Start here.

a i) it is a tag which allows data/information to be accessed on an item with the interaction of radio frequencies (wireless scanning, etc)

ii) The transaction log records all the information the ~~from~~ ~~FPS~~ TPS undergoes including the transactions that have taken place throughout the period of operation. In the case of FPS failure, the recovery system can be implemented loading data from the transaction log to update the recovery system to its most ~~recent~~ recent.

b i) Air line reservation system

- Requires rapid response ~~as~~ during booking flights as double booking from two users will create problems
- Needs to produce an immediate output to ensure the confirmation of the booking.

ii) Batch processing could be the best solution when processing transactions. If a system crash were to occur then ~~it~~ there ~~would~~ is a larger possibility of repairing the system better than real-time processing. Since batch processing, requires transactions to be first stored in a group (batch) and processed at a later time, there is sufficient time in order to allow effective repairments to be made

before processing the batches. Further more, it is cheaper than real time and major damages ~~can~~ will not occur to the transactions as they can be safely stored before processing

c1) Processes

Car entry/exit

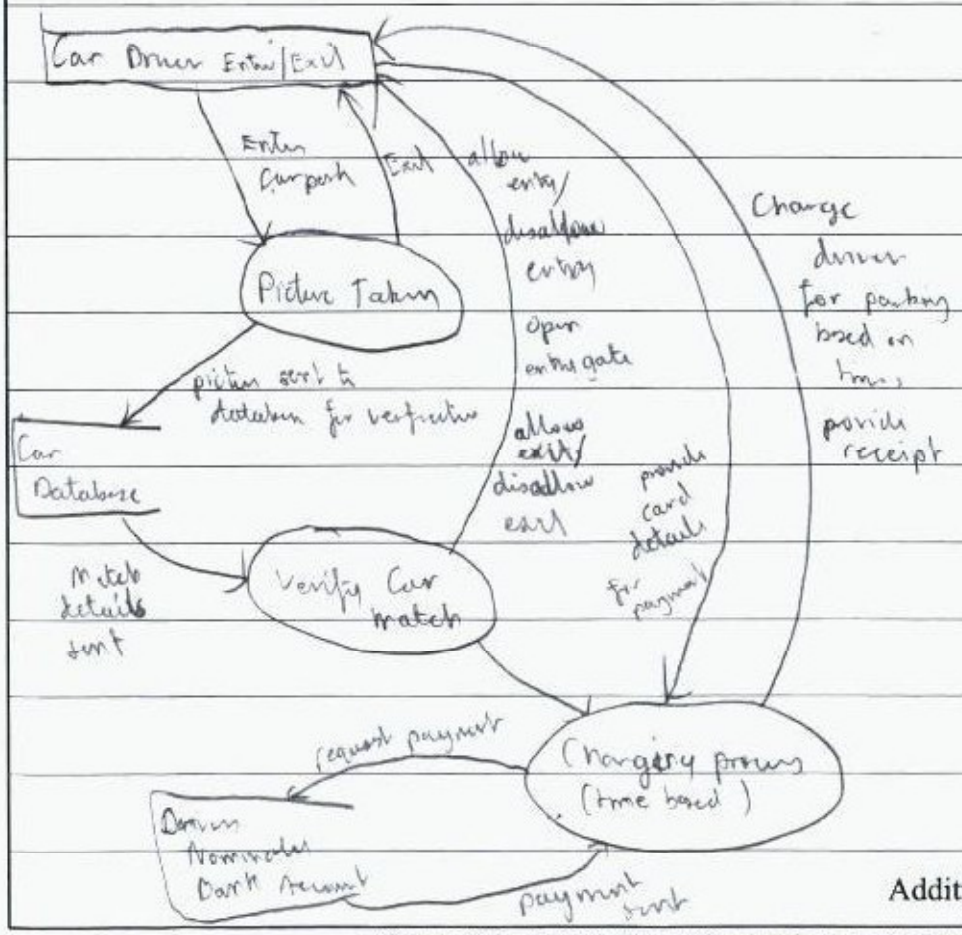
Take Picture

Compare plate no. to database

Verify match

Charge driver according to time

Access bank

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ii) Collecting

- Picture of the car is taken
- License plate details collected
- Payment details collected

The collection process involves ~~colle~~ taking a picture of the car collecting registration plates ~~as~~ numbers as well. Payment details are also collected such as card details, bank, etc.

Storing / retrieving

- Stores picture of car/cars
- Store transaction in transaction log
- Store data on plate numbers

Storing involves taking a picture of a car/cars, ~~collecting~~ detailing ~~payment~~ payment ~~details~~ transaction, storing license plate numbers. Retrieving will ~~involve~~ be involved when matching car picture for verification and retrieving bank details, etc.

Start here.

iii) Future Applications of this technology could be used in workplace applications. For example

- Applying this same technology to a building
- Workers must enter by taking their picture and and getting it verified from the database
- Furthermore, workers can get their wage times instead of payment. So workers enter the building and begins receiving their wage (or calculating amount earned rather than actual payment, so details may be pressed during actual payment) and leaving and stopping the calculation of wage earned.

The technology will change way workers work as they can also telecommute from home if they aren't able to travel (Utilise technology from home). Security issues may involve data accuracy and integrity . For example

- A worker may begin work by taking picture but not actually doing the work required thus breaching integrity and also committing an unethical act.
- To further enforce security (eg in event of look alikes which may fool the system or showing a photograph to the camera instead of actual face) biometric and retina scans can be implemented to ensure the right people enter the right place.