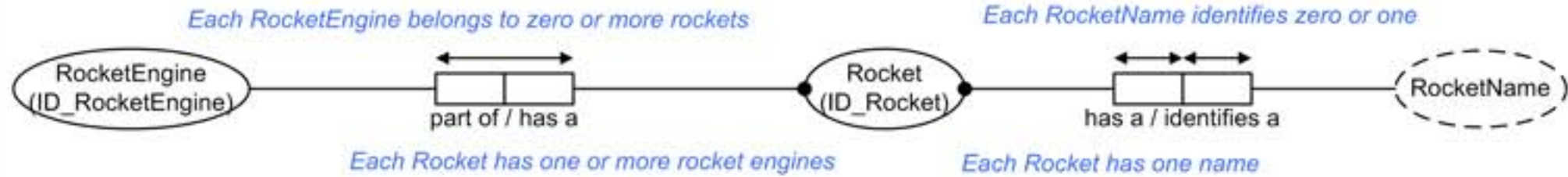


Database Modeling

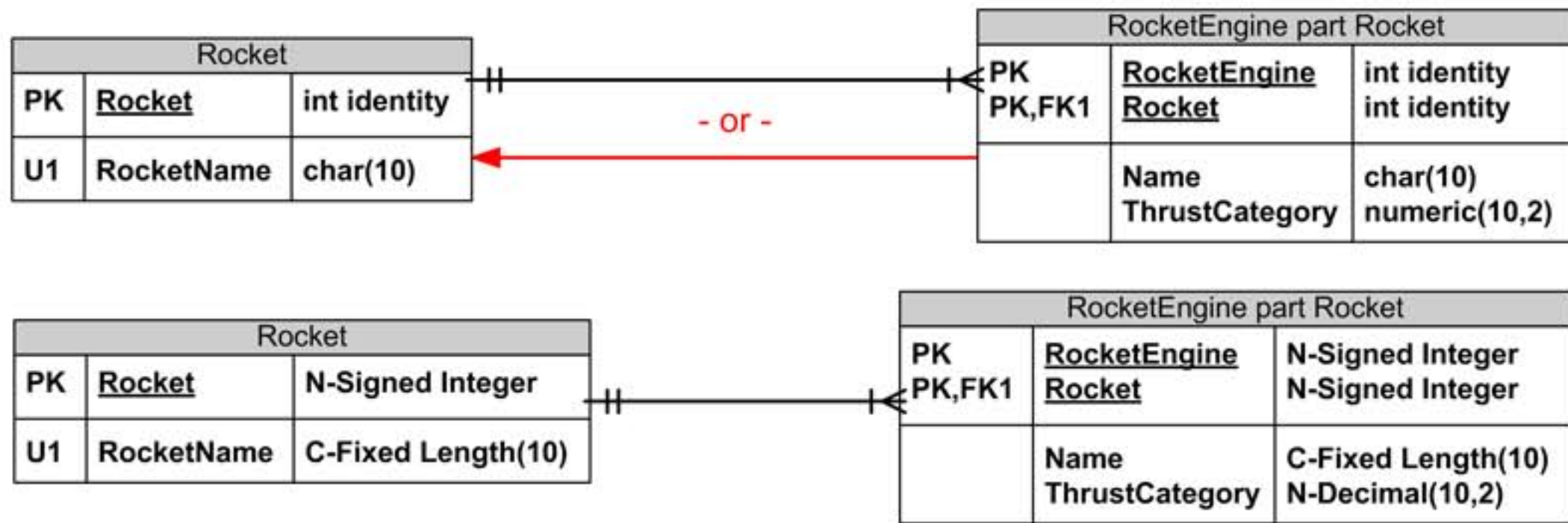
Object Role Modeling (ORM)

- Understandable** ... Express facts and rules in English and/or intuitive graphics
- Reliable** ... Validate rules using English and sample populations of data
- Expressive** ... Capture more business rules graphically
- Stable** ... Minimize the impact of change to models and queries



