

# UML

UML Unified Modeling Language

1997 OMG(Object Management Group)

## Diagram

					URL
1	<p>The class diagram illustrates the following classes and their relationships:</p> <ul style="list-style-type: none"> <li><b>Customer</b> (Class): Attributes: name, address.</li> <li><b>Order</b> (Class): Attributes: date, status; Methods: calcTax, calcTotal, calcTotalWeight.</li> <li><b>Payment</b> (Interface): Method: amount.</li> <li><b>Credit</b> (Class): Attributes: number, type, expDate, authorized.</li> <li><b>Cash</b> (Class): Attribute: cashTendered.</li> <li><b>Check</b> (Class): Attributes: name, bankID, authorized.</li> <li><b>OrderDetail</b> (Class): Attributes: quantity, taxStatus, calcSubTotal, calcWeight.</li> <li><b>Item</b> (Class): Attributes: shippingWeight, description; Methods: getPriceForQuantity, getWeight.</li> </ul> <p>Relationships:</p> <ul style="list-style-type: none"> <li><b>Customer</b> (1) is associated with <b>Order</b> (0..*).</li> <li><b>Order</b> (1) is associated with <b>Payment</b> (1..*).</li> <li><b>Payment</b> (1) is implemented by <b>Credit</b> (6) and <b>Cash</b> (6).</li> <li><b>Order</b> (1) is associated with <b>OrderDetail</b> (7) with a multiplicity of 1..* (8).</li> <li><b>OrderDetail</b> (0..*) is associated with <b>Item</b> (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 outlines the following process:</p> <ol style="list-style-type: none"> <li>Start: Patient exposed to TB.</li> <li>Decision: Has symptoms?       <ul style="list-style-type: none"> <li>If Yes: Treat as likely TB, perform and perform full TB exam.</li> <li>If No: Have patient report back if unwell, return in 2 weeks for checkup.</li> </ul> </li> <li>Decision: Can TB test be performed?       <ul style="list-style-type: none"> <li>If Yes: Administer TB test.           <ul style="list-style-type: none"> <li>Result: TB test result and clinical condition.</li> </ul> </li> <li>If No: 4 months preventive course.           <ul style="list-style-type: none"> <li>Management: Starting in 4 months (if no symptoms and symptoms).</li> </ul> </li> </ul> </li> <li>Decision: Contacted?       <ul style="list-style-type: none"> <li>If Yes: Take full history, examine for TB.           <ul style="list-style-type: none"> <li>Diagnosis: If TB likely diagnosis, treat for TB.               <ul style="list-style-type: none"> <li>Management: If other diagnosis, manage accordingly, return as needed and watch for TB symptoms.</li> </ul> </li> </ul> </li> <li>If No: (Path ends here).</li> </ul> </li> </ol>	Flow Chart( )			

					URL
3	<h3 style="text-align: center;">Organizational Chart</h3> <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', 'Final Time Sheet?', 'Contact Employee', 'Review for Data Processing', and 'Send Data to Payroll Processor'. The Payroll Center lane ends with 'Review Reports'. Decision diamonds are used to branch the flow between lanes.</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 connected to 'Order', 'Order' to 'Product', and 'Product' to 'Supplier'. 'OrderItem' is connected to both 'Order' and 'Product'. The diagram uses crow's foot notation for the relationships.</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>Task card</td> <td>Task card</td> <td>Task card</td> <td>Task card</td> <td>Task card</td> </tr> <tr> <td>Task card</td> <td>Task card</td> <td>Task card</td> <td>Task card</td> <td>Task card</td> </tr> <tr> <td>Task card</td> <td>Task card</td> <td>Task card</td> <td>Task card</td> <td>Task card</td> </tr> </tbody> </table>	Stories	To Do	In Progress	Testing	Done	Task card	Task card	Task card	Task card	Task card	Task card	Task card	Task card	Task card	Task card	Task card	Task card	Task card	Task card	Task card	Kanban Board( )		
Stories	To Do	In Progress	Testing	Done																				
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8	<p style="text-align: center;"><b>Software Service Client Onboarding Process</b></p> <pre> graph TD     subgraph Customer         C1[Customer requests help or report a problem]         C2[Customer provides feedback]         C3[Customer provides feedback]     end     subgraph Support         S1[Call the issue]         S2[Resolve the issue and respond customer]         S3[Resolve solution]         S4[Get more details from customer]         S5[Resolve solution]         S6[Offer support]         S7[Technical analysis]     end     subgraph Development         D1[Call the issue]         D2[Resolve solution]         D3[Fix the issue]     end     C1 --&gt; S1     S1 --&gt; S2     S2 --&gt; C2     C2 --&gt; S3     S3 --&gt; S4     S4 --&gt; S5     S5 --&gt; C3     C3 --&gt; S6     S6 --&gt; D1     D1 --&gt; D2     D2 --&gt; D3     D3 --&gt; S7     S7 --&gt; S8[Fix the issue]     S8 --&gt; C4[Feedback] </pre>	Cross-Functional Flowchart																						

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