Assignment 4a.

Title - Implementation of jQuery Mobile.

Problem statement : create a simple Mobile website using jquery mobile.

Objective. Apply jquery Mobile library conventions and demonstrate a website.

Theory.

What is Mobile jquery?
jQuery Mobile is the easiest way to build sites and apps that are accessible on all popular smartphone, tablet and desktop devices.

jquery Mobile is a touch-optimized HTML UI framework designed to make responsive websites and apps that are accessible on all smartphone, tablet and desktop devices.

jquery Mobile has multiple pages and navigation, widgets, form widgets, etc.

1. Pages
Page is primary unit of interaction in jquery Mobile and is used to group content into logical views that can be animated in and out of view with page transitions.

Ajax Navigation.

The $.mobile.navigate method and navigate event from the foundation of jquery mobile's navigation infrastructure.

2. Widgets.

Navbar.

A navbar is coded as a unordered list of links wrapped in a container element that has data-role = 'navbar' attribute.

3. Form widgets

checkbox

checkbox inputs are provided a list of options where more than one can be selected.

Radio buttons

Radio buttons are used to provide a list of options where only a single option can be selected.

Radio buttons are enhanced by check box radio widget

Title - Wlok on AWS VPC or AWS Elastic Beanstalk for deployment.

Problem statement - Deploy /Host your web application on AWS VPC or AWS Elastic Beanstalk.

Objective - understand the working of AWS VPC or AWS Elastic Beanstalk.

Theory.

What is Amazon VPC?

Amazon virtual private cloud enables you to launch AWS resources into virtual network that you've defined. This virtual network closely resembles a traditional network that you'd operate in your own data center, with the benefits of you using the scalable infrastructure of AWS.
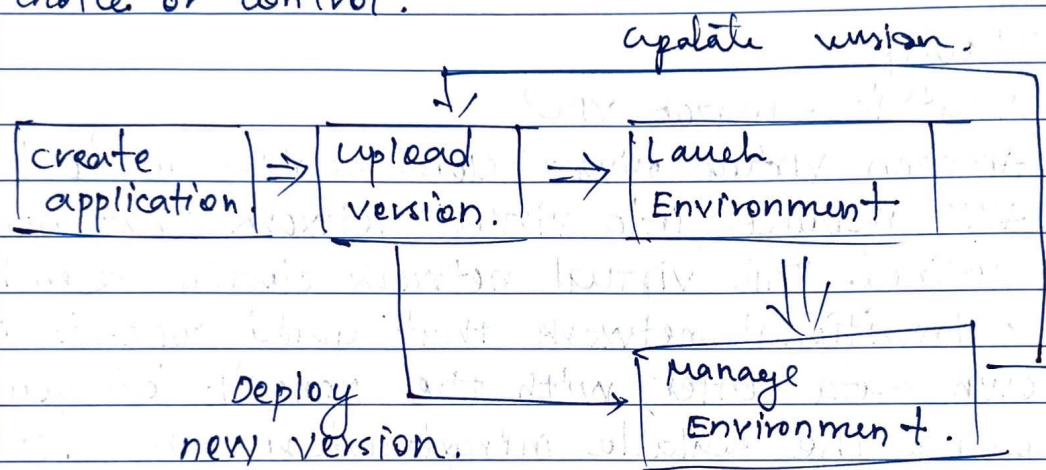
Features are:

→ Virtual private clouds (VPC)
→ subnets.
→ It is a range of IP addresses in your VPC.
→ IP addressing.
→ Routing.
→ Gateways and endpoints.
→ Peering connections
→ Traffic mirroring
→ Transit gateways.
→ VPC flows log,
→ VPC connections

What is AWS Elastic Beanstalk?

Amazon web services comprises over one hundred services offers flexibility for how you want to manage your AWS infrastructure.

With Elastic Beanstalk, you can quickly deploy and manage applications in AWS cloud. without having to learn about the infrastructure that runs their applications. It reduces management complexity without restricting choice or control!

update version.

```
┌──────────────┐     ┌──────────────┐     ┌──────────────┐
│ create       │ ⇒   │ upload       │ ⇒   │ Launch       │
│ application  │     │ version.     │     │ Environment  │
└──────────────┘     └──────────────┘     └──────────────┘
                                                  ⇓⇓
              ┌─────────────────→ ┌──────────────┐
       Deploy                     │ Manage       │
    new version.                  │ Environment. │
                                  └──────────────┘
```

After you create and deploy your application, information about application - including metrics, events and environment status is available through Elastic Beanstalk console, API or CLI.

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