**4. Functional Requirements**

| **ID** | **Requirement** | **Explanation** | **Development Group** |
| --- | --- | --- | --- |
| **FR01** | List all movies (paginated) | API must return movie list in pages of 50, with page number via query param | Backend, API |
| **FR02** | Get movie details | Endpoint must return all metadata for a given movie ID | Backend, API |
| **FR03** | List movies by year | Filter movies by release year using query param | Backend, API |
| **FR04** | List movies by genre | Filter movies using genre as a query param | Backend, API |
| **FR05** | Budget displayed in dollars | Budget values must be formatted as currency in USD | Backend, DTO Mapper |
| **FR06** | SQL-backed data source | Data must be retrieved via SQL (JPA or raw SQL) against the relational DB | Backend, Persistence |
| **FR07** | REST API via HTTP | All functionality must be exposed as standard HTTP REST endpoints | API, DevOps |
| **FR08** | Path & query parameters | Endpoints must use standard REST conventions with path/query param support | Backend, API |