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(I) Explain contribution from FP7 projects in IOT

Ans:-

FP7 means 7th Framework program for research and technology development. It lasted for 7 years from 2007 until 2013.

(a) FP7 icore access framework:

- The icore cognitive framework is based on the principle that any real-world object and any digital object that is available, accessible or controllable can have a representation in IOT.
- The icore initiative addresses two key issues in the context of IOT, namely how to abstract the technological heterogeneity that derives from the vast amount of heterogeneous objects and how to consider the view of different stakeholders.

(b) IOT @ work capability based access control system:

- A capability is a communicable, unforgeable rights marker, which corresponds to a value that uniquely specifies certain access rights to objects owned by subjects.
- In CAP-BAC, the user needs to show the service provider the authentication certificate prior to performing resources request operations.

cc) GAMBAS middleware:-

- GAMBAS means generic adaptive middleware for behaviour driven autonomous service
- Middleware will provide the means to gather context in a generic yet resources efficient manner and it will support the privacy-preserving sharing of the acquired data.
- GAMBAS middleware simplifies the development of smart city application focusing on common tasks, namely efficient data acquisition, secure and privacy-preserving data as well as data integration

cd) Butler project:-

- The goal of butler project is the creation of an experimental technical platform to support the development of IoT.
- Butler focused on five "innovation eco-system" that are part of most peoples lives

(1) Smart cities

(2) Smart healthcare

(3) Smart transport

(4) Smart Shopping

(5) Smart homes and offices