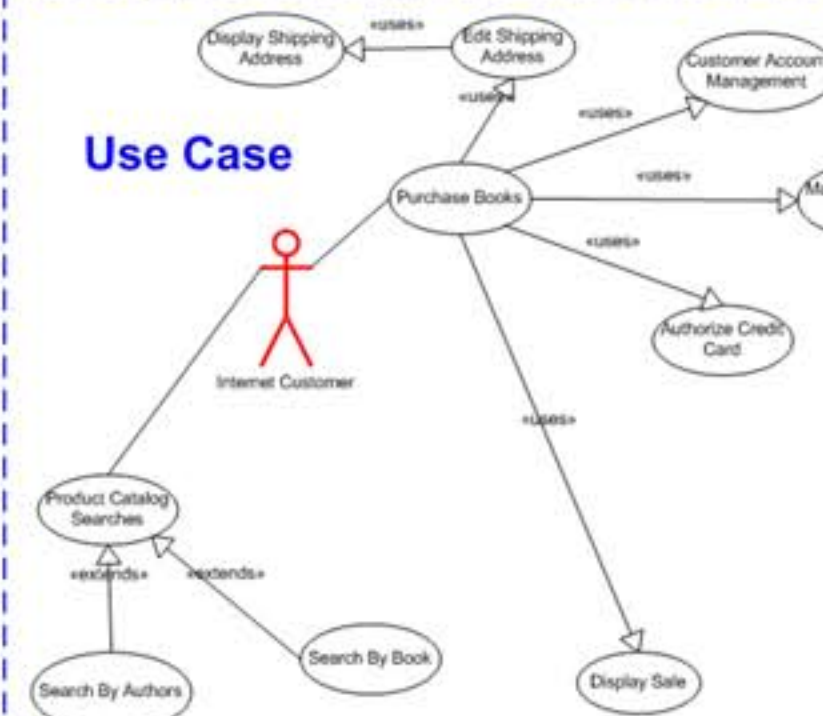
Entity Relationship Diagrams (ERD)

- Specifies how the database is going to implement the ORM conceptual model
- Allows you to **define specific database implementation details**
