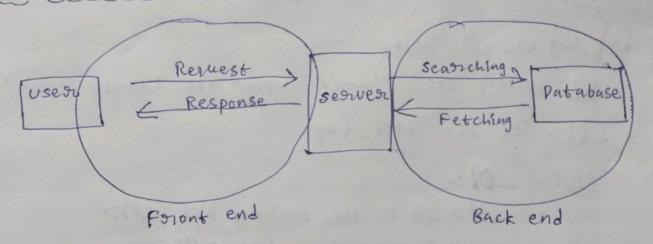
## Part - A (theory)

1) Working of Internet website in terms of front end and back-end division:



- Foront end prefess to the visible and interactive paper of a website that users interact with directly.
- Foront end take prequest from the user and gives presponse
- Back-end prefers to the server-side of a website that handles the behind-the-scenes operations and data processing. It consists of a combination of server-side programming languages, databases and server infrastructure.

D' Tags in HTML:

ex: <P> Hello world </P>

· < img sxc = " " alt = " " >

en: cimq sxc="image: sample" alt="sample image">

· clis is the list tag

en: <00>>

all It is the ondered list 4/11>

< 11> Reponesents numbers < /11>

C/010

Culs

209> It is unordered list < /19>

Clis Reponesents dots

</11)

· 2+87, cth7, ctd> these agre used foor table tags.

ex: <tx>

ctho Name

C+8>

> vishnusai

C/t8>

· < h1> is used for largest heading

chi> Hello c/hi>

- (3) Woorking paroceduare of Viartual DOM:

  1. Initial Rendear: when a greach component is first

  arendeared. It creates a viortual preparesentation of the

  Dom in memory called the viortual Dom.
  - 2. Viortual DOM updates: when there are changes to the components state, React 8e-renders the viortual pom.
  - 3. Diffing: React performs a process called diffing, to
    determine the changes needed to update abtual Dom
  - 4. Dom manipulation: It updates the oreal DOM by applying only those specific changes.
  - 5. Reconcillation: React efficiently reconciles the changes in the viortual DOM with the actual DOM.

## 1 Mysal

- Reporesents data as tables and prows.
- Relational database
- Based on the tables
- The schema is origid
- Inserting new columns
  or fields affect the design.

## NOSQL

- Poes not preparesents data as tables and prows.
- Non- Relational dutabase
- Based on the documents
- The schema is dynamic
- No effect on the design with the insertion of new columns.

## 3 DBMs technology:

- Software systems used to store, retrieve and orun queries on data.
- Take MysqL
- Mysql is an open-source orelational database management system that is widely used to building for web applications and powering dynamic websites.

It is known for its scalability, reliability and case of use.

some key features of Mysql?

- Pata management
- Querying and Reporting
  - Data security
- scalability and Performance
- community suppost