



**School of Computer Science, Engineering and Application**  
**BCA Third Year Semester-V (Batch2021)**

Project Conceptual Design:

Flowchart, ERD, DFD, UML and Activity diagrams

**Title of Project: Food Donation App**

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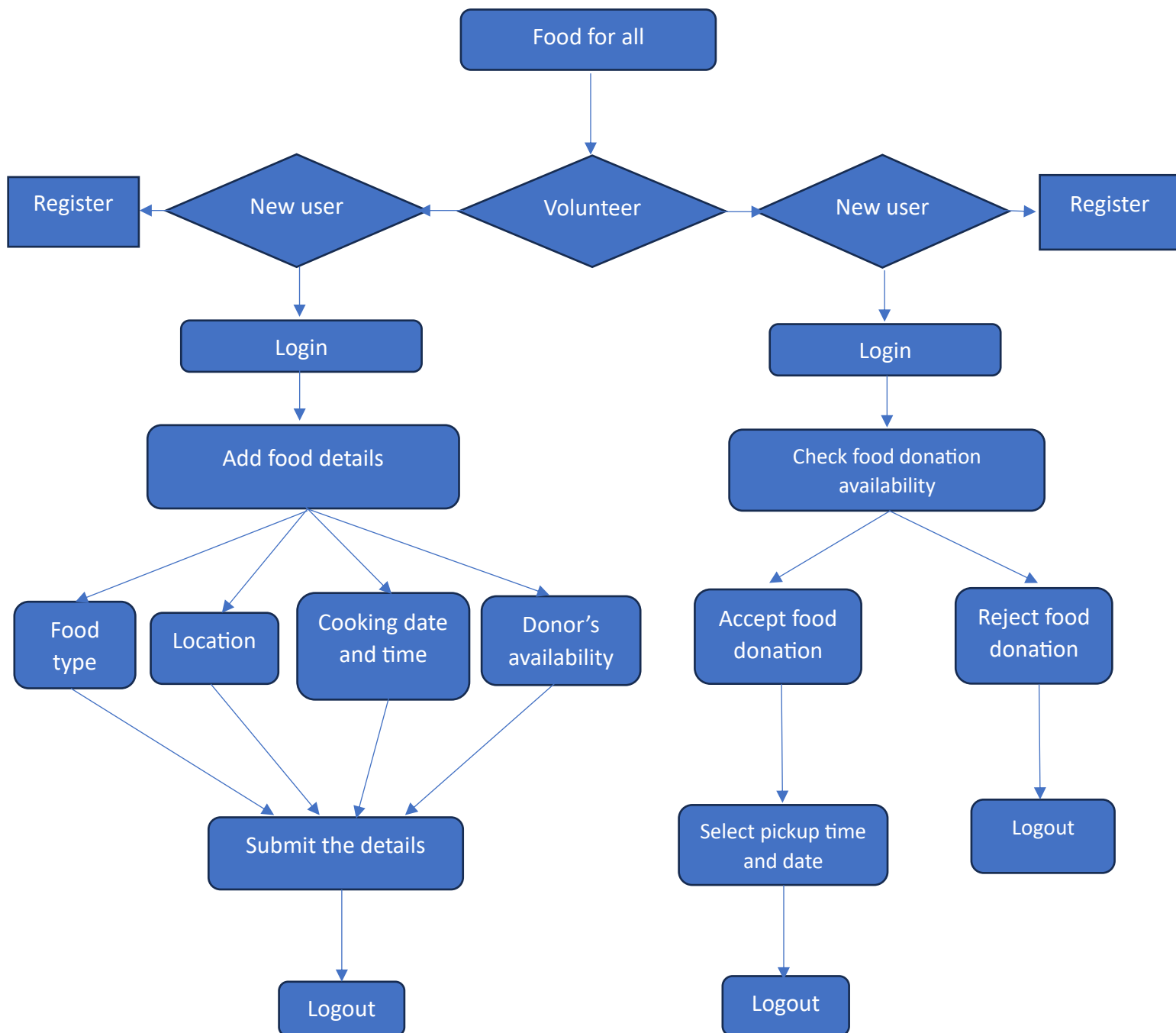
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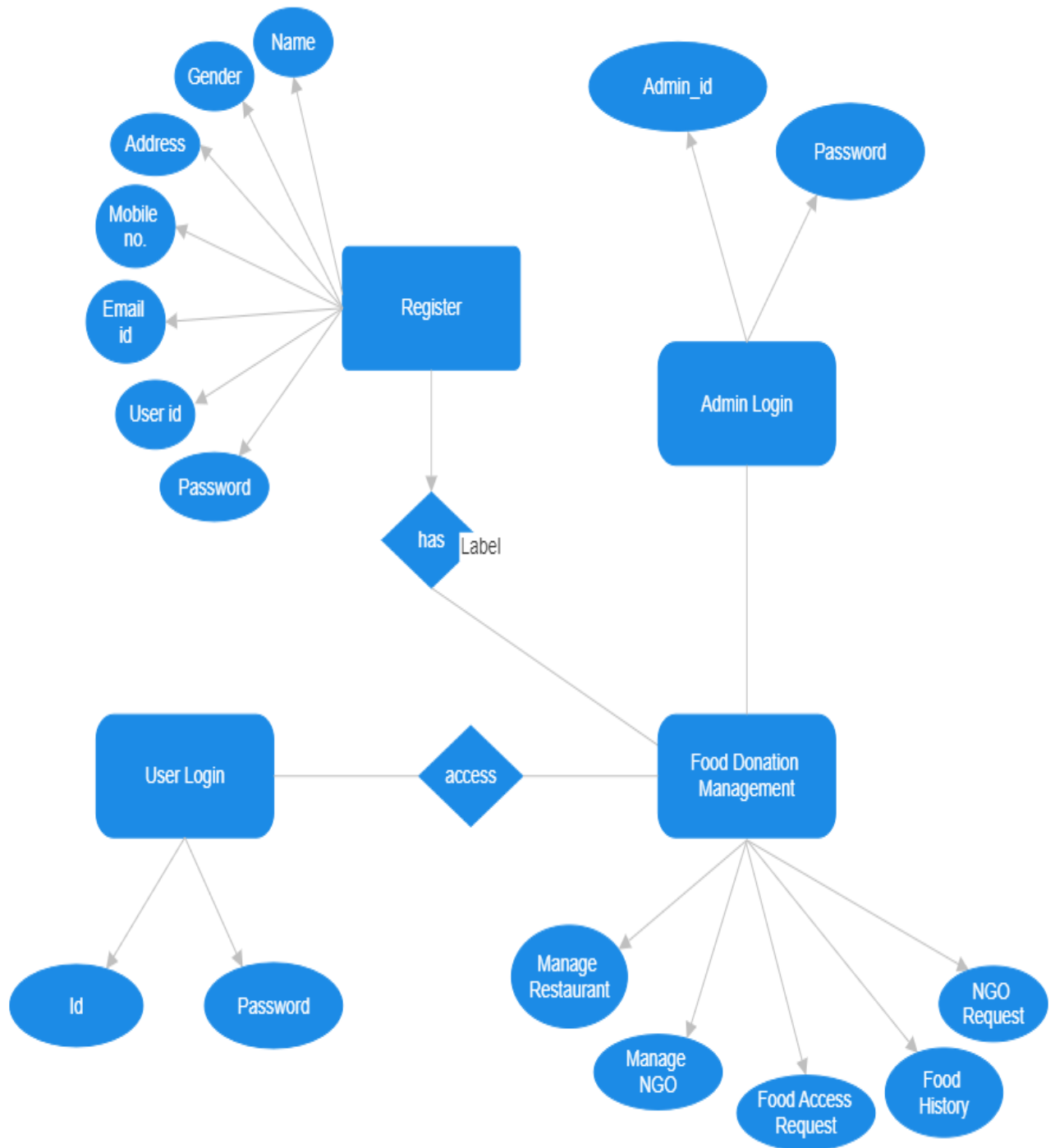
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# 1 Flowchart