- Indexes, Keys, Triggers, Relationship Cardinality, Extended Properties, Filegroups

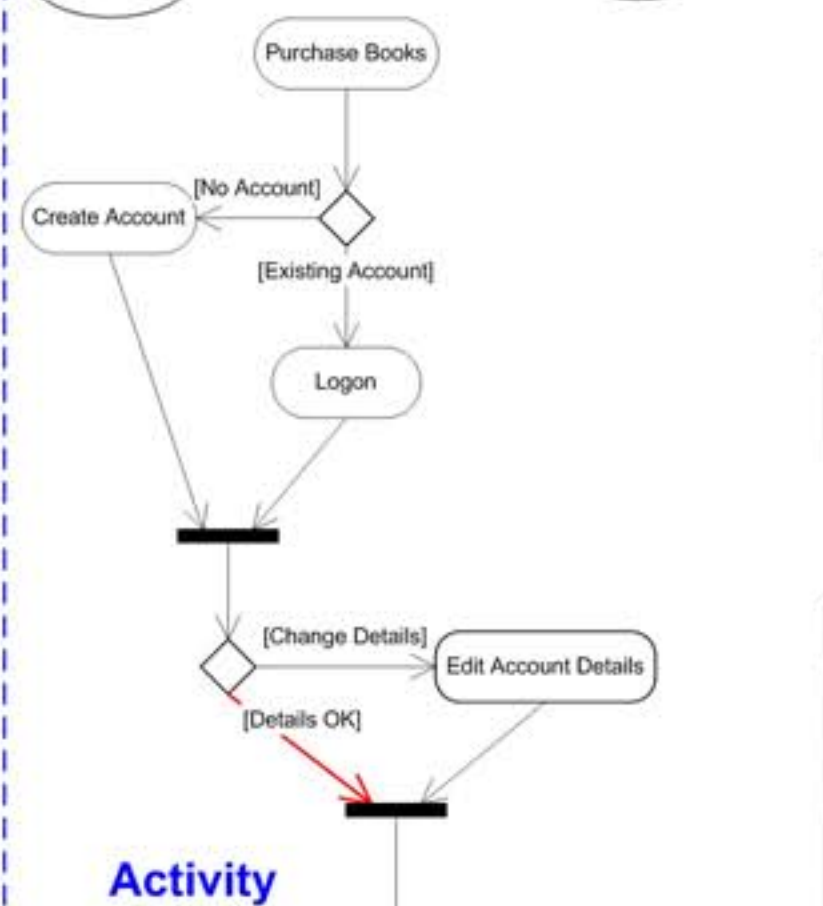
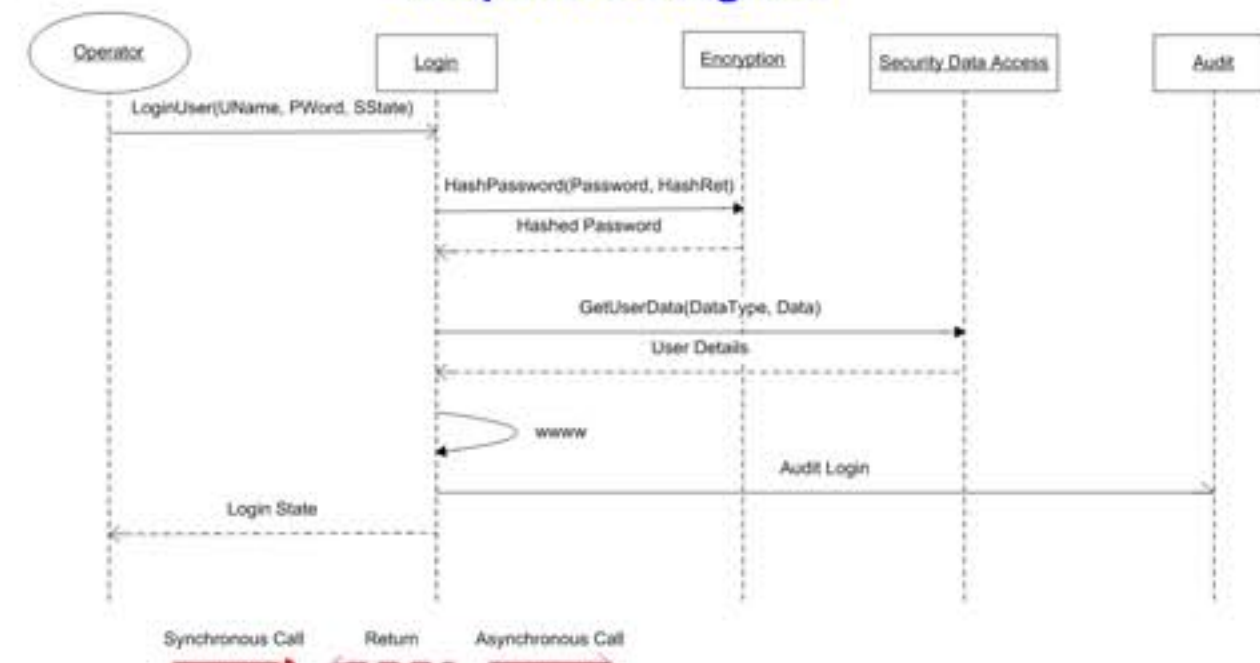


