

This is a SAMPLE Case Study Only.

Teams may use this for scoping their project using another context like Airlines, Hotel, Gym, etc. business applications of their choice.

Teams may size up or down either the volume or complexities depending on team size and strengths.

A compact, highly functional and well-designed software would gain more credit than a poorly designed or weakly engineered software even if it is of large volume!

Use-Case-Model for Movie Ticketing System Issue <1.0>

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Use-Case-Model Survey for Movie Ticketing System

1. Introduction

"Paramount Silver" is a leading movie theatre located at the downtown bay area. It has recently expanded and transformed from a one-theatre setting to a Cineplex structure (multi-theatre). The new "Paramount Silver" Cineplex now has a total of 5 mini-theatres, each is equipped with the latest cinematic sound technology and has luxurious seating arrangement.

To attract more movie goers, "Paramount Silver" management decides to do the following.

1. Screen five different movies each day. One in each theatre, this will give movie goers more choices.
2. Launch a "Paramount Silver" Cineplex Portal. This internet portal will allow movie goers to

- a. Reserve movie tickets through the internet.

Movie goers will be able to view movie information, clips, timeslots and other information, they will be able to place reservation online.

- b. Place table reservation at restaurants that are also located at the downtown bay area.

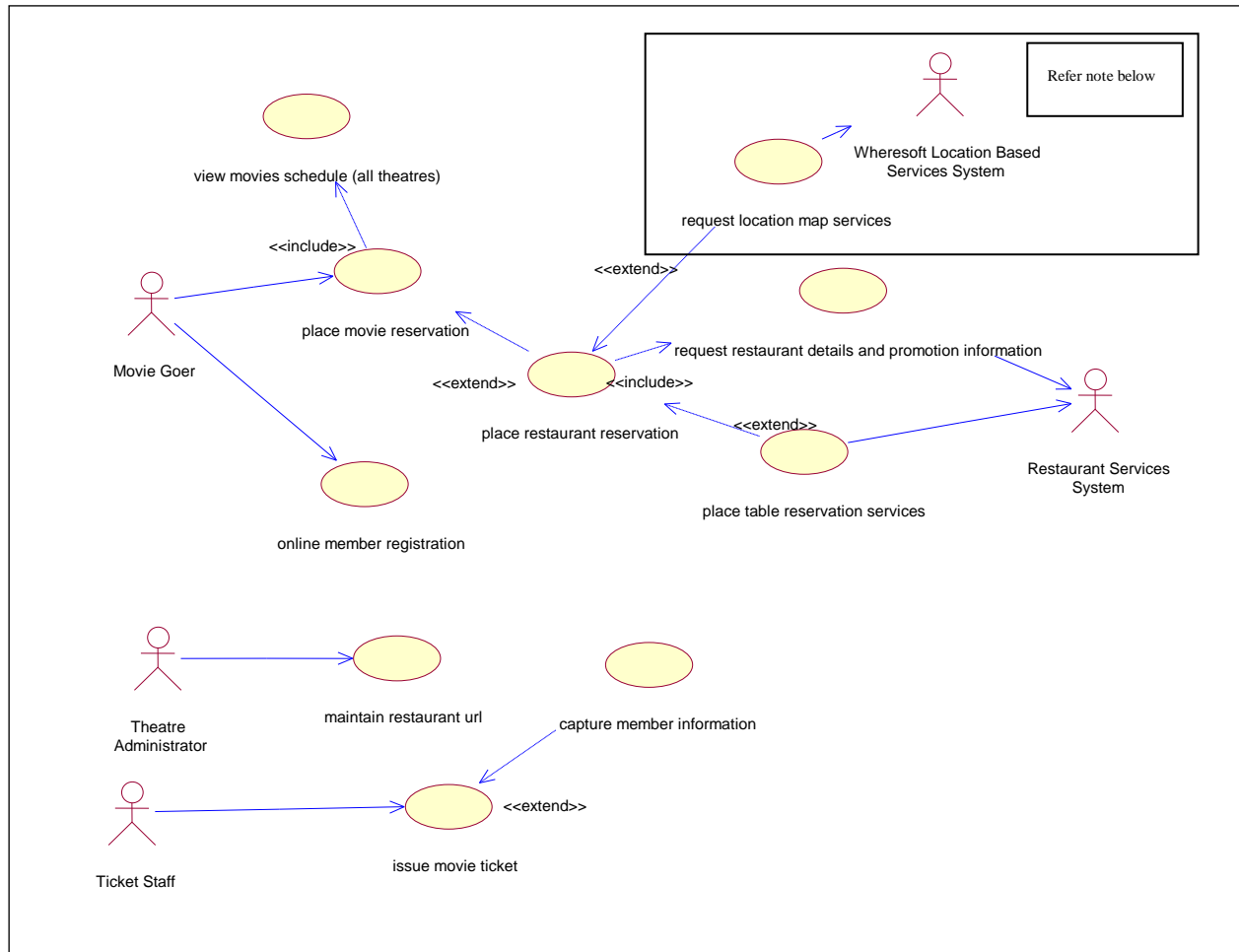
Movie goers will be able to view restaurant information, promotional offers specially given to Paramount Silver's patrons, location (map) etc. They can also place table reservations with these restuarants.

