-type: none"> <li>Decision: Obvious?               <ul style="list-style-type: none"> <li>If Yes: 4 months preventive treatment → Reassess starting in 4-6 months and symptoms.</li> <li>If No: Take full history. Continue for TB → If TB likely diagnosis, treat for TB → If other diagnosis, monitor, treat as needed and watch for TB symptoms.</li> </ul> </li> </ul> </li> </ul> </li> </ol>				Flow Chart( )

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3	<h2 style="text-align: center;">Organizational Chart</h2> <p>The organizational chart starts with a red box at the top labeled 'Texts here'. It branches into two blue boxes, each labeled 'Texts here'. Each blue box further branches into two orange boxes, each labeled 'Texts here'. The orange boxes then branch into blue boxes, and finally into grey boxes at the bottom level, representing a multi-level hierarchy.</p>	Org Chart( )			
4	<p>The swimlane diagram is divided into five vertical lanes: Human Resources, Employee, Manager, Payroll, and Payroll Center. The process flow starts in Human Resources with 'Request Entry' and 'Company Entry New Employee HR'. It moves to Employee for 'New Payroll Entry' and 'Change Center HR &amp; New Salary Report'. The Manager lane involves 'Review &amp; Approve' and 'Approval/Rejection'. The Payroll lane includes 'Review Completion', 'HR Employee Request', 'Contact Employee Information Report', 'Has Time off?', 'Contact Employee', 'Review for Data Processing', and 'Send Data to Payroll Processor'. The Payroll Center lane includes 'Data Approved?' and 'Correct Error'. The process ends with 'Process Payment'.</p>	Swimlane Diagram( )			
5	<h3 style="text-align: center;">Order System ER Diagram</h3> <p>The ER diagram shows several entities: Customer, Order, Product, Supplier, and OrderItem. Each entity is represented by a rectangle with its name and a list of attributes. Relationships are shown as lines connecting the entities. For example, Customer is linked to Order, Order is linked to Product, and Product is linked to Supplier. OrderItem is linked to both Order and Product.</p>	Entity Relationship Diagram(ERD)			

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6	<pre> sequenceDiagram     participant IRequestor     participant IAuthorizer     participant IAuthRepository     participant ITransact      IRequestor-&gt;&gt;IAuthorizer:  operation( reqId,  params1*)     activate IAuthorizer     IAuthorizer-&gt;&gt;IAuthRepository: opAuth =  getAuth(reqId,  operId)     activate IAuthRepository     IAuthRepository--&gt;&gt;IAuthorizer:      deactivate IAuthRepository     alt [opAuth = null]         IAuthorizer--&gt;&gt;IRequestor: error     else [else]         IAuthorizer-&gt;&gt;ITransact: perform_operation( reqId,  params1*)         activate ITransact         ITransact--&gt;&gt;IAuthorizer:          deactivate ITransact     end     IAuthorizer--&gt;&gt;IRequestor: done     deactivate IAuthorizer           </pre>	Sequence Diagram( )																	
7	<p style="text-align: center;"><b>Scrum Task Board Template</b> Company name</p> <table border="1"> <thead> <tr> <th>Stories</th> <th>To Do</th> <th>In Progress</th> <th>Testing</th> <th>Done</th> </tr> </thead> <tbody> <tr> <td> <p>This is a sample text. Replace it with your own text.</p> </td> <td> <p>This is a sample text. Replace it with your own text.</p> <p>This is a sample text. Replace it with your own text.</p> </td> <td> <p>This is a sample text.</p> <p>This is a sample text.</p> </td> <td> <p>This is a sample text.</p> <p>This is a sample text.</p> </td> <td> <p>This is a sample text. Replace it with your own text.</p> <p>This is a sample text. Replace it with your own text.</p> </td> </tr> <tr> <td> <p>This is a sample text. Replace it with your own text.</p> </td> <td> <p>This is a sample text.</p> <p>This is a sample text.</p> </td> <td> <p>This is a sample text.</p> <p>This is a sample text.</p> </td> <td> <p>This is a sample text.</p> <p>This is a sample text.</p> </td> <td> <p>This is a sample text. Replace it with your own text.</p> </td> </tr> </tbody> </table>	Stories	To Do	In Progress	Testing	Done	<p>This is a sample text. Replace it with your own text.</p>	<p>This is a sample text. Replace it with your own text.</p> <p>This is a sample text. Replace it with your own text.</p>	<p>This is a sample text.</p> <p>This is a sample text.</p>	<p>This is a sample text.</p> <p>This is a sample text.</p>	<p>This is a sample text. Replace it with your own text.</p> <p>This is a sample text. Replace it with your own text.</p>	<p>This is a sample text. Replace it with your own text.</p>	<p>This is a sample text.</p> <p>This is a sample text.</p>	<p>This is a sample text.</p> <p>This is a sample text.</p>	<p>This is a sample text.</p> <p>This is a sample text.</p>	<p>This is a sample text. Replace it with your own text.</p>	Kanban Board( )		
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8	<p style="text-align: center;"><b>Software Service Cross-Functional Process</b></p> <pre> graph TD     subgraph Customer         C1[Customer requests help or report a problem] --&gt; C2[Call the user]         C2 --&gt; C3[Define the issue and request customer]         C3 --&gt; C4[Define with customer]         C4 --&gt; C5[More feedback]         C5 --&gt; C6[Define with customer]         C6 --&gt; C7[Define solution]     end     subgraph Tester         T1[Define solution] --&gt; T2[Get more details from customer]         T2 --&gt; T3[Define solution]     end     subgraph Development         D1[Define solution] --&gt; D2[Implement the issue]         D2 --&gt; D3[Implement the issue]         D3 --&gt; D4[Technical analysis]         D4 --&gt; D5[Fix the issue]     end     C1 --&gt; T1     C2 --&gt; T1     C3 --&gt; T1     C4 --&gt; T1     C5 --&gt; T1     C6 --&gt; T1     C7 --&gt; T1     T1 --&gt; D1     T2 --&gt; D1     T3 --&gt; D1     D1 --&gt; D2     D2 --&gt; D3     D3 --&gt; D4     D4 --&gt; D5           </pre>	Cross-Functional Flowchart																	

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