Software Modeling

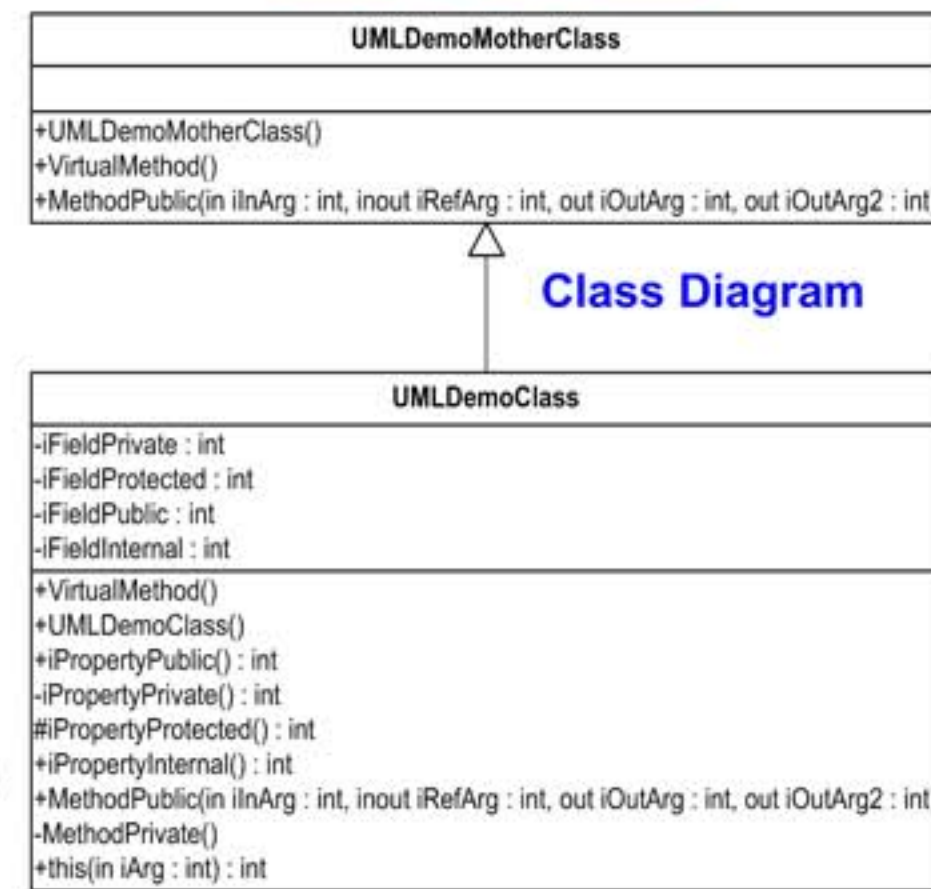
Use Case



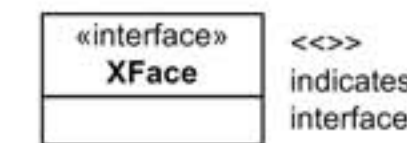
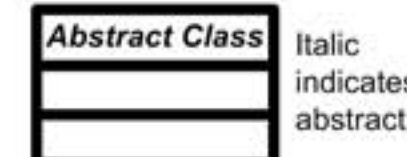
Sequence Diagram



Activity



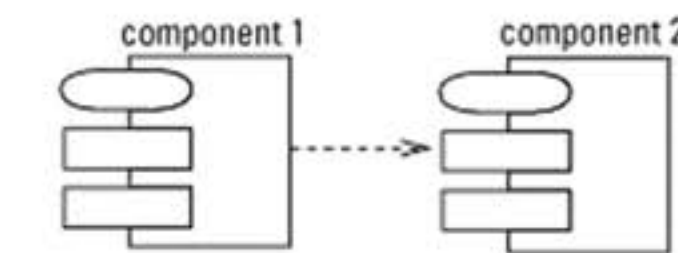
Class Diagram



Association "Has A"
Aggregation: airport has aircraft, but neither is part of the other
Composition: tyres and engines are part of an aircraft

