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interactive websites UIs that offer the best user experience.The primary task of front-end developers is to turn application design mockups into functional code, which ensures all UI features like buttons, dropdowns, virtual keyboards, etc. are both responsive and reliable. Front-end professionals work closely with UX/UI designers and back-end developers to optimize the user experience, focusing on elements such as performance, accessibility, and cross-browser compatibility.Back-end development services focus on building and maintaining the server-side logic, databases, and APIs that power web and mobile applications. Back-end developers specialize in creating efficient, scalable systems that handle data processing, business logic, and integration with front-end components.The most popular backend programming languages include Node.js, Swift, Python, Ruby, Java, and GoLang. Other examples of popular tools used in backend development include databases such as MySQL, MongoDB, and PostgreSQL, which ensure fast and secure data transfer and storage etc.Backend developers and backend development teams need to work closely with front-end developers to deliver seamless, end-to-end solutions that are performant, scalable, secure, and maintainable.Software development is the process of creating, designing, and maintaining software systems or applications. Software developers are professionals who undertake a comprehensive range of software development services that include working on a wide range of solutions, including web development, mobile apps, cloud solutions, and custom software.The software development life cycle refers to the whole process of creating an application. This includes requirements gathering, system design, coding, testing, deployment, and ongoing maintenance.Software developers or software engineers have created every app that you use and have ever used. Examples include startup and enterprise software apps, SaaS platforms, cloud-based applications, and more. Whether focusing on front-end, back-end, or full-stack development (using full-stack developers), the goal is to build reliable software that solves real-world problems in a user-friendly way.Quality Assurance Development Services or QA Development Services focus on ensuring that applications built during the software development process are the very best they can be. QA specialists are experts in detecting and rectifying issues known as bugs that negatively affect software performance, functionality, and security.QA engineers use both manual and automated testing to ensure that applications are robust and meet business objectives before release. To do this, they utilize a range of quality assurance solutions such as acceptance tests, stress tests