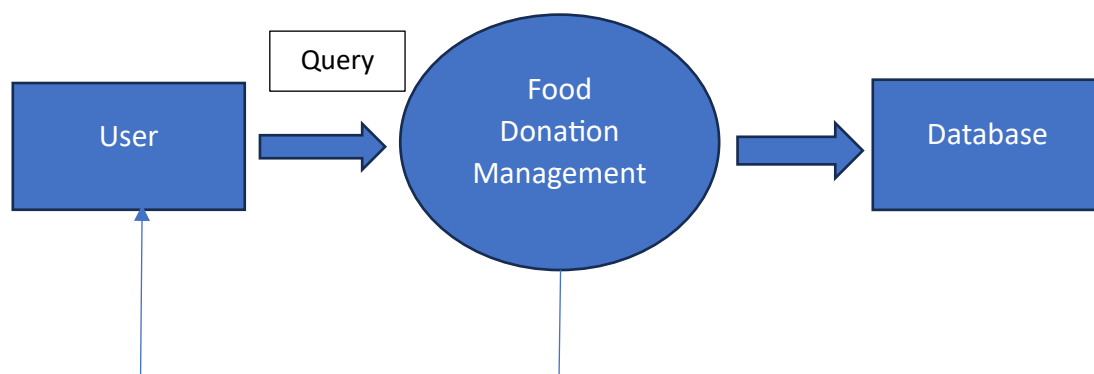


## 2.E-R Diagram

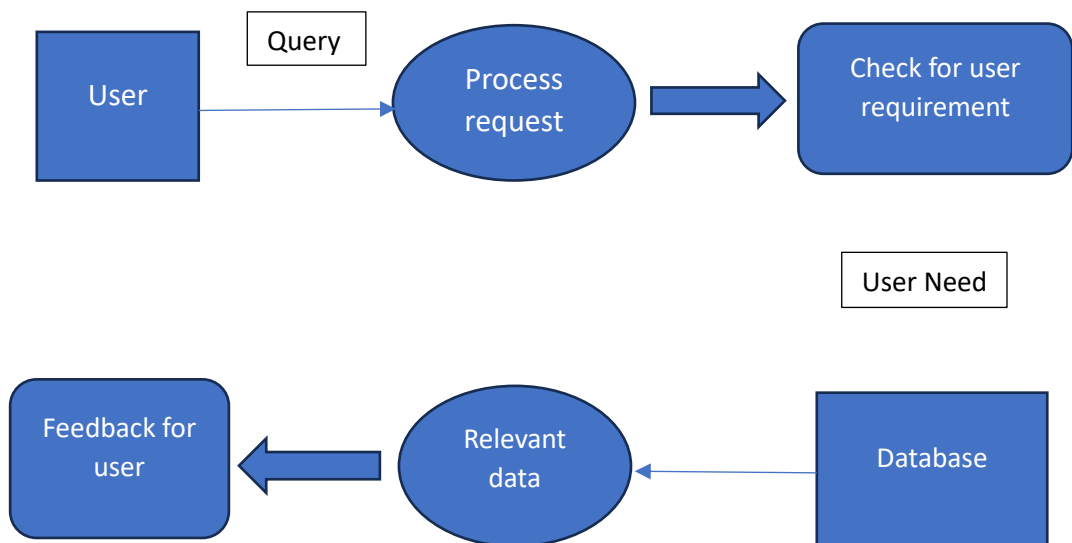


### 3.Data Flow Diagram

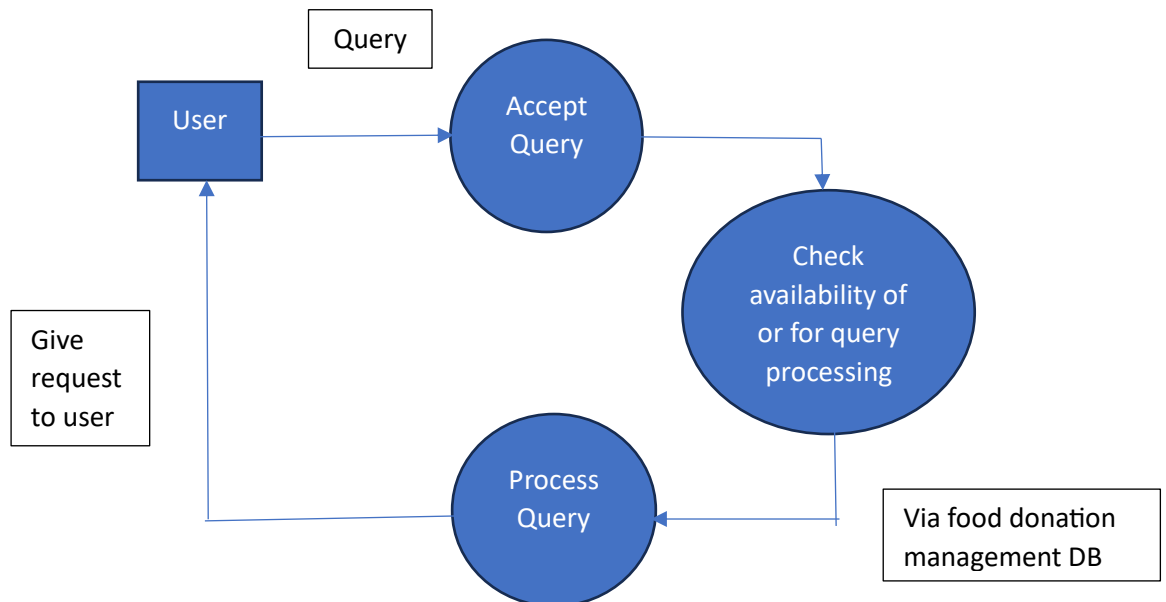
1. A Data Flow has only one direction of flow between symbols. It may flow in both directions between a process and a data store to show a read before an update. The later it usually indicated however by two separate arrows since these happen at different type.
2. A join in DFD means that exactly the same data comes from any of two or more different processes data store or sink to a common location.
3. A data flow cannot go directly back to the same process it leads. There must be at least one other process that handles the data flow produce some other data flow returns the original data into the beginning process.
4. A Data flow to a data store means update (delete or change).
5. A data Flow from a data store means retrieve or use.