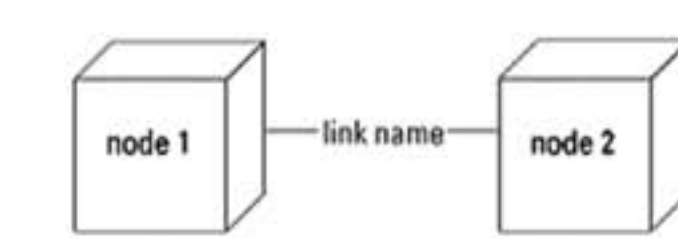
COMPONENT DIAGRAM

Shows the dependencies between software components

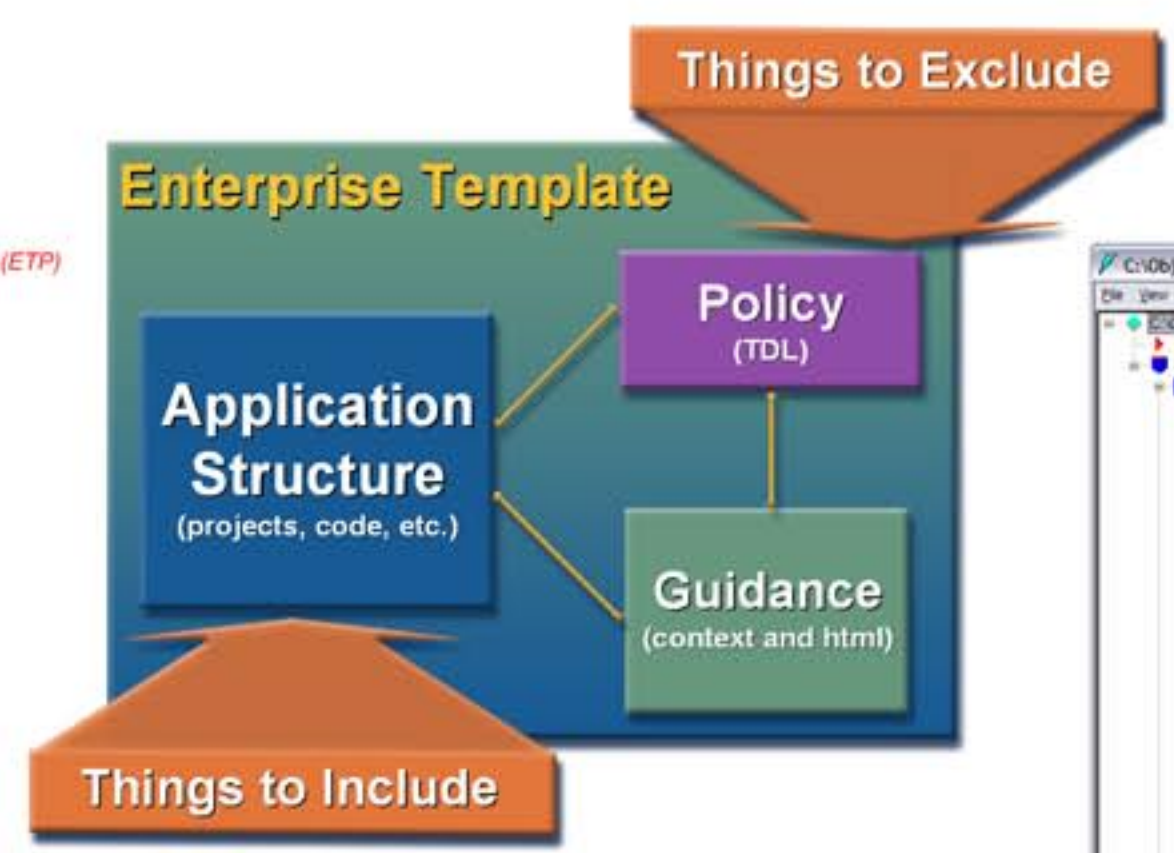
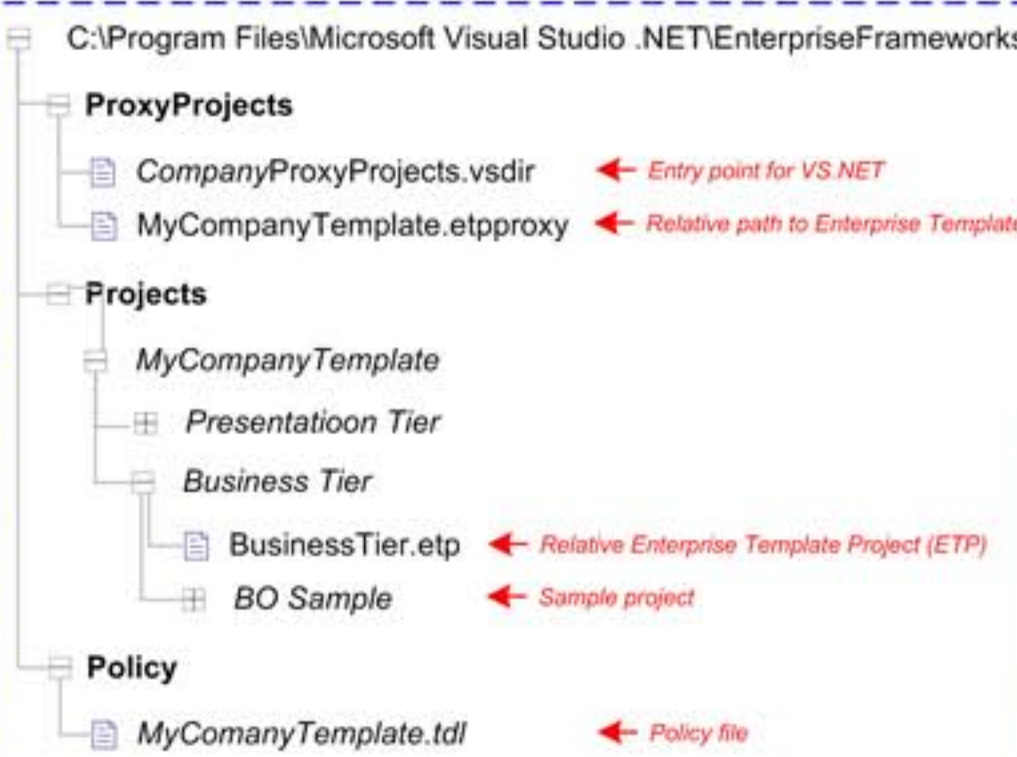


DEPLOYMENT DIAGRAM

Shows the configuration of runtime processing elements



Enterprise Templates



ILDasm

