Project

# **Phase1**

**Team 13**

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We used online diagrams tool to draw EER and schema diagram.

<https://app.diagrams.net/>

**Assumptions:**

* We have considered **eid** as an primary key instead of SSN as it is not advisable to use sensitive information to map different entities in database.
* All the entities are depicted in upper-case, attributes and relations are written in lower-case.
* Each STORE has only one physical location and has plans to have more online locations (url).
* A FULLTIME employee cannot be a TEMPORARY employee or an INTERN and vice versa i.e., the constraint between EMPLOYEE and its subtypes will not be overlapping (Disjoint) and there is a total participation of EMPLOYEE and partial participation from its subtypes.
* STORE, EMPLOYEE, VENDOR, ORDER, ITEM, CUSTOMER are considered to be strong entities as there is a unique identifier for each entity.
* OLDPRICE and CONTRACT are chosen as weak entities as they cannot exist independently where OLDPRICE is dependent on ITEMS and CONTRACT is dependent on VENDOR.
* A ternary relationship **places** in between STORE, ORDER and CUSTOMER is considered assuming a customer can place order either in STORE with the help of self-checkout or place order online in STORE url.
* A VENDOR can have many CONTRACT but each CONTRACT belongs to only one VENDOR.
* Each STORE must sell at least one ITEM.
* Some ITEMS may not have OLDPRICE.

**Contribution:**

Both, Shubash Muniyappa and Sai Krishna Prateek contributed equally by coordinated in each phase of EER and schema development.