Date: 19/12/24 CSA4378- Internet Programming Day: Thursday ASSIGNMENT-1 Talkpara Cathloir D SOFTWARE COMPANY SPECIALIZED IN WED DEVELOPMEND (i) 08: How do the underlying operating systems (LAMP, WAMP) influence the choice of stack for each project? Disucs the Advantages and limitations of each O's in a web development content? Sol:
- Linux for WAMPT * Advantager- opensounce, art effective, highly customizable, stable. It is widely used in web horting Enumerous and compatibility with popular web teannologies. * Disadvantages: (1) More Technical Expertise the Centisuro.
(ii) Givi book are less user-friendly. · Windows for WAMP:-* Advantager: (1) Familiar Interface for Users & Administrator. (ii) Seamless Integration with windows-bused tools like Active Directory a MSUFFICE. (iii) Easier for tlams already using windows Environmenn. * dimitations? (1) Higher dilense outs which standarchawberer (ii) Les prevalent in +listing Environments Compares tolnux. (ii) Given the specific needs if project A and project B, which stack would you recommend for Each project? Justify your recommendations based in factor like Costs ease of use, compatibility and scalability, Project-1 CElommene Platform -> LAMP Stuck

· Swift Cation! * Linux is ast-effective, aligning with the client's limited bugget. * LAMP is highly scalable, making it suitable for a growing business * The open-source Ecusystem of Linux offers accepto a wide range of Security took and Community Support. * Project-B -> WAMP Stack * Justification? with their Existing IT Infastructure. · WAMP offers straightferward Integration with windows Applications and service such as Ms sol senes with 365 of fle. (ii) what types of web applications are typically built Using LAMP VS WAMPS Private Examples of real-world applications (or platferms that use these stacks SOL: * Typically used for open-Source applications like word-pres, Toomla and mupal.

* Suitable for web-hosting platforms and frameworks * Ez: Falebook, Wikepedia and many aud-bared Saupatforms · WAMP: * used for Internal Purness Applications (on CMS that Teature windows Integration, * Enterprise Application Leveragny ASPINET on monroft technologies. A Ex: Share point, some intranet perhals and wholeus bared CMS

(iv) what Critical factors should developers consider when selecting between LAMP and WAMP for a Specific projects Include Censiderations such as security, Comparison on Seaunty, Community Support and ease" of Diployments · Security;-*LAMP benifix from a robust open-Starre Community for busck patching and updates * WAMP Offers Strong security when Integrated with windows took like Bit-lucker and Active - Directory. · Perfermane: * LAMP Outperforms WAMP in history Environments due to the Efficiency of linux. * WAMP Can be resource heavy but performs well in wndows-native environmenss-· Cemmunity- Suppert * LAMP has the larger Cemmunity due to it's welspread adoption in hosting and development. * WAMP'S Community is smaller, but still active, particularly for enterprise user · Ease of Deployment. * LAMP requires technical Expersise but is well-document * WAMP is easier for developer familiar with windows. (V) provide Examples of situations where Chousing one Stalk Over the other might be concal, For Instance, how might the choice of stack simpact the long term maintenance and statability of applications * Chousing LAMPI-* Startups (or) Small bussiness needing Cost-Effective, scalable

and flenble solutions. · Example: A startup building an inline market place with Dynamic Ralability needs · Chasing wamp: * For organizations with existing Enumenments in wondows technologies. * Example: An Edulational Institution building a CMS Integrated with office 365. * Questiona: Design and develop a fully functional and desgensive web form using HTHL5 and Cos for a Fictional event registration. Your turk is to create a User-friendly, accessible, and virually appealing form that meets certain Regimenter. * thmi Code with Internal-css ande:-L! DOCTUPE html> < html lang="en"> < head> <meta charsetz "UTF-R"> < meta name = "view pent" Centent = "width-device-width, initial-Scale=110">

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* < tentarea > and <select > Ennere flexibility for user Input. * Semantic elements like Llaber Simprive accessibility and Usability. * CSS-Styles: · A clean, modern work with subtle shadows and numbed Cemers Enhances visual appeal. · Hover and focus Effects private Immediate feedback during user Interaction (2) user-frendly and Accessive pesign; * Allessibility; Ensured proper < label > with screen reactor * Focusses styles for Inputs aid Keyhiard Navigation * Responsiveness: used relative units and media Queries to adapt the fam for all screen sizes. * Emr- prevention: · vised ++TM15 Validation for Required fields and specific nartypes-3 Regunsne Design Censiderations, * Adapted the layout to shank and fit mobile screens costhaut horizantal schooling. * Challenges: (i) maintaining spacing and proportions.

(ii) which were Addressed with flexible padding and fint Sies.