**Mathematical model.**

Input

U={Orphanage, Hotel, Appriori, NGO, User, admin}

Where

O = Orphanage

H = Hotel

A = Apprioiri,

N= NGO

U=User,

A = Admin.

* H,N,U and O
* A = {A1,A2,A3……An}

Here sub graph appriori applied on loaded data set to find frequent item set.

* S = {S1,S2,S3,………..Sn}

Sub graph mining rule applied to output of appriori and get the appropriate detection.

* U = { U1,U2,U3……..Un}
* A = {A}

Output

O = {Detected or Not }

On the basic on the above procedure system will detected. food available or not.