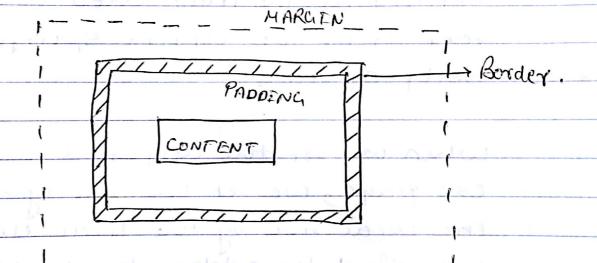
## WPL

2.a> CSS BOX Model

The bose model applies to all HTML yemens. It is basically used for the design a layout of HTML web pages. The components of bose model are:

o Margin o Border



The above d'agram shows the CSSBOX

The margin is transparent, it is the clear area (while space) present autible the Border.

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2) -	The border can be either opaque of transparent (we can specify bounded Style itypes with trickness).  Style itypes with trickness).  We can specify the boarder color in unspecies
3)	padding is the area around the consent. This is usually transparent.
4)	Convent is the main area where the text or all the convent specified in the
	when we ser the height i width in a CSS page, we set the Ciza of the interest
8 2 2 B	CSS page, we set the size of the intention The total size of the HTML element is concerted by adding the padding, borders, mangin I the consent and
	Lar sacombre:
	div 2 width: 200 Px; Padding: 10 Px;
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border: 5px; masigin: 5px; The total width win be 200+20 (padding eleft + padding lique) + 10(borderdeft+ border light) + 10 (marginlest + marginlight) = 240 Px Quene Service client Servey Indesing Redundancyl queveine QUEUR Reptication Reg Noor Pile Upload cache Appin Server Fleupload Reg Noole Storage with Posting cache redundan of d File Downlood sch acopon in anorher orea. Robuing Regnode 000 No APPIL Fire bown ld cache SEYVEY Indexing Sharaing FIL Regnode Scarch Distribute of cache FILE Storch distribund Redundancy & Pornitioning

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The diagram shows the scalable architecture you file apload, download it file browsing.

The following concepts are covered in diagram:

Redundancy: This is achieved by Staving multiple Copies of the Server of well the database. This ensures that if on server or database fails, the service can point to the other Server. Thereput by maintaining multiple copies of the Server eresule a replica database, hedundancy is a cheived.

Sharding: Shanding is acheived by passining the database. The database is peed in crease the speed if a single lange database is maintained espirency is reduced.

3) Distributed caching: This is a chiered by maintaining a cache in all tul

heguesting nodes. If darain present in the cache, it is directly hetrieved mathem than hequesting the servery everytime.

Indesing: Indescing technique in appoint for the database stomage & herrieved.

The index mainteins key varues & a hashing technique to stare and hetrieve days in the database into the herrieve docation.

## 5) Distributed Queung:

It is a chieved by maintaining 2 queues
your tre Servers. The Irequest first goes
to tre queue, which then sends it to tre
server based on its availability is based
on the request primary. This maintains
load on the application Server.