**ER Diagram- For Freebies for newbies**

* Till now we have designed layout pages for registration and login in both virtual and physical. By using Android studio, we have designed login and registration fragments and generated output. Based on the work flow I have drawn ER diagram using Lucid chart.
* Below Lucid chart mainly include 3 entities those are User information, Free stuff, and Event. Going forward in between Free stuff, Events we have one more entity Location.

Coming to User information we have one more entity that is session entity.

* In both Event and Free stuff entities the id is primary key and coming to Location entity, Location Zip code is primary key. In User Information Entity Username is unique so it is declared as primary key. Primary key is indicated with PK where foreign key is indicated with FK.
* Primary key means unique to that entity. A foreign key is a set of attributes in a table that refers to the primary key of another table. The foreign key links these two entities

Diagram

Description automatically generated

Diagram

Description automatically generated with medium confidence

* Based on above ERD Cardinality we have designed the relationship between entities. In between Location to Event and Free stuff the relationship is zero or Many because location may contain zero or many events or Free stuff. Furthermore, coming to both Event and Free stuff entity to Location is exactly one (one and only one) relationship because we are taking only one location in this project.
* Similarly, between User information entity to session entity and from session entity to User information entity the relationship is exactly one because one user will contain only one session ID at every login. Similarly, one session contains only one user information.