Functional Requirements:

Events API

1. As a End User/Administrator I should be able to create a new Event and add the following Detail

* Name of the event
* Total capacity
* Description
* Start Data
* End Date
* Venue
* Pricing Tiers

1. As a Administrator of I should be able to Delete existing events (Soft Delete)

* Cannot be deleted after ticket purchased , no other requirement has been considered

1. As a Administrator I should be change(update) the details of the existing event like – Venue, Start Date, End Date etc. before it goes live
2. As a Administrator I should be able to get the details of all events

List all events

1. As a Administrator I should be able to get the details of a specific event by sending the id of the event.

Ticketing Purchase API:

1. As a customer/consumer, I should be able to purchase tickets online for an Event
2. System should be able to limit the number of tickets a user can buy in a particular pricing tier, this should be handled by unique email Id
3. A consumer should have the ability to cancel the ticket before n number of days before the event, and he should get a refund message back from the service
4. A consumer should be able to view the number of tickets available the tiers
5. A admin should be able to set the tickets for an Event by pricing tiers e.g

Like – Early Bird, VIP , Silver, Gold etc.

Reporting API

1. As a Manager I should be able to see the following metrics in Reporting Services

* Revenue per Event
* Revenue per Event by Pricing Tier
* Total Revenue for all events
* Total Revenue for all events broken down the pricing\_tiers
* Sales Velocity – Tickets sold/day or Tickets sold/hour
* .