Java Backend Boot Camp. (Java Brains) The Big picture Java Basics Java Coelections Advanced Java Maven Three-ther architecture Brower -> Front-and 1 Page load -> mid-ter Rest case - Database. Backend server CON Databage. Microsewices: Pageload Rest call CONJ · API Grateway anterd delivery an Network servicec service B Distributed Database C. servers that deliver DatabaseB Databave A web content to users basedon CON Origen server (main server) their geographic location Edge seever (copy of origin seever) × web request: DNS > Domain name system" Browsee -> DNS -> corresponding 1 paddress 1) cache (found) -> retworms cachal version cache (not found) -> sende sequest to origin IP of dosest CON - CPN serva

web page: HTML page, CSS acrets, images, Is acrety Fonts Rest regnests: * Js -> consumts ATTP segment, * Adds endpoint API URL and HTTP meshod. * Includes necessary palameters or data. * Server gets request and leturns response. * Java Script receivez response and processes it. + Response mansfests as a Ul Change. & capable backend: * Intercept requestes * Extract data forom requests * perocess the sequest * Pull velessary data from database * Proces the data and perpare response * Return the response. Handling requests: HTTP. -> HyperText Transfee Porotocol HTTP Request: * Request line ('GIET/index.html HTTP/1.1') * He allers: Meta infor about the request * Body: Data to be sent with the lequest. HTTP Response: * Status line: First line Eg: 1HTTP/1.1 200 OK' * Headers: heta information about the sesponse. * Body: Actual data being sent.

H) 17:stateles perotocol.

Cookies -> Allow multiple requests to be "tied together * sent to the chierot in the set-cookie header de Response.

* sent back to thee serva in the cookie header à subsequent lequests.

Git - helps to work with the gile of many people. at same time.

Git > manages versions of one code locally or on a semo te Services but hub > potential "main v remote server.

Github: -

Pull request workflow

* fork the sepository.

* clone the repository.

* create a new branch.

* Hake changes

* Push the changes.

* c'écate a puel request.

* Review and discuss

* Merge or decline.

* update and delete the branch.

Three - Her Xrchitecture:-

* Peros entation Layer - (user interface) HTML, US,

* Application Layer. 1 Busines Logic of the

application) * Dota Layer. Vinterface for the data

stored in the database)

Fount end > use Enterface bank-end = application logic, calculations, databases and seeme cide tasks.