With the above two main initiatives, the management is very confident that they will be able to attract more movie goers.

Note: Restaurant Functionality is not part of this project. However, it may be reflected in static information pages if required.

2. Views

2.1 Use-Case Diagram: Online Movie Ticket Reservation



For this CA you may try any third party webservice call – maps is not necessary condition. You may do spell check, or use ISS demo services for foreign exchange or weather or locate any other interesting web service available free on internet. Proof of concept of the webservice call required.

3. Actors

3.1 Movie Goer

Patron of Paramount Silver who reserves ticket over the internet.

3.2 Theatre Administrator

Overall in-charge of the Ticket System.

3.3 Ticket Staff

Staff of Paramount Silver, who sits at the ticket counter at Paramount cineplex.

3.4 Location Based Services System (optional) – NOT MANDATORY

This is a system (web services) from 'Google/Wheresoft' which provides location information (map) to requestor.

Creating Web Services not required for this CA

Consuming web service or Service API (as in 3.4) may be attempted if interested based on self learning. WCF may be attempted if interested.

4. Use Cases

4.1 Capture Member Information

Enter Member details

4.2 Issue Movie Ticket

Get the transaction number of an online reservation from the movie goer, issue ticket, and collect payment

4.3 Maintain Restaurant Url

Maintain a list of restaurant urls. These are the restaurants that participated in Cineplex Portal

4.4 Online Member Registration

For new comer to register as member of 'Movie Lover Club', capture details such as address, date of birth contacts etc. For existing member, allow update details.

4.5 Place Movie Reservation

Place a movie reservation. Issue transaction number for this online reservation.

The system may automatically allocate the seats (seat numbers) or allow selections.

Provide print features to print reservation details (movie name, date, time, seat number, transaction number).

4.6 Request Location Map Services

Request for location information for a given address. (or any other suitable webservice) – OPTIONAL: use of wcf or third party web service is not compulsory.

4.7 Request Restaurant Details and Promotion Information

Call the restaurant system and request a standard set of information from the restaurant.

4.8 View Movies Schedule (All Theatres)

Display movies schedule for all the 5 mini theatres, over various days.

Display mini movie clips, movie reviews, PG rating and other information to help movie goer pick a movie.

The same information may be exposed as **web service** for other portals to display movie schedule of Paramount in their web pages.

5. Technology Platform

- Client (IE Browser 9.0 and above)
- Database Server SQL2012 Server or above
- Web Server (IIS) – or visual studio http server for demo
- Visual studio 2012 or above (.NET 4 or 4.5)

6. Other Information

- No online payment is required. Movie goers will have to redeem their ticket from counter staff and make payment on the spot.
- Mini Theatre Seating Layout
Assume that all 5 mini theatres have exactly the same seating layout.
- Third party web service call and exposure of your web service for third party consumption – *choice is that of the team.*

GUIDELINES:

Concepts to be demonstrated include:

- Good UI Design using Webforms, Master, CSS, Menu etc.
- A professional web site look and feel.
- Functional UI with validations and facilities.
- One complex functional use case e.g., the booking case with multi page scenario that requires session management.
- One or two simple business cases like registration or admin function with simple CRUD like operation.
- Proof of concept of authentication and access restrictions.
- Data base design.
- Using layered design using the Business Logic layer and Entity framework.