Level 0 DFD



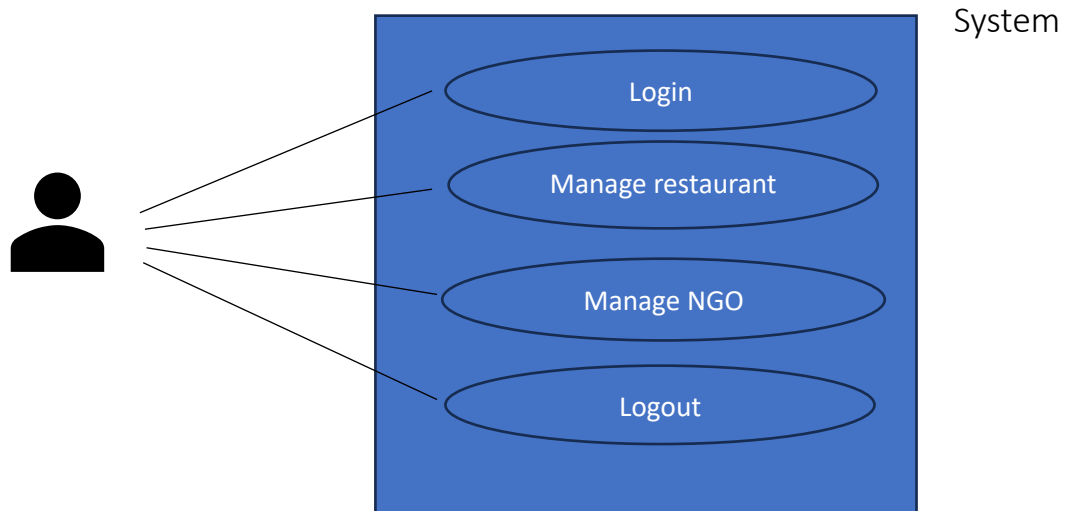
Level 1 DFD



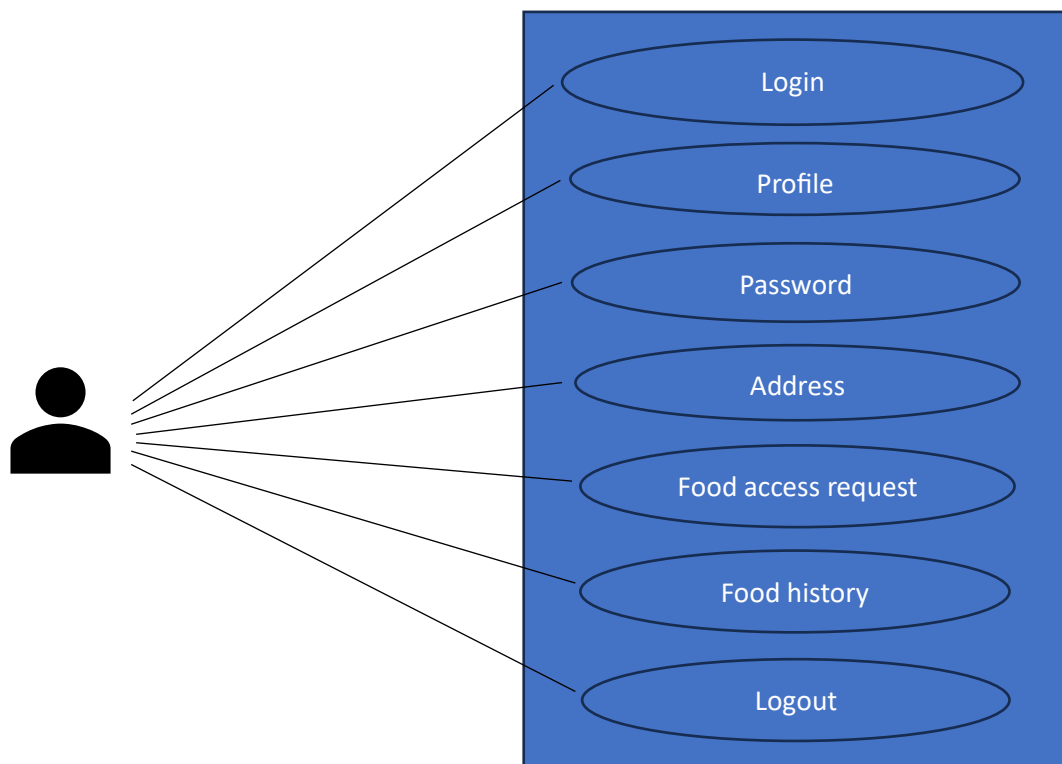
Level 2 DFD

## 4.Unified Modelling Language (UML)

### Use case diagram

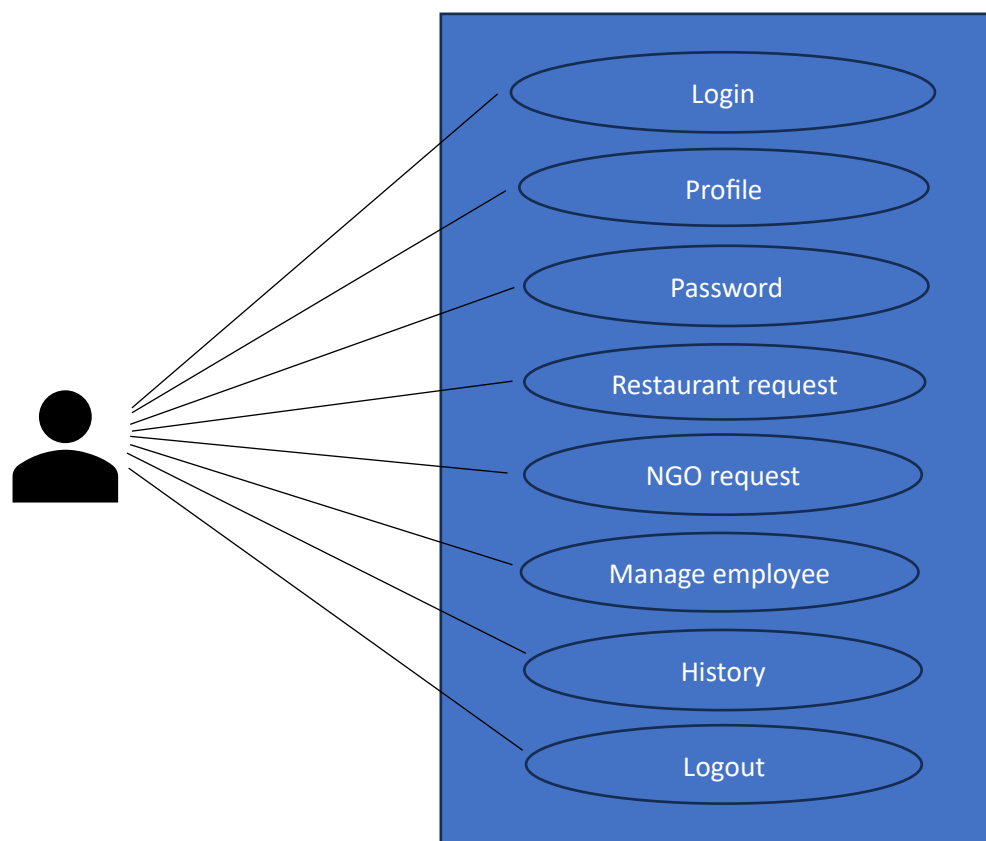


Use Case Diagram of Admin



Use Case Diagram of Restaurant

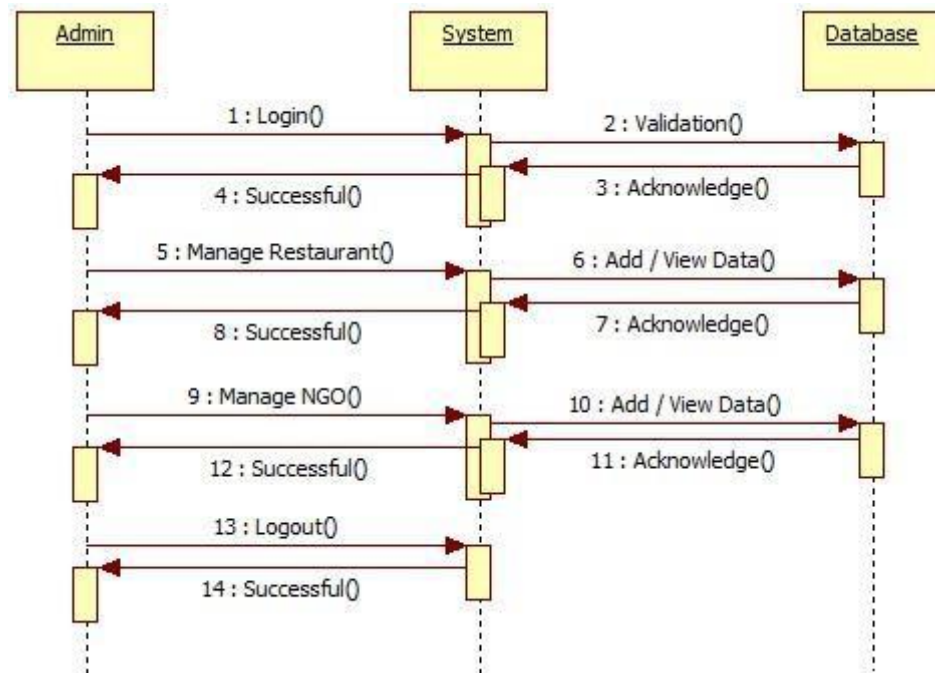
The user that is donor first has to register to the application and authenticate the phone number using OTP (one time password). The user has to login giving the credential like email and password that will be validated. The user that is donor as to enter the details to donate the food like name ,phone, email and address and description of the food and in the end donor can logout awhen they wish.



