Start here. (a) i

An RFID tag is a wireless identification tag that identifies a user by using radio waves.

ii

Transaction logs are very important in a TPS as they record all the transactions as they occur and once they are finished. If a transaction is corrupt you can refer to the ~~the~~ ~~server~~ logs which contain the data/information of that transaction.

(b) i

An extremely fast response time is required for example, ATMs. There must be real time display aswell to allow for instant confirmation of a transaction to be displayed. There must also be an appropriate mass storage and retrieval site to allow for a large ammount of transactions to be stored.

ii

Batch processing can be more effective than real time because of the personal aspect. A human is able to overlook the transaction be it is processed for any errors where as real time, if there is an error in the system, information could be lost on the spot. For example when processing a chech, it is overlooked before it is processed and feedback can be given instantly whereas

real-time transactions can take days to ~~occur.~~ discover a fault. Batch processing can also be less expensive than real-time processing.
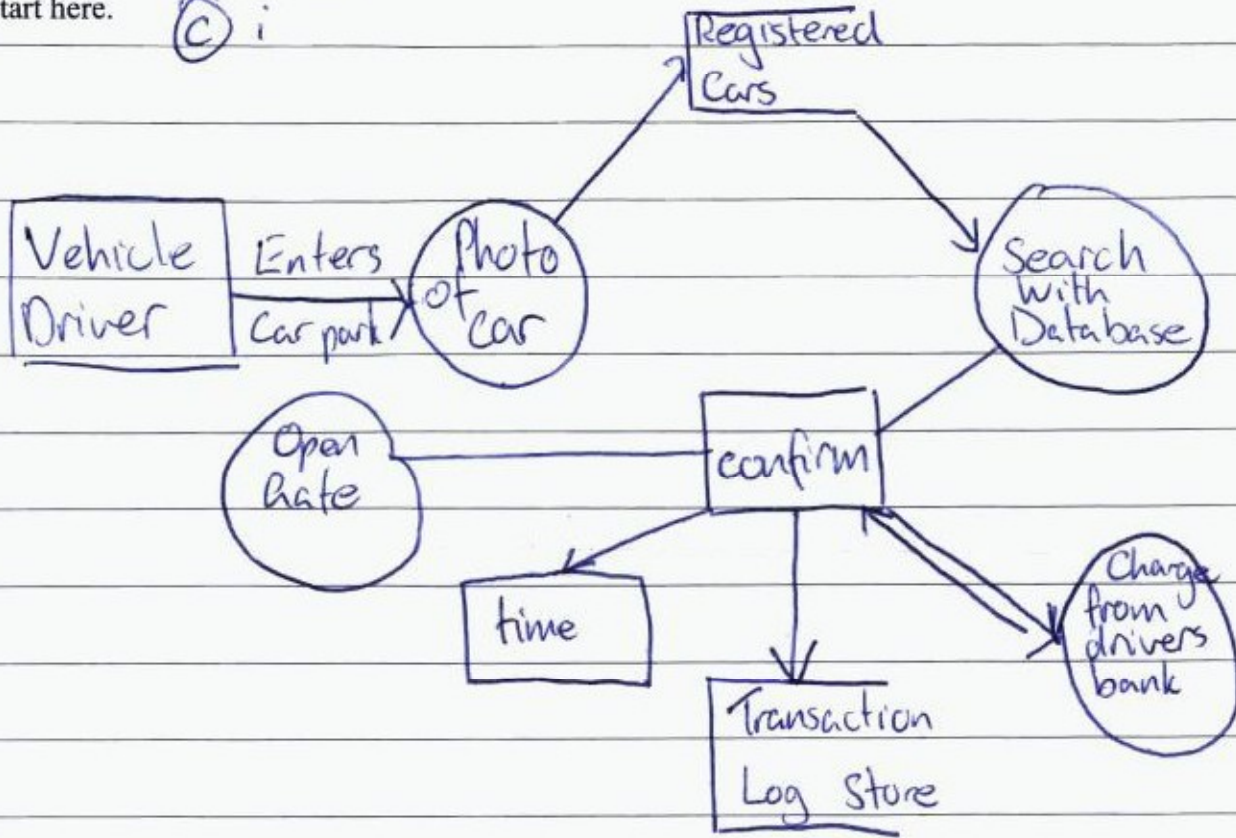
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Start here.

(c) i

Registered Cars

Vehicle Driver — **Enters Car park** → (Photo of car) → **Registered Cars**

(Photo of car) → (Search with Database)

(Open Rate) — **confirm**

(Search with Database) → **confirm**

confirm → **time**

confirm → **Transaction Log Store**

confirm → (Charge from drivers bank)

ii

The information is collected by the participants who submit their details into the system including license plate, first and last name, preffered bank details and other registered vehicles. The camera takes a photo which collects the appropriate data for verification and validation.

The information of the account holder is stored on the database and should be regularly updated using off-site storage. The details of the date and time upon entry and exit

of the driver should be stored in the data-base and there should be separate data stored for the amount charged each month. This information needs to be retrieved if the driver chooses to obtain his history of transactions. The details of the car should also be stored as should its license plate and a sample photo that the camera can cross-reference with.

iii

The changing nature of work is forcing more people out of their jobs due to increasing technologies. A future technology may include thumbprint identification. This allows superior security measures that can not be breached as easily as changing your number plate to match a certain car. Voice recognition software is also a future technology that can improve security measures and still allow for users to easily gain access to what ever it is they have access to. Biometric profiles to identify a person by his facial qualities will also improve security measures. All these will be impacted from the increasing technologies and because of this, employees will find it harder to get jobs.

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