SOFTWARE ENGINEERING PRESSMAN 7TH EDITION SOLUTION

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Software Engineering with Pressman: 7th Edition Solutions

Question 1: Describe the role of a software quality assurance (SQA) team in the software engineering process.

Answer: An SQA team plays a crucial role in ensuring software quality by performing independent verification and validation (V&V) activities. They evaluate software adherence to requirements, identify defects, analyze potential risks, and monitor compliance with quality standards.

Question 2: Explain the difference between software requirements specification (SRS) and software design specification (SDS).

Answer: An SRS defines the external behavior of the software system from the user's perspective. It specifies what the software should do, without specifying how it should be implemented. Contrastingly, an SDS details the internal architecture and structure of the software, outlining how the system will be designed and implemented to meet the SRS requirements.

Question 3: Discuss the importance of testing in software development and describe two types of testing techniques.

Answer: Testing is essential for detecting and fixing defects in software systems. There are numerous testing techniques, but two common types include functional testing and non-functional testing. Functional testing evaluates whether the software works as intended, according to its functional requirements. Non-functional testing

ensures that the software meets non-functional requirements, such as performance, reliability, and security.

Question 4: Explain the concept of software engineering ethics and its implications for software developers.

Answer: Software engineering ethics involves adhering to moral principles and ethical considerations in the development and use of software. Software developers have a responsibility to design and implement software responsibly, taking into account potential impacts on society, individuals, and the environment. Ethical considerations include privacy, security, reliability, and fairness.

Question 5: Describe the agile software development life cycle (SDLC) and its key principles.

Answer: The agile SDLC focuses on iterative and incremental development, with close collaboration between teams and continuous feedback from stakeholders. Key principles include adaptive planning, frequent releases, continuous integration, and continuous improvement. Agile methods enable teams to respond quickly to changing requirements, deliver value incrementally, and improve software quality over time.

What is the latest version of HTML and CSS? HTML5 is the latest version of HTML, introducing new features and enhancements, while CSS3 is the latest version of CSS, offering advanced styling capabilities and features.

What is HTML5 and CSS3? CSS3 is simply the newer "version" of CSS which has more advanced features than earlier "releases." Likewise, HTML5 simply is HTML and CSS3 is simply CSS. Both HTML5 and CSS3 became marketing buzzwords way above and beyond the technologies that they are referring.

Which CSS version is used in HTML5? The Latest Version of HTML is HTML5 and for CSS is CSS3. CSS3 is the current version of CSS that implements new animation and transition properties, allows gradients, webfonts, advanced selectors and a few built in functions that differ greatly from CSS2.

Should I learn HTML5 or CSS first? Ideally you'll learn HTML first, then CSS, and then finish with JavaScript, as they build on each other in that order.

Is HTML5 outdated? The W3C retired HTML5 on 27 March 2018. Additionally, the retirement included HTML 4.0, HTML 4.01, XHTML 1.0, and XHTML 1.1. HTML 5.1, HTML 5.2 and HTML 5.3 were all retired on 28 January 2021, in favour of the HTML living standard.

Are HTML and CSS obsolete? Unless somebody creates an alternative and every browser ever accepts it, HTML & CSS are not going anywhere. HTML is the base markup for displaying content on web pages. For that standard to change would require all the browser makers to take up the new standard and eventually deprecate HTML.

What replaces HTML5? Android SDK, JavaScript, WordPress, Java, and AngularJS are the most popular alternatives and competitors to HTML5.

Can I learn HTML5 without knowing HTML? Sure, you can. There isn't much difference between html and html5. Although skimming through html first might give you a heads up while learning html5 as you will be able to understand and compare both of them.

Is HTML5 just HTML? HTML5 is the latest version of HTML and supports new markup language functionalities such as multimedia, new tags and elements as well as new APIs. HTML5 also supports audio and video. HTML does not provide native audio and video support. HTML5 provides native audio and video support.

Will there be an HTML 6? There is no HTML 6. HTML5 is a living standard though the W3C publish point releases on the spec, this release is more about versioning the spec document at certain points of completeness than being a version of the language or feature set.

How many types of CSS are there in HTML5? We learned that style sheets come in three types, external, internal, and inline. External ones have their own file and apply to every web page that includes them. Internal ones apply to the whole document, but you have to put them at the top of the page in the header.

What browser uses HTML5? It's compatible across browsers. HTML5 is supported by all the major browsers, including Chrome, Firefox, Safari, Opera, as well as iOS for Chrome and Safari and Android browsers. It can even work with the older and

less popular browsers like Internet Explorer.

What is the fastest way to learn HTML and CSS? Watch YouTube Tutorials One of the simplest ways to learn HTML as a complete beginner is by following online tutorials. Many websites offer step-by-step guides that cover HTML basics and help you gain basic familiarity with the language.

Which is more difficult HTML or CSS? CSS might be hard to master, but without logic, errors are less troublesome. JavaScript will likely take longer to grasp than CSS, but both are notably more difficult than HTML. Despite this, JavaScript and Python are still considered two of the easiest programming languages to learn and are recommended for beginners.

Do I need to memorize HTML and CSS? You don't need to remember anything in HTML, CSS, or any programming language(need to remember the logic). As HTML and CSS are not programming languages you just have to deal with some syntax, layout, and styling.

Is HTML and CSS worth learning in 2024? Throughout the 2020s, web apps will still be built from html, css and JavaScript. There will be no big breaking changes to browsers and web infrastructure. I mean I can dream, but it's too entrenched. So if you plan to build web apps this coming decade, it's worth learning.

What is the disadvantage of HTML5? Browser Support The disadvantage of HTML5 is that it only supports modern browsers. Browsers like Internet Explorer do not accept the features of HTML5 but the features are supported by the latest version of browsers like Mozilla Firefox, and Chrome.

Why is HTML5 so popular nowadays? The Semantics In the past, conventional developers used a lot of tag div. Now, they can easily develop using the new tags that include nav, header, and footer. This makes HTML more productive. When it comes to the classification of different web page parts, HTML5 provides all the necessary semantic elements.

Do people still code HTML and CSS by hand? Do people still code HTML and CSS by hand? Of course they do. In fact, every web developer should still be coding HTML and CSS by hand, even in current times where WYSIWYG editors and drag-

and-drop page building tools are rife amongst the wider community. The appeal of WYSIWYG editors and page builders is clear.

Do people still make websites with HTML and CSS? The answer is a resounding yes, and here's why. At their core, HTML (HyperText Markup Language), CSS (Cascading Style Sheets), and JavaScript form the trinity that constructs and styles every website.

Can we create a website without HTML and CSS? No, you can't build a complete website using only JavaScript without HTML or CSS. Here's why: HTML provides the structure of your web page, like headings, paragraphs, and links. Without it, you can't create the basic layout.

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What is the latest version of CSS in 2024?

What's the latest version of CSS?

What is new in HTML5 2024? HTML5 introduces new form controls like date, time, email, range, and color, providing better input types that enhance user interaction and data validation. These built-in controls offer a more intuitive and efficient way for users to input data, improving form usability and the overall user experience.

Suku Bunga Dasar Kredit (SBDK) Bank Sentral Republik Indonesia (BI)

Apa itu SBDK BI?

Suku Bunga Dasar Kredit (SBDK) BI adalah suku bunga yang ditetapkan oleh BI sebagai acuan penetapan suku bunga kredit yang diberikan oleh bank kepada nasabah. SBDK merupakan salah satu instrumen kebijakan moneter yang digunakan BI untuk mengendalikan inflasi dan menjaga stabilitas nilai tukar rupiah.

Bagaimana Cara BI Menetapkan SBDK?

BI menetapkan SBDK berdasarkan hasil rapat Dewan Gubernur BI (RDG BI) yang digelar secara berkala. RDG BI mempertimbangkan berbagai faktor ekonomi, seperti inflasi, pertumbuhan ekonomi, kondisi pasar keuangan global, dan stabilitas nilai tukar rupiah, dalam menetapkan SBDK.

Apa Dampak Perubahan SBDK?

Perubahan SBDK dapat memengaruhi suku bunga kredit yang diberikan oleh bank. Ketika SBDK naik, maka suku bunga kredit umumnya juga akan naik, sehingga biaya pinjaman menjadi lebih mahal. Sebaliknya, ketika SBDK turun, suku bunga kredit berpotensi turun, sehingga biaya pinjaman menjadi lebih murah.

Bagaimana Cara Mengetahui SBDK Saat Ini?

SBDK BI dapat diketahui melalui situs web resmi BI (www.bi.go.id) atau melalui pengumuman resmi yang dikeluarkan oleh BI. SBDK biasanya ditetapkan pada level tertentu dan bersifat tetap selama periode waktu tertentu hingga ada perubahan kebijakan dari BI.

Kesimpulan

SBDK BI adalah instrumen kebijakan moneter yang penting dalam menjaga stabilitas perekonomian Indonesia. Perubahan SBDK dapat memengaruhi suku bunga kredit bank, yang pada akhirnya dapat memengaruhi biaya pinjaman dan aktivitas ekonomi masyarakat. Dengan memahami SBDK BI, masyarakat dapat lebih bijak dalam mengelola keuangan dan berinvestasi.

The Internet of Money: Unlocking the Future of Finance

The rapid advancement of technology has brought about transformative changes in various industries, and the financial sector is no exception. The emergence of the internet of money, often referred to as IoM, is revolutionizing the way we interact with financial systems and promises to unlock unprecedented opportunities.

What is the Internet of Money (IoM)?

The IoM refers to the interconnectedness of digital financial systems, enabling seamless and secure transactions between individuals, businesses, and institutions

around the world. It encompasses a wide range of technologies, including cryptocurrencies, blockchain, distributed ledger technology, and digital wallets.

How does the IoM differ from traditional financial systems?

The IoM operates on decentralized networks, eliminating the need for intermediaries such as banks. This not only reduces transaction fees but also increases transparency and security. Additionally, the IoM allows for the creation of new financial instruments and services that were previously impossible, such as peer-to-peer lending and decentralized stablecoins.

What are the benefits of the IoM?

The IoM offers numerous benefits, including:

- **Increased accessibility:** Anyone with an internet connection can access the IoM, making it more inclusive than traditional financial systems.
- **Reduced costs:** Removing intermediaries from transactions significantly lowers the cost of financial services.
- **Enhanced security:** Decentralized networks and robust encryption protect transactions from fraud and cyberattacks.
- **Innovation:** The IoM fosters innovation and the development of new financial solutions that cater to emerging needs.

What are the challenges facing the IoM?

While the IoM holds immense promise, it also poses several challenges, such as:

- **Regulation:** Establishing clear and consistent regulations for the IoM requires collaboration between governments and international organizations.
- **Scalability:** Ensuring that the IoM can handle a high volume of transactions is critical for widespread adoption.
- **Interoperability:** Connecting different IoM platforms to facilitate seamless transactions remains a challenge.

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