

CS-573

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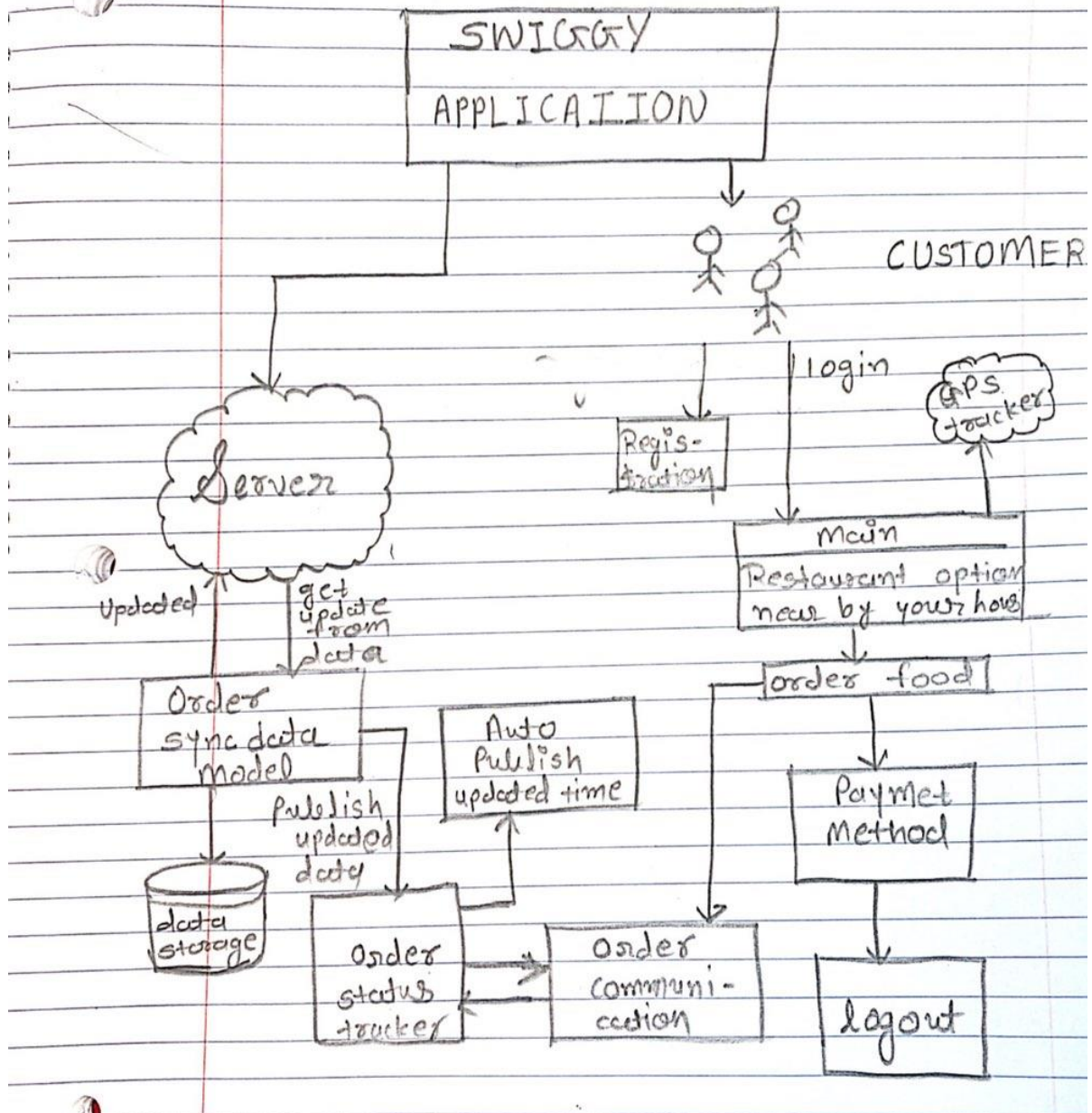
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Assignment: -1

TOPIC: -THREAT – ASSET MATRIX FOR A SWIGGY NETWORK DIAGRAM.

In swiggy application is very famous application for food delivery. In that customer can order food from any restaurant near by their house. Here, customer can find restaurant within 30 min distance from their house and order food from that. Also, customer can see how much it will take for the food preparation as well as food delivery time with tracker. I made one diagram for the swiggy network to understand easily.

SWIGGY NETWORK DIAGRAM



I found some element which will help me to define my asset.

Software: - software is useful for user to interact with computer and connect with hardware.

Database: - in that it will store each and every data in the database

Customer: - user can access the application

• Threat-Asset Matrix

Estimated probability and consequence rating value

- 1 = very low
- 2 = low
- 3 = medium
- 4 = high
- 5 = very high

Estimate risk value base on color

18-25	12-17	5-11	4-1
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Estimated risk value:- estimated probability * estimated consequence

Asset	Description	Confidentiality	Integrity	Availability	Theft
Developer team	Effective Coding For the application should be reliable	P =1 C =4 ERV =4	P =4 C =5 ERV =20	P =5 C =5 ERV =25	P =2 C =3 ERV =6

