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SOA and RESTful Web Services.

Resource - Oriented Architecture (ROA) :-

→ ROA is an architecture ~~based~~ oriented to resource.

⇒ OR ROA is an architecture based upon the ~~resources~~ concept of resources.

→ Concepts and Properties of ROA :-

① Resource provider :-

→ Server that provides resource is called resource provider

→ eg :- AWS (Amazon Web Services), e Microsoft Azure, etc.

② Resource :-

→ Anything ~~that~~ can be stored in a computer, like documents or ~~objects~~ data.

→ Eg :- Web pages, ~~a~~ document, data, etc.

③ Resource representation :-

→ ~~Rep~~ Useful information about the current state of a resource.

→ ~~Eg:~~

④ Resource link :-

→ link to another representation of the same or another resource.

→ eg :- Watching videos in ~~Youtube~~ Youtube. (enta topic ~~video~~ dhesaii videos).

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Resource-Oriented Architecture Analysis and Design:

(1) : Designing Read-Only Resource-Oriented Services.

(2) Designing Read/Write Resource-Oriented Services.

(1) Designing Read-Only Resource-Oriented Services:

→ Following steps are to be done to design read-only resource-oriented services:

(a) Figure out the data set :
- What data are we exposing when building?

(b) Split the data set into resources:
- How to expose data set as HTTP resource?
  ↳ with hypermedia link.

(c) For each kind resource:

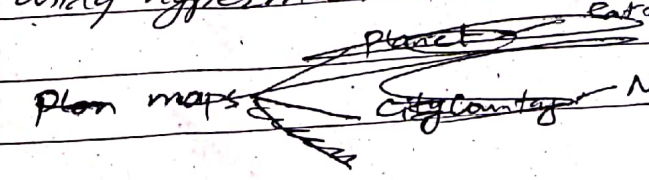
(c) Name the resources with ~~URIs~~ URIs
- Why should server operate in this place (map) instead of that place (map)?
  ↳ www.maps.example.com/

(d) Expose the subset of uniform interface
  ↳ www.maps.example.com/ ~~Country~~ Parent / Child

(e) Design the representation(s) accepted by client. Served to client

(f) Design the representation(s) ~~accepted by server~~

(g) Integrate this resource in to existing resources, using hypermedia links and forms



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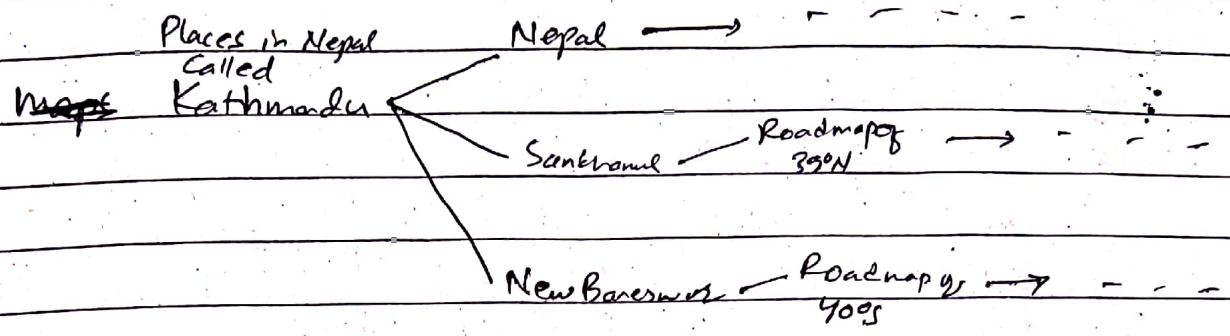

(ii) Consider the typical course of events: what's suppose to happen?

(iii) Conside errors conditions: what might go wrong?

5.2.2# Designing Read/Write Resource-Oriented Services (Note ma xasinto)