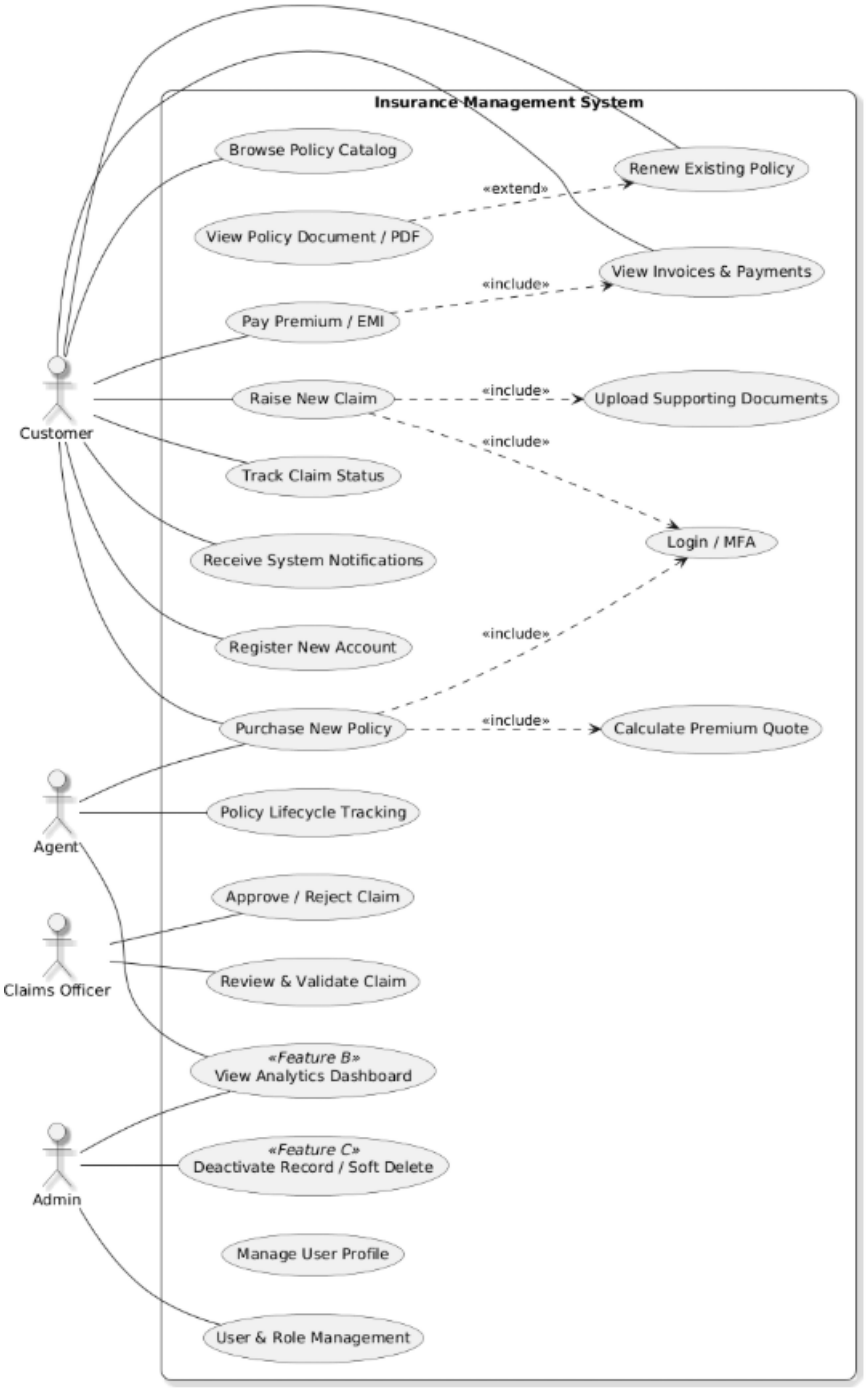
