# BOOKMYSHOW

Founded as Big Tree Entertainment, but popularly known as BookMyShow, the company was founded Ashish Hemrajani, Parikshit Dar and Rajesh Balpande, all three alumni of Sydenham Institute of Management, Mumbai University. They had been working for J.W. Thompson, SPAR and Chatterjee Soros Group respectively, before they hung up their corporate boots to start BookMyShow officially in 2007. The major purpose of this start-up was to bring the concept of online movie ticketing to India.Now after its expansion, the company also offers online ticketing solutions for theaters, events, concerts and sports

Design of the system:

1. The user sends request to book a ticket for a movie to our app server.
2. Our app server calls the apis of bookmyshow cinemas and requests them to reserve the tickets. This is done so that this seat is locked for the user for say 10 minutes and no other user can reserve it.
3. Our app server gets a success response from the bookmyshow and it redirects the user to the payment page.
4. The user makes the payment with the help of the app server.
5. Our app server notifies to the bookmyshow that payment is made.
6. The bookmyshow marks the seat as booked and returns a success response to our app server.
7. Our app server notifies the user that the booking is confirmed.
8. In case the payment is made and before our app server notifies the bookmyshow the 10 minute window expires and someone else reserves the seat then we will inform this to our user and refund the amount.

Microservices uses:

This microservice based system has many advantages.

1. One is that if bookmyshow system has some issue it will affect only bookmyshow microservice and not others.
2. Failure of one microservice will have no effect on other microservices.
3. The system is extensible. In future suppose we want to handle live events we can follow the same approach of reusing or creating a new microservice template.

# Architecture of bookmyshow

