Introduction for Databases – Project1 Proposal

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General:

The application is about event exploring, where users can search for recent events happening in New York. Similar with Stubhub or SeatGeek, there are tons of events from different categories in our website and user can search, explore, compare and find tickets for the event. Besides, user can also review the place, performer and other related information about this event, and help them to make right choices.

Examples:

Entities: user(username, favolist, interests…), event(name, category, date, location, performer…), ticket(price, quantity, source…), location(coordinate, rate, review…), performer(name, age, portfolio…)

Relationship&constraints: event has several tickets, event happens at a location(exactly one), event has just one performer, user favorites several tickets/events, etc.

Data source:

We will use public APIs related to tickets information like stubhub or SeatGeek to populate our event and ticket database. Multiple APIs will use for similar events so that we can compare different tickets information between them. Then data from Yelp or Wiki will be used as source for location and performer information. So basically all data in our website will be true and come from different popular related websites.

User story:

1. Search: search in our database about events using name, keywords, location, performer, etc. So the searching will be done from multiple directions in different databases
2. Browse&Compare: tickets for same event from different source, or events happening in same location, etc. Also user can browse events aggregated by location, time, categories and so on
3. *Favorite: User can save events/tickets in their account for later use
4. *Price prediction/analyze: Given some analyze of ticket price based on recent historical data
5. *Recommendation: based on user previous search/favorite/location
6. *Review: more details and reviews for locations and performers