Use Case Diagram of NGO

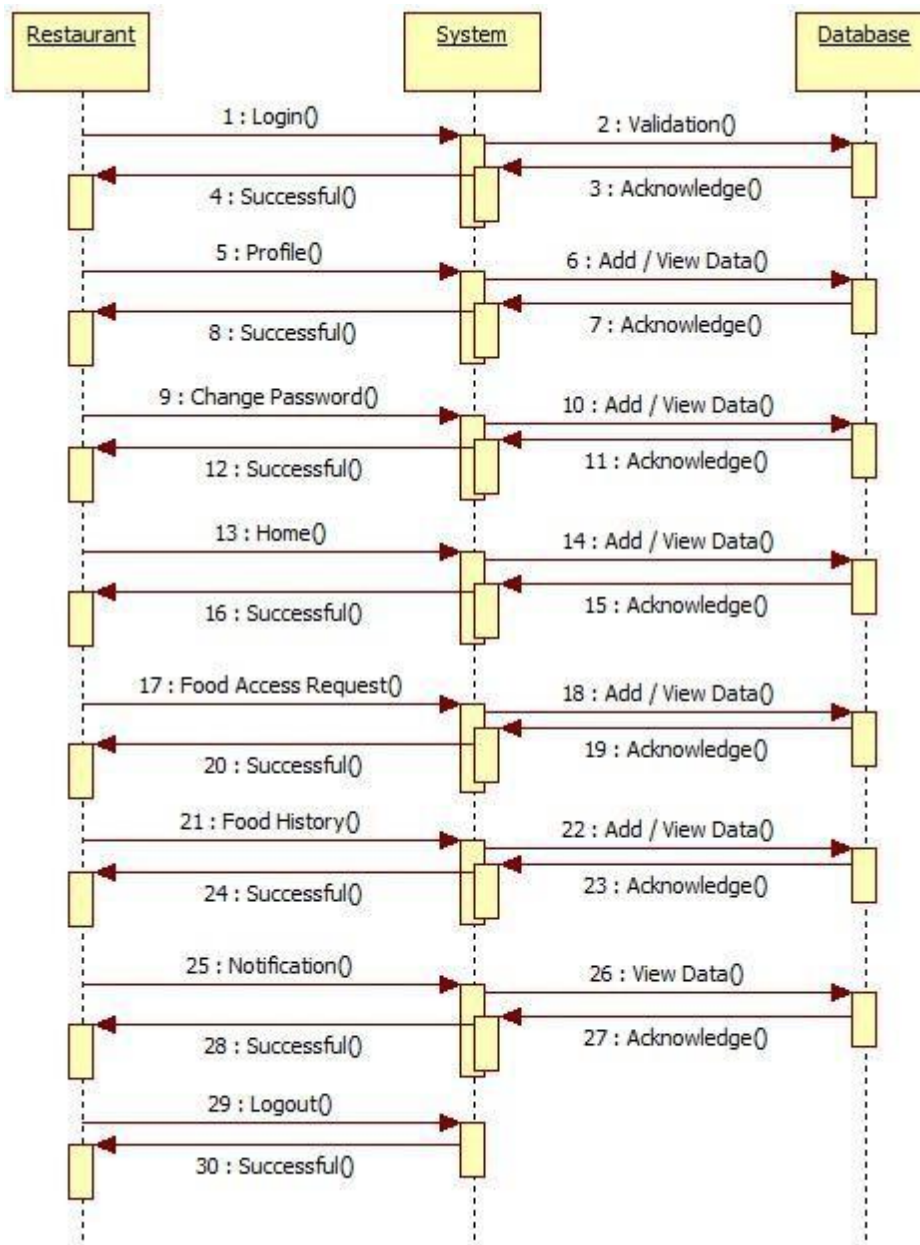
The user that is receiver first has to register to the application and authenticate the phone number using OTP (one time password). The user has to login giving the credential like email and password that will be validated. The user that is receiver as to enter the details to receive the food like name ,phone, email and address. The donor details will be displayed in food map. The receiver has to see the food map and contact the donor using E-mail. The receiver can logout when they wish.

## Sequence Diagram

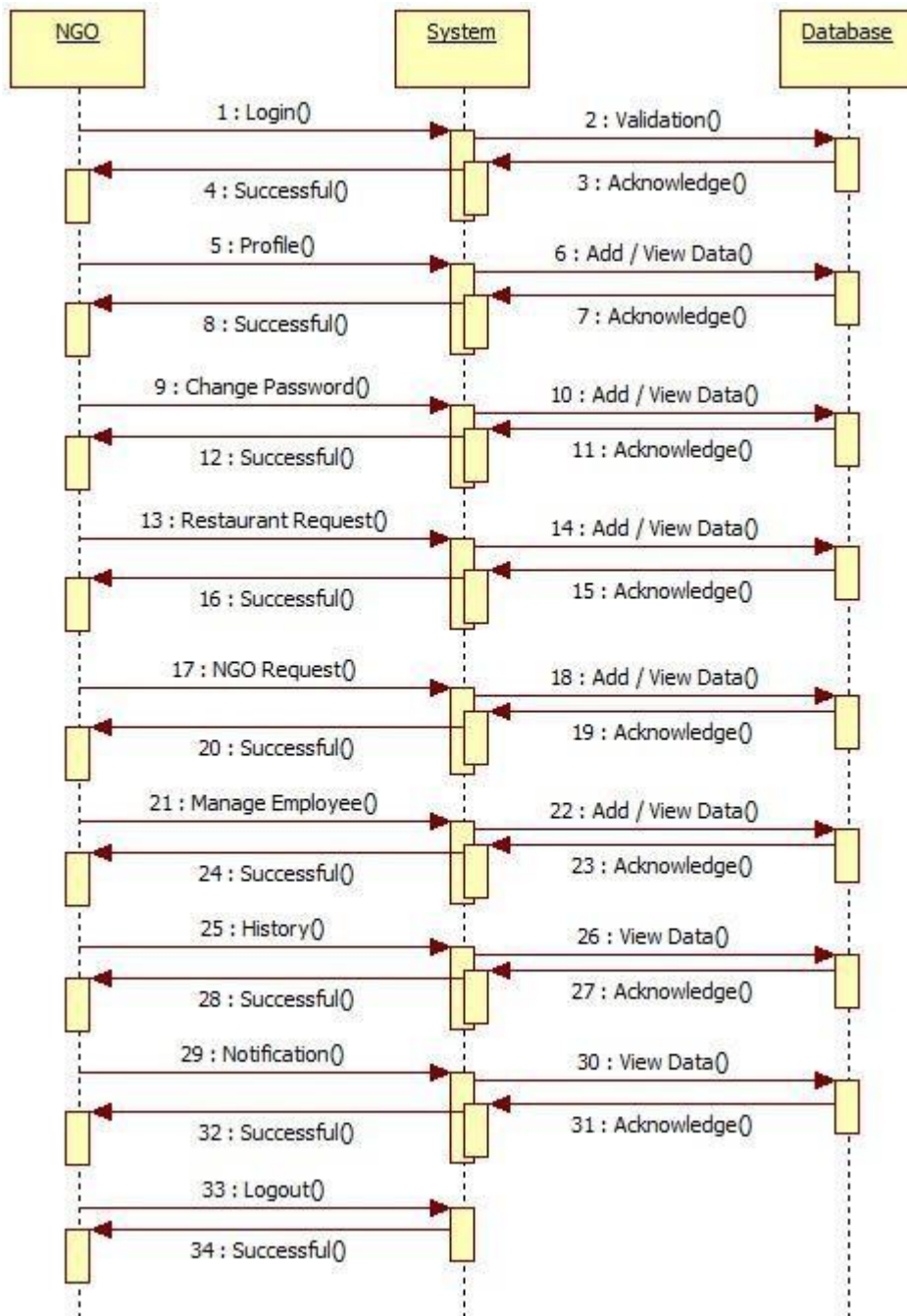


**Fig. Sequence Diagram of Admin**



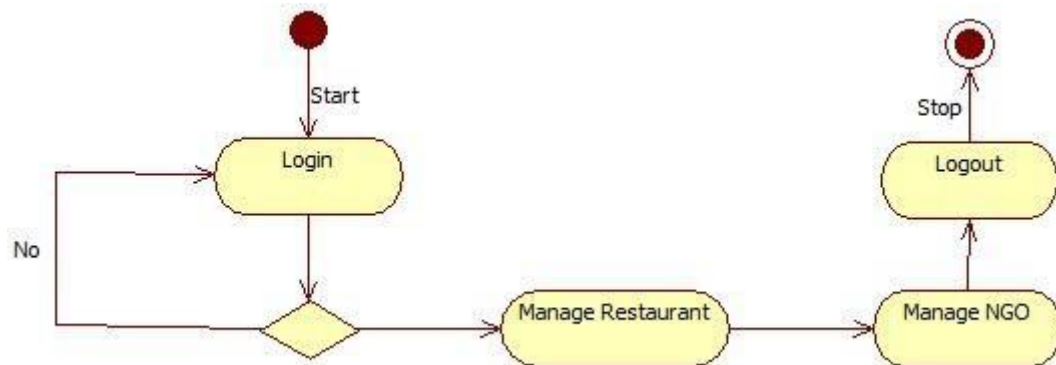


**Fig. Sequence Diagram of Restaurant**

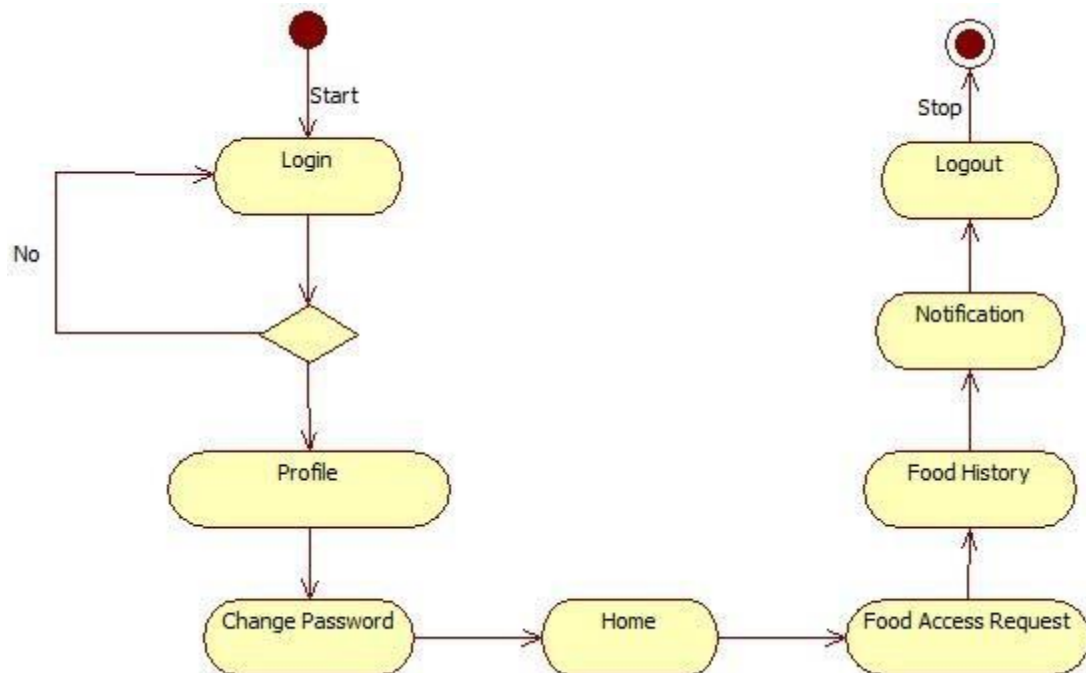


**Fig. Sequence Diagram of NGO**

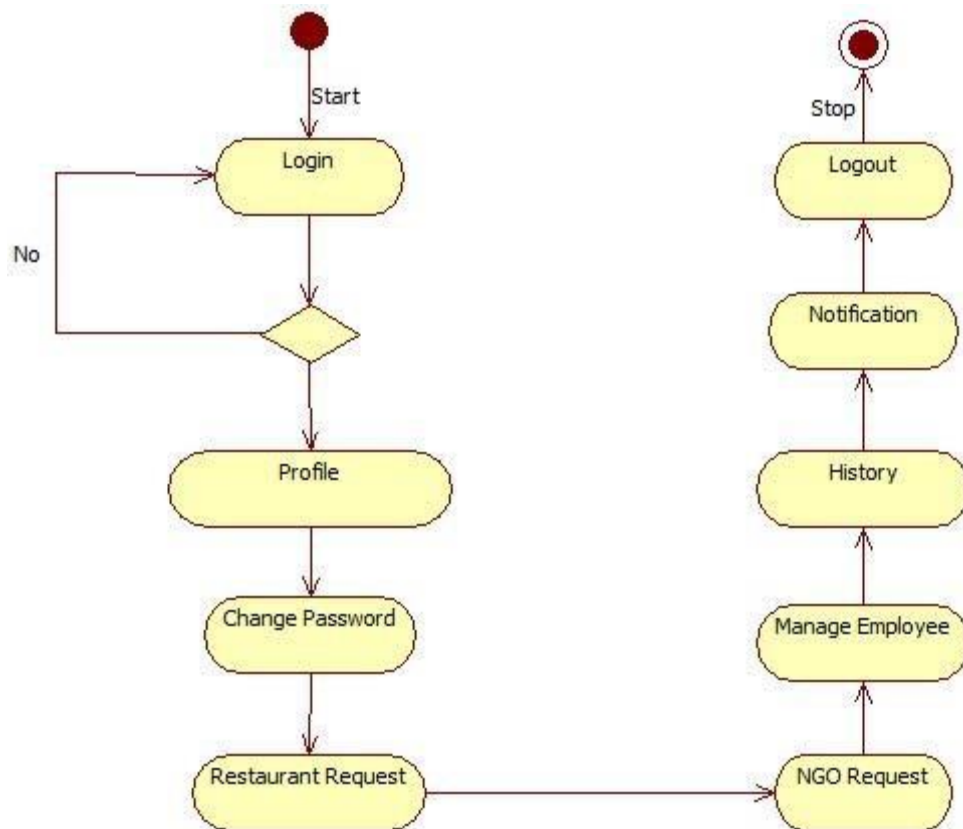
## Activity Diagram



**Fig. Activity Diagram of Admin**



**Fig. Activity Diagram of Restaurant**



**Fig. Activity Diagram of NGO**