

# Georgia Restaurant Health Inspection Database System Phase 1

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**Contributions:**

Arnav: Set up group meetings, planned and created Information Flow Diagram, created EER diagram.

Yingqiong: Created Information Flow Diagram.

Xiangtian: Created and fixed IFD and EER Diagram.

No.	Entity Types, Relationship Types, and Attributes involved	Constraint Definition1
1	Score.ItemScore Item.ItemNumber	For $1 \leq \text{Item.ItemNumber} \leq 9$ , $0 \leq \text{Score.ItemScore} \leq 9$ . For $10 \leq \text{Item.ItemNumber} \leq 15$ , $0 \leq \text{Score.ItemScore} \leq 4$ .
2	Item.ItemNumber	Item.ItemNumber is any integer from 1 to 15
3	Restaurant.RestaurantScore	Restaurant.RestaurantScore is the sum of the 15 ItemScore of restaurant's newest report.
4	Report.InspectionTotalScore	if (Report.InspectionTotalScore $\geq 75$ ) && (Item.CriticalOrNonCritical == critical) && ( for each Item, Item.ItemScore $\geq 8$ ), then Report.InspectionResult = PASS, else FAIL

**Assumptions:**

1. Inspections can occur any time for all the restaurants (including the same day but different time).

2. Restaurant can have multiple permits (i.e one that is about to expire and another ones that expires at a later date). Only the latest one will be shown.
3. Customers can complain about any number of restaurants of their choice any number of times within a day.
4. Customers can only see the most recent inspection report's date and score for a particular restaurant.
5. Report.Rates can happen only when a new report is created.
6. Inspector's info has to be entered in database before conducting inspections.
7. Restaurant operator can view all info of the restaurants that he/she operates.
8. Health inspector can view all the inspections he/she conducted.
9. For each restaurant, multiple health permits can be in the database associated with that restaurant, but only the permit with the newest expiration date will be displayed.
10. A restaurant operator can be in the system and not currently operating any restaurant. That also means a restaurant can be shut down.
11. A restaurant's phone number and a registered user's phone number and a customer's phone number can be the same.
12. Restaurant.RestaurantScore is updated every time Report.Rates happens.