# Introduction

This document is to describe available services that design to be used by external party.

# Services

## MovieListService

1. This service provides information retrieval functions, i.e. retrieve for movie details and movie schedule.
2. Business entities are mapped to specific service entities using MLEntityMapperTranslator before send to client.
3. Custom fault contract is used to throw certain exception to client.

Operation Contracts:

|  |  |
| --- | --- |
| **Method Name** | **Description** |
| List<SvcMovieSchedule> MovieScheduleListPerMovie(string movieName) | Retrieve movie schedule list for a movie, movie name as the parameter |
| List<SvcMovieSchedule> MovieScheduleListPerDay(DateTime dt) | Retrieve movie schedule list for a day, date as the parameter |
| SvcMovie MovieDesc(string movieName) | Retrieve movie description for a movie, movie name as the parameter |

Architecture Scope:

|  |  |
| --- | --- |
| **Scope** | **Selection** |
| Binding | basicHttpBinding |
| Instancing | PerCall |
| Security | NA |
| Communication | Synchronous |
| Hosting | Windows service  Service installer: MovieBooking.MovieListWAS.exe |

## CollectionService

1. This service provides information retrieval functions, i.e. retrieve for paid bookings for a day, total revenue and ticket sold for a day.
2. Business entities are mapped to specific service entities using EntityMapperTranslator before send to client.
3. Custom fault contract is used to throw certain exception to client.

Operation Contracts:

|  |  |
| --- | --- |
| **Method Name** | **Description** |
| List<SvcBooking> GetBookingListByDateRange(DateTime startDate, DateTime endDate) | Retrieve paid booking list for a date range, specify booking date start and end as the parameter |
| List<SvcBooking> GetBookingListByDate(DateTime startDate) | Retrieve paid booking list for a day, booking date as the parameter |
| SvcRevenue GetDailyRevenue(DateTime startDate) | Retrieve total revenue amount and total number of ticket sold for a day, payment date as the parameter |

Architecture Scope:

|  |  |
| --- | --- |
| **Scope** | **Selection** |
| Binding | wsHttpBinding |
| Instancing | PerSession, with timeout control |
| Security | Message-level; Authentication using certificate |
| Communication | Synchronous |
| Hosting | IIS |

Server and client certificate for test:

