

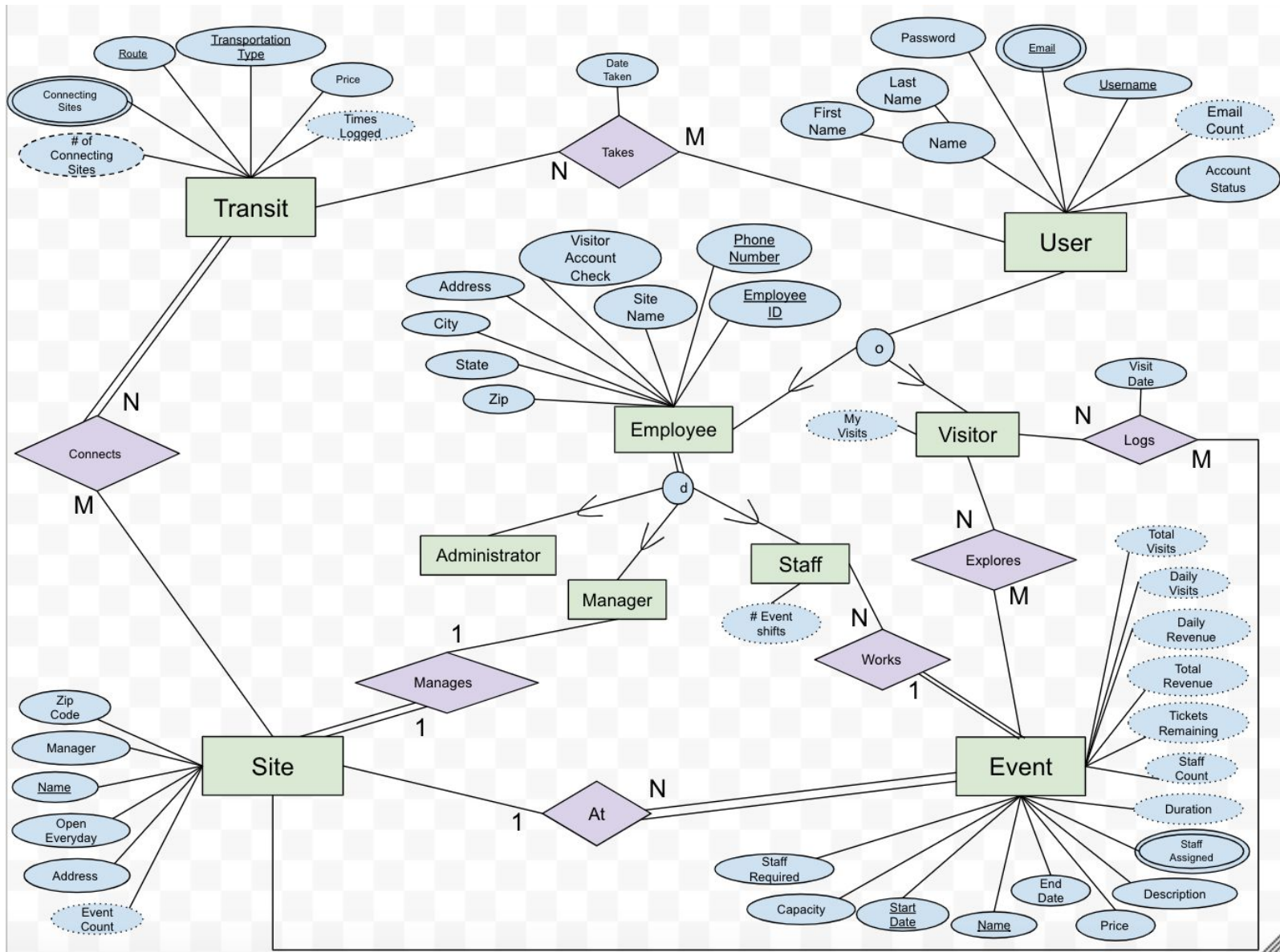


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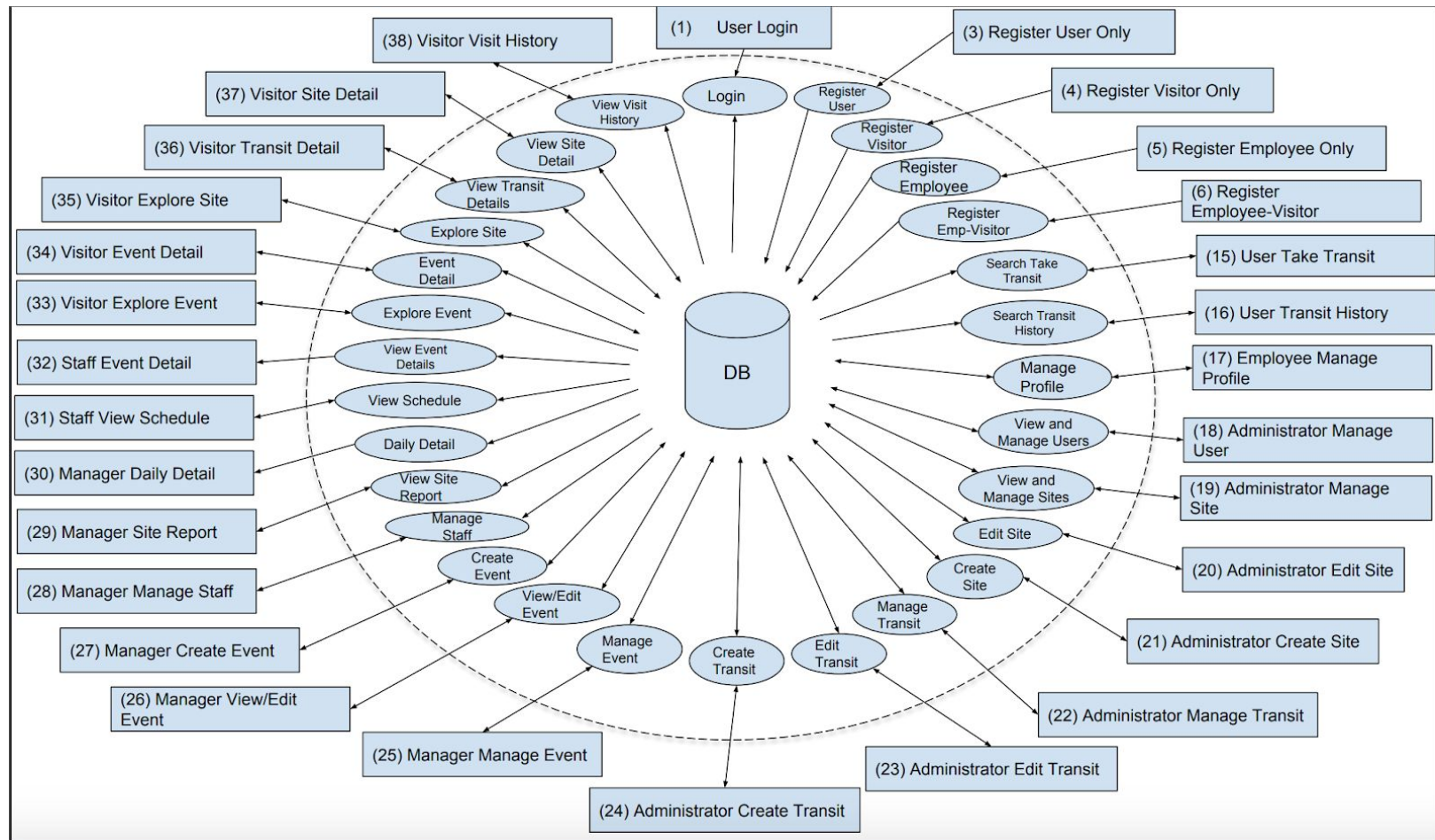
Phase [1]

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EER



IFD



Logical Constraints:

- A transit has to have at least two connecting 2 sites (number of connecting sites cannot be less than 2), if there were not two connecting sites then the transit would never be able to stop again.
- A specific staff member can only work one event at any given time, though they can work multiple events and shifts of an event, there is no way to be in two places at once. Therefore, the staff must work a single event at a time.
- A visitor (or an employee acting as a visitor) can not explore (or visit) an event in the future (one that has not happened yet).
- An event can only be created for a future time, meaning an event can not be made for the past.
- A user cannot use the database until they login to the system.
- The password and confirm password must be the same in order for the user to be registered to the database
- Only your administrator can approve and remove users in the system.
- In events, the tickets remaining attribute can never be larger than the capacity attribute.
- Administrator accounts are already created in the database, therefore the only users that are able to register are the ones that are not administrators.
- You can only take the same transit once a day. A transit would be the same route and transportation type (the composite key of the Transit entity group).

Assumptions:

- When a visitor visits an event at a particular site, the number of visits will always increment and total visits will be logged to that site. This is true because events take place at a specific sites and sites can also be visited when there is not an event.
- "My Visits" is a derived attribute for each event that the visitor attends and every site that the visitor logs (or visits). Because it is affected by both sites and events it is an attribute off of the Visitor Entity Group.
- An employee can act as a visitor, however said user will be classified as an employee when it comes to the account type. Therefore, if the Visitor Account Check - which is the visitor check box - is unchecked all of the visitor history associated with that employee is removed but the employees information will still be there because it is just changing the value of the attribute to zero.
- If an administrator removes or edits a site, then all of the events that were held at that site will also be removed or altered, along with the corresponding data (i.e. visits logged to the event, visits logged to the site, transits related to the site, transit history related to the site, etc.)
- Though "Daily Visits" and "Daily Revenue" are calculated the same way as "Total Revenue" and "Total Visits" just with the duration being 1 day, we have them as separate derived attributes so that it will be a separate column in our database which will be easier to display in the GUI.