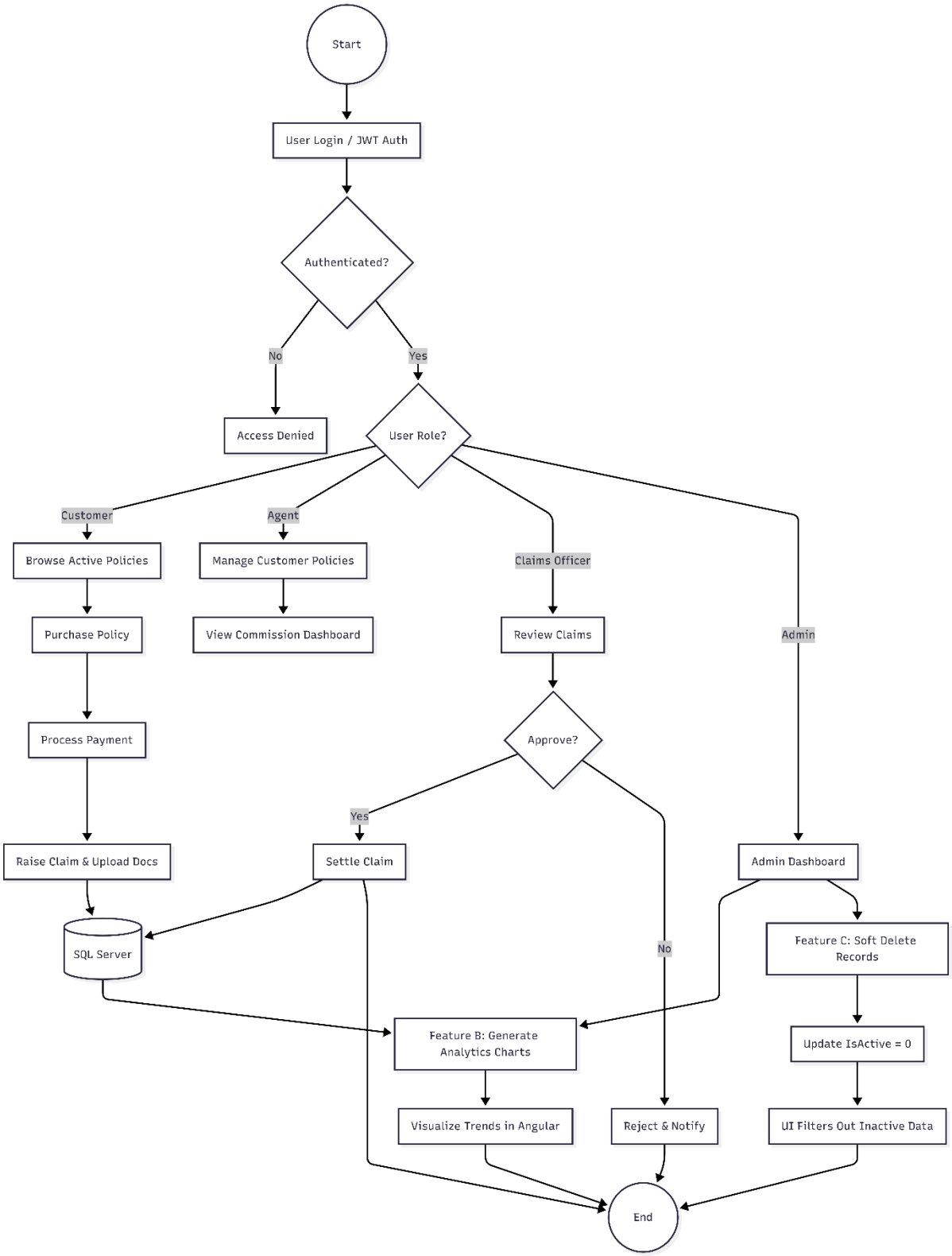
Use Case diagram

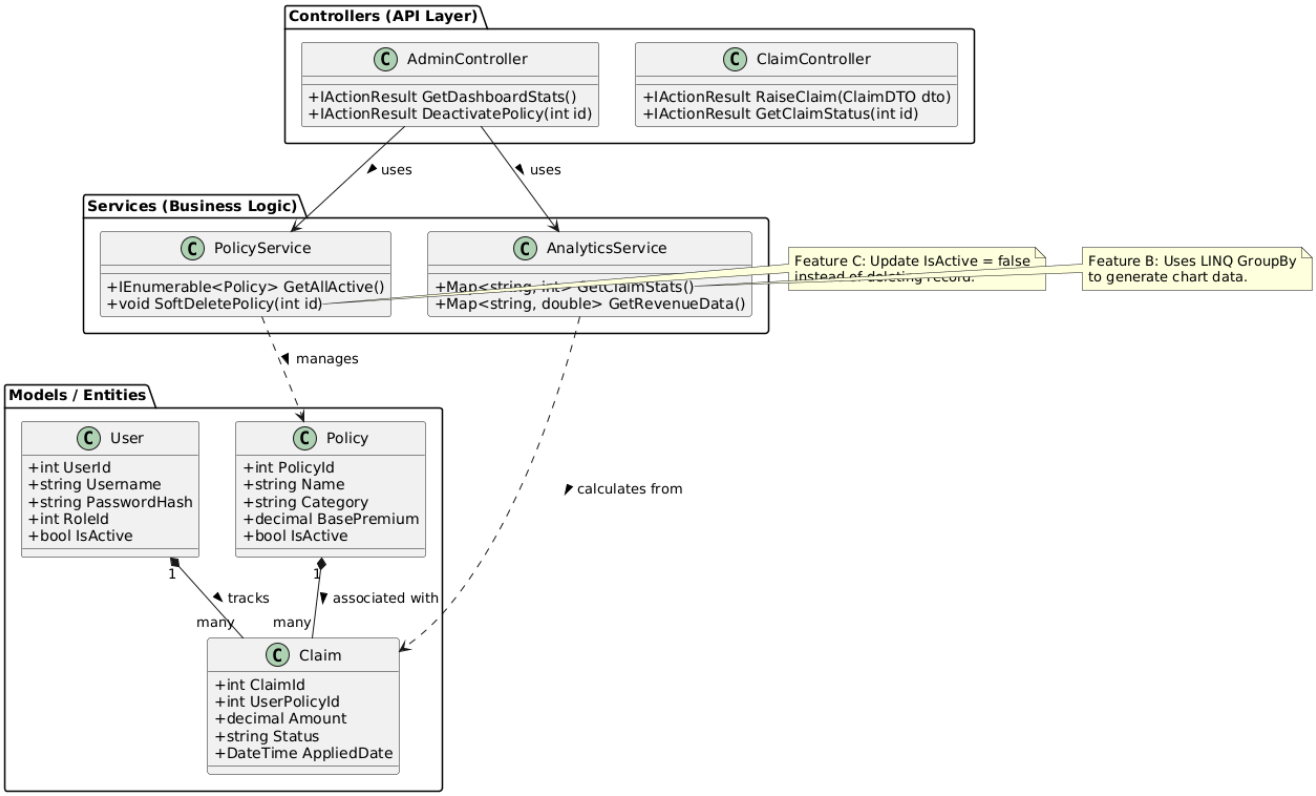


Sequence Diagram

Project Workflow



ER Diagram


Controllers (API Layer)
AdminController
+IActionResult GetDashboardStats()
+IActionResult DeactivatePolicy(int id)
ClaimController
+IActionResult RaiseClaim(ClaimDTO dto)
+IActionResult GetClaimStatus(int id)
uses
uses
Services (Business Logic)
PolicyService
+IEnumerable<Policy> GetAllActive()
+void SoftDeletePolicy(int id)
AnalyticsService
+Map<string, int> GetClaimStats()
+Map<string, double> GetRevenueData()
Feature C: Update IsActive = false instead of deleting record.
Feature B: Uses LINQ GroupBy to generate chart data.
manages
Models / Entities
User
+int UserId
+string Username
+string PasswordHash
+int RoleId
+bool IsActive
Policy
+int PolicyId
+string Name
+string Category
+decimal BasePremium
+bool IsActive
calculates from
1
tracks
many
1
associated with
many
Claim
+int ClaimId
+int UserPolicyId
+decimal Amount
+string Status
+DateTime AppliedDate