Communication system	This system help to communicate with restaurant	P =3 C =5 ERV =15	P =4 C =4 ERV =16	P =3 C =3 ERV =9	P = 2 C =4 ERV =8
Secure control system	This system help use to secure our application	P = 4 C = 5 ERV =20	P = 4 C = 5 ERV = 20	P = 3 C =5 ERV = 15	P = 2 C = 5 ERV = 10
Customer	Customer order the food from swiggy	P =1 C =2 ERV =2	P =1 C =3 ERV =3	P =2 C =2 ERV =4	P =1 C =2 ERV =2
Database Team	This team will responsible for the data storage	P =1 C =2 ERV =2	P = 1 C =2 ERV =2	P =2 C =2 ERV =4	P =1 C =2 ERV =2
Computer	It will use in th computer also	P =1 C =5 ERV =5	P =1 C =5 ERV =5	P =1 C =5 ERV =5	P =1 C =5 ERV =5
GPS tracker	It will help to track the person place	P =1 C =2 ERV =2	P =1 C =5 ERV =5	P =1 C =2 ERV =2	P =1 C =5 ERV =5
Payment Method	It will display option.	P =1 C =2 ERV =2	P =1 C =2 ERV =2	P =1 C =2 ERV =2	P =1 C =2 ERV =2
Authentication	It will help to identify person who use this application that person trustworthy or not	P =1 C =2 ERV =2	P =2 C =2 ERV =4	P =2 C =2 ERV =4	P =2 C =1 ERV =2
Phone	User can use this application via phone	P =3 C =1 ERV =3	P =2 C =1 ERV =2	P =2 C =1 ERV =2	P =4 C =1 ERV =4
Tablets	User can use this application via tablets	P =2 C =3 ERV =6	P =2 C =3 ERV =6	P =2 C =3 ERV =6	P =3 C =3 ERV =9
Automated time updated system	It will update how much time it will take to prepare the food	P =2 C =4 ERV =8	P = 3 C =3 ERV =9	P =2 C =3 ERV =6	P =4 C =5 ERV =20
Networking system	It will help to connect different PCs.	P =3 C =5 ERV =15	P =2 C =5 ERV =10	P =2 C =3 ERV =6	P =2 C =5 ERV =10

Asset	Confidentiality	Integrity	Availability	Theft
Developer team	In that probability is very low and there are much consequence of that as they have to fix the code as try and error we can not give full trust worthy we have to test that one first then we can decide it is trustworthy	In integrity both possibility and consequences of developer team will be high because we can not decide it will their task on time.	In that estimated risk will be high because we can not decide developer team will available on time	Probability and consequences will be medium because they both have some theft while coding
Communication system	In that probability is medium as it can easily communicate however consequence will be high as it can be brake the data	Probability will be high as it work very accurately however consequence will be very as the result might not be accurate .	In availability , probability will be medium and consequence will be medium as it might be not available on time	Theft protected with strict rules but consequence will be very high because it has sensitive data of the system.
Secure control system	In that probability have high as it from unauthorized user. Where consequences will be very high as target point of the application	Probability is high as it from non trust worthy user. Where consequence will very high because it might be go wrong.	Medium probability as it may be available but consequences will be very high as it may not available on time	Low probability theft where consequence will be very high as it play main role in the system.
Customer	Probability is very low as it confidential. However, low consequence as it is trust worthy	Probability is very low as it accessible. However, low consequence as it is main part	Probability is low as it is available . However, low consequence as it is trust worthy	Probability is very low as it confidential. However, low consequence as it is trust worthy
Database Team	In database it will store the all the data of the customer so if anyone wants to access that	It is depend on credential that in which user you access you are in the application	It is also depend on credential access which user access the website .	Theft will be very low here because it has credential access

	data so they need access from the user	That is why risk will be very low		
Computer	Unlikely when unauthorized user access the website on that time it will be very danger for the system	When someone change something in their website on that time consequences will be very high.	Probability will be low but consequences will very high because it may not available on time	It contain sensitive data so consequences will be very high
GPS tracker	Probability will be very low and consequence is also low as it is very secure	Here probability will be very low and consequences is very high as it give unexpected result	Probability and consequence will be low as it will available all time	Here probability will be very low and consequence will have very high as it is main part of the system
Payment Method	Both probability and consequence will be low it has high security payment method	Both probability and consequence will be low it has high security payment method	Both probability and consequence will be low it has high security payment method	Both probability and consequence will be low it has high security payment method so it does not have any fraud
Authentication	Both probability and consequence will be low it has high security payment method. As it is very authorize system	Both probability and consequence will be low it has high security payment method as well as secure data access	Both probability and consequence will be low it has high security payment method and available on time	Both probability and consequence will be low it has high security payment method
Phone	Medium probability as it set strong password and when someone access on that they can not be so consequences will be very low.	Low probability and consequences because when someone trying to use the account on that time they can not because of the security	Very low probability and consequence as they unavailable	High probability as they can move anywhere and very low consequence as they do not have any sensitive data.
Tablets	low probability as it set strong password and when someone access	Low probability and high consequence	On the emergency time it might not be	High probability as they can move anywhere and

	on that they cannot be so consequences will be very low.	because it might behave wrong way	available so low probability and high consequence	very low consequence as they do not have any sensitive data.
Automated time updated system	Low probability and high consequence as data might goes wrong and it may contain dangerous	Medium probability and consequence because access of the system will be automated	Low probability and medium consequence as it is not available on time	High probability and consequence because it may be dangerous for the system
Networking system	Medium probability and very high consequence as it is not trustworthy to use it someone might be take our data.	Low probability and high consequences as it may contain dangerous effect to application	Low probability and medium consequences as it may not available on time.	Low probability and high consequences as it may contain dangerous effect to application because it is main part of the system.

Asset	Estimate total risk
Secure control system	65
Developer team	55
Communication system	48
Automated time updated system	43
Networking system	41

Tables	27
Computer	20
GPS tracker	14
Authentication	12
Phone	11
Customer	11
Database Team	10
Payment Method	8