


Taste Genius- Data Driven Recipe Generator  
Milestone: Logical model (Relational model)  
(EER and UML model)  
Group 16

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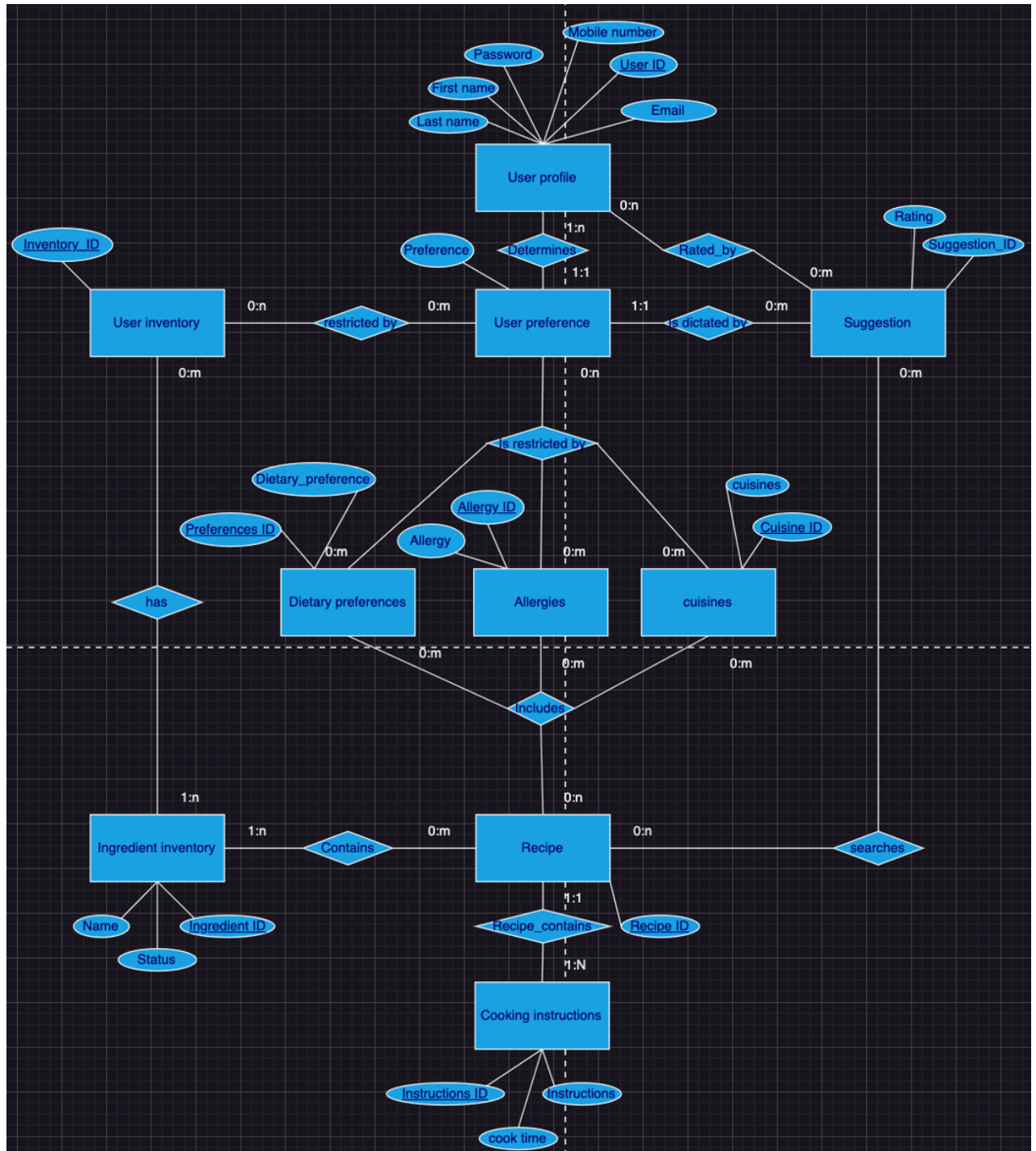


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## EER Model:



### Recipe genius- Logical model (Relational model):

- **User\_profile**(User\_ID, First\_name, Last\_Name, password, Mobile\_number, Email, *preference\_ID*(NOT NULL) )
- **User\_preference**(Preference\_ID)
- **Is\_restricted\_by**(Allergy\_ID, Cuisine\_ID, Dietary\_preference, Preference\_ID)
- **Cooking\_instruction**(Instruction\_ID, Cook\_time, Instructions, *Recipe\_ID*)
- **Recipe**(Recipe\_ID)
- **Contains**(Recipe\_ID, Ingredient\_ID)
- **Ingredient\_inventory**(Ingredient\_ID, Name, Status)
- **Has**(Ingredient\_ID, Inventory\_ID)
- **User\_inventory**(Inventory\_ID)
- **Dietary\_preference**(Dietary\_preference\_ID, preference)
- **Allergies**(Allergy\_ID, allergy)
- **Cuisines**(Cousine\_ID, Cousine)
- **Includes**(Dietary\_preference\_ID, Allergy\_ID, Cousine\_ID, Recipe\_ID)
- **Searches**(Recipe\_ID, Suggestion\_ID)
- **Restricted\_by**(Inventory\_ID, preference\_ID)
- **Suggestion**(Suggestion\_ID, rating, *Preference\_ID* )
- **Rate\_by**(User\_ID, *rating*)

#### Limitations:

- The relationship “Has” fulfills 3 out of 4 cardinalities.
- The relationship “Contains” fulfills 3 out of 4 cardinalities.
- The accuracy of the model heavily depends on the quality of the input data. Inaccurate or incomplete user profiles, ingredient inventory, or dietary preferences can lead to incorrect recommendations.