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Xalqaro ilmiy-amaliy anjuman materiallar to‘plami *Andijan 2023 yil 10-noyabr*

FRONTEND DASTURLASH BO'YICHA ELEKTRON QO'LLANMA YARATISH MODELI VA ALGORITMLARINI MA’LUMOTLAR BAZALARI BILAN BOG‘LASH

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Annotatsiya. Ushbu maqaloda frontend dasturlash bo'yicha elektron qo'llanma yaratishning ma'lumotlar bazalari bilan bog'langan modeli va algoritmlari haqida umumiy ma'lumotlar berilgan. Elektron qo'llanma, frontend dasturlash sohasida qo'llab-quvvatlanish, yordam va yoritish maqsadida ishlatiladigan resurslardan biridir.

Kalit so‘zlar. Frontend, dasturlash, electron qo‘llanma, model, algoritm, malumotlar bazasi, kontent, foydalanuvchi, autentifikatsiya, kuzatish.

Ma'lumotlar bazalari bilan frontend dasturlash uchun elektron qo'llanma yaratish uchun quyidagi modellar va algoritmlardan foydalanish mumkin:

•Tabiiy tilni qayta ishlash (NLP) tadqiqot ishlari, maqolalar va blog postlari kabi matn manbalaridan ma'lumot olish uchun ishlatilishi mumkin.

•Mashinani o'rganish (ML) ma'lumotlardagi naqshlarni aniqlash va bashorat qilish uchun ishlatilishi mumkin. Bu tarkib jadvallari va indekslarni yaratish kabi vazifalarni avtomatlashtirish uchun ishlatilishi mumkin.

•Kompyuterni ko'rish (CV) tasvir va videolardan ma'lumot olish uchun ishlatilishi mumkin. Bu tushunchalarni tasvirlash uchun ekran tasvirlari va animatsiyalarni yaratish uchun ishlatilishi mumkin.

Ushbu modellar va algoritmlardan foydalanib, siz aniq, keng qamrovli va qiziqarli bo'lgan elektron qo'llanmani yaratishingiz mumkin.

•Frontend ramkalar: React, Angular va Vue.js kabi bir qancha mashhur frontend ramkalar mavjud. Ushbu ramkalar murakkab frontend ilovalarini yaratish uchun ishlatilishi mumkin.

•Ma'lumotlar bazalari: Relyatsion ma'lumotlar bazalari, NoSQL ma'lumotlar bazalari va hujjat ma'lumotlar bazalari kabi turli xil ma'lumotlar bazalari mavjud. Ma'lumotlar bazasining har bir turi o'zining kuchli va zaif tomonlariga ega.

•Ma'lumotlar bazasini loyihalash: Ma'lumotlar bazasini loyihalashda quyidagi omillarni hisobga olish kerak: ma'lumotlar bazasida saqlanadigan ma'lumotlar, ma'lumotlarga kirish uchun foydalaniladigan so'rovlar va ma'lumotlarga qo'yiladigan xavfsizlik talablari.

•Ma'lumotlar bazasiga kirish: ma'lumotlar bazasiga kirishning bir qancha turli usullari mavjud. Eng keng tarqalgan usul - ma'lumotlar bazasi API-dan foydalanish. Ma'lumotlar bazasi API - bu ma'lumotlar bazasida ma'lumotlarni so'rash, kiritish, yangilash va o'chirish kabi operatsiyalarni bajarish uchun ishlatilishi mumkin bo'lgan funktsiyalar to'plami.

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•Ma'lumotlar bazasi xavfsizligi: Ma'lumotlarga ruxsatsiz kirishning oldini olish uchun ma'lumotlar bazalarini himoya qilish muhimdir. Ma'lumotlar bazalarini himoya qilishning turli xil usullari mavjud, masalan, parollar, xavfsizlik devori va shifrlash.

Ushbu mavzularni yoritib, ma'lumotlar bazalari bilan frontend dasturlash bo'yicha elektron qo'llanma ishlab chiquvchilarga frontendni ishlab chiqish jarayoni haqida to'liq tushuncha berishi mumkin.

Sizga foydali bo'lishi mumkin bo'lgan ba'zi qo'shimcha manbalar:

•Mozilla Developer Network (MDN) veb-ishlab chiqishni o'rganish uchun ajoyib manbadir. MDN-da turli mavzularda, jumladan, frontend dasturlash, ma'lumotlar bazalari va xavfsizlik bo'yicha maqolalar mavjud.

•W3Schools veb-sayti veb-ishlab chiqishni o'rganish uchun yana bir ajoyib manbadir. W3Schools-da HTML, CSS va JavaScript kabi turli mavzular bo'yicha interfaol darsliklar mavjud.

•Stack Overflow veb-sayti dasturlash savollariga javob topish uchun ajoyib manbadir. Stack Overflow bir-biriga yordam berishga tayyor bo'lgan katta dasturchilar hamjamiyatiga ega.

Ushbu manbalardan foydalanib Frontend dasturlash bo'yicha elektron qo'llanma yaratish modeli va algoritmlarini ma’lumotlar bazalari bilan bog‘lashingiz mumkin.

Frontend dasturlash uchun elektron qo'llanmani yaratish modeli va algoritmlarini ma'lumotlar bazalari bilan bog'lash imkonini beradi

1.Kontentni saqlash: ma'lumotlar bazalari

Kontentni saqlash: Ma'lumotlar bazalari matn, tasvirlar va boshqa ommaviy axborot vositalarini o'z ichiga olgan elektron qo'llanma uchun tarkibni saqlash uchun ishlatilishi mumkin. Bu kontentni oson izlash va yangilash imkonini beradi, shuningdek, foydalanuvchining afzalliklari yoki boshqa o'zgaruvchilarga asoslangan dinamik tarkibni yoqishi mumkin.

2.To'g'ri va tegishli natijalarni taqdim etish uchun qidiruv algoritmlari uchun qidiruv funksiyasi .

3.Foydalanuvchilarning fikr-mulohazalari: Ma'lumotlar bazalari foydalanuvchilarning fikr-mulohazalarini va elektron qo'llanma bo'yicha sharhlarini saqlash uchun ishlatilishi mumkin , bu esa ishlab chiquvchilarga foydalanuvchi kiritishi asosida qo'llanmani yaxshilash imkonini beradi. Bu, shuningdek, qo'llanma atrofida hamjamiyat yaratishi va hamkorlik va muhokamani rag'batlantirishi mumkin.

4.Foydalanuvchi autentifikatsiyasi: Ma'lumotlar bazalari foydalanuvchilarni autentifikatsiya qilish va ularning afzalliklari va sozlamalari asosida shaxsiylashtirilgan tarkibni taqdim etish uchun ishlatilishi mumkin . Bu, ayniqsa, murakkab tarkibga ega bo'lgan kattaroq qo'llanmalar uchun foydali bo'lishi mumkin, bu foydalanuvchilarga seanslar davomida o'z taraqqiyoti va sozlamalarini saqlashga imkon beradi.

5.Tahlil: Ma'lumotlar bazalari foydalanuvchilarning xatti-harakatlari va tahlillarini kuzatish uchun ishlatilishi mumkin , bu esa ishlab chiquvchilarga foydalanuvchilar qo'llanma bilan qanday munosabatda bo'lishlarini tushunishga va

yaxshilash kerak bo'lgan joylarni aniqlashga imkon beradi. Buni Google Analytics yoki maxsus tahliliy echimlar kabi vositalar yordamida amalga oshirish mumkin .

Frontend dasturlash uchun elektron qo'llanmani yaratish modeli va algoritmlarini ma'lumotlar bazalari bilan bog'lash orqali ishlab chiquvchilar yanada dinamik va shaxsiylashtirilgan foydalanuvchi tajribasini yaratishi , shuningdek, qo'llanmaning funksionalligi va qulayligini yaxshilashi mumkin.

FOYDALANILGAN ADABIYOTLAR

1. HTML va CSS: Jon Dakket tomonidan veb-saytlarni loyihalash va yaratish
2. HTML va CSS: Jon Dakketning veb-saytlarni loyihalash va qurish kitobi
3. JavaScript: Duglas Krokford tomonidan yaxshi qismlar
4. JavaScript: Duglas Krokfordning "Yaxshi qismlar" kitobi
5. Marijn Haverbeke tomonidan yozilgan javascript
6. Marijn Haverbeke tomonidan yozilgan JavaScript-ni tushunadigan kitob
7. Front-End Development: Maykl C. Rassel va Endryu B. Hunt tomonidan Big Nerd Ranch qo'llanmasi
8. Front-End Development: The Big Nerd Ranch Guide kitobi Maykl C. Rassel va Endryu B. Hunt
9. Jeyson Santa Mariya tomonidan foydalanuvchi interfeysini qayta tiklash

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STEPPING UP THE FIGHT AGAINST CORROSION: PREVENTING CORROSION OF STEPPED SHAFTS

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Annotation: This article explores effective strategies and best practices for preventing the corrosion of stepped shafts, which are commonly found in mechanical systems. The prevention of corrosion in stepped shafts is crucial to ensure optimal performance, reduce maintenance costs, and extend equipment lifespan. The article discusses material selection, protective coatings, cathodic protection, environmental considerations, and regular inspection and maintenance as key preventive measures. By implementing these strategies, the negative impact of corrosion can be minimized, preserving the integrity of stepped shafts.

Keywords: Corrosion prevention, Stepped shafts, Material selection, Protective coatings, Cathodic protection, Environmental factors, Regular inspection, Maintenance, Corrosion-resistant alloys, Corrosion inhibitors.

Introduction: Corrosion is a persistent and costly problem that affects numerous industries worldwide. When it comes to stepped shafts, which are commonly found in various mechanical systems, corrosion poses a significant threat to their functionality and longevity. The prevention of corrosion in stepped shafts is of paramount importance to ensure optimal performance, reduce maintenance costs, and extend the lifespan of equipment. In this article, we will explore some effective strategies and best practices for preventing corrosion in stepped shafts.

Corrosion is an electrochemical process that occurs when metal reacts with its environment, leading to the deterioration of the material. Stepped shafts, with their varying diameters and exposed surfaces, are particularly susceptible to corrosion. Corrosion can manifest in several forms, including uniform corrosion, pitting corrosion, crevice corrosion, and stress corrosion cracking. To prevent corrosion, it is crucial to implement a comprehensive corrosion prevention plan. The choice of materials for stepped shafts can significantly impact their susceptibility to corrosion. Opting for materials with high corrosion resistance, such as stainless steel or corrosion-resistant alloys, can provide an excellent foundation for preventing corrosion. These materials offer superior resistance to chemical attack, oxidation, and environmental factors, making them ideal for stepped shaft applications in corrosive environments. Applying protective coatings is a widely adopted strategy for preventing corrosion in stepped shafts. Various coating options, such as paints, polymer coatings, and metal plating, can effectively shield the surface of the shaft from corrosive agents. These coatings act as a barrier, preventing direct contact between the metal and its environment. It is essential to select coatings that are specifically designed for corrosion resistance and can withstand the operating conditions of the shaft.