Assignment 02 password, engular expuess urtain format of the fi use the mySQL database Objectives: basie

Regular expuessions (enger) and patterns used to match charact when a u combinations in strings they are highly muful for evariation suplaining and validating test if they are suitable for data validating they are suitable for data valid untes a its ID in each tim a suguest back, all the logged breaure they allow durlopurs to define sprifie rules. (100-9] {10}\$) or ensuring a 3 what is assured would aims at hast one both when password condains at hast one both clien experiese letter, one number an validation? one special character. describe a this makes enger a compact soly on input formats. mod is ulient si 2 Explain the fundamental differe user exp in the consent of unb application is surrur development. how do they werk the date on the b together to maintain a mures Sienario: if a forem Idua Suript thise bu data stored on the dient's brown etimpue, often und to evenember more nalidation purposenus or identificus. ii) sessions are stored on the source si such at surur and track mer information (like login details) avios muliple enquets.

auce when a user logs in, the server charact they its IP in a wookie. each time the burnier sends a suguest, the cookie is sent back, allowing the some tro the logged in state. a valid pure ti 3 Khat is the purpose of performing both ilient side and sirrure side validation? part soly on dient slide validation uforein soud led to a security vulnerablity ans. Jan (aus. differe neur experience by quickly checking nordie inputs before subminison lication ii) somme side validation ensures i) ulient side validation impuones work the data integrity and security unc's Sienario: if a forem only true dient side us of her businesse or manipulate in sure wanted disable Janawipt in sure businesse or manipulate in sure and manipulate and sure enquests with durloper tools, byparing ralidation (g. injection SOL code)!
source side ralidation prements u the such attacks. Wails)

4 puride a simple example of how a janawipt san interest with the DOM to dynamically change the sontent of a meb 1 fronter unate ( mu my 2 A JAX / fi from fu source 3 backend page after a user artion such as a form submission. and han eg - khanging a message after kliking a button. (4) Latabase mysal ce to connu (IDOCTYPE html) myson da 3 Query Face ( whul) (body)

(p id = "mag") Before submirmion (1p) © Response:

(button onlick = "change Mag!)")

data ba

submit (/button)

for disp (suript) function change M&g() {

dournent. get (lement By 1 d ("msg").

junc HTML = "form submitted"; 1) write 3 nalid at io (/ suript) (/hody) aus. i) sewrity hure, the DOM is manipulated by updating the iontent dynamically. ii) Acurax and es iii) Deve to 3 give the steps for connectivity errors.

From front end using HTML, (3)

ans.

Dépondend (HTML/C3S/JS): muste a prom to vollet @ A JAX / fitch API! send the date from prontend to the backen 3 backend: Luciue the enqui and handle database logic.

@ database connutricity: use my SQL commitons or libraries to connect the backend wit mysol database 3 Aury Facution: inent, update or fish data as per suguirment n (1p) @ Rupone: send confirmation or date back to the front end for display. Durite 3 majons why form nalidations are important. is senity - premente injection

attacks (sor, xss)

is Ameran - enemus only work

and expected data is submitte in there taperaine - provider errors.

Title - Student Registrat Name: Meghshyam Kir PNR: 1262240002 Branch: TY-CSE-CSF Course: FSD CODE (INPUT): <!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8" <meta name="viewport" <title>Student Registrat k rel="stylesheet" hr </head> <body> <div class="container"> <h2>Student Registr <form id="regForm" <div class="form-<label for="use <input type="te <span id="use </div> <div class="form <label for="em <input type="6 <span id="em <div class="form <label for="pl <input type=" <span id="ph <div class="for <label for="p <input type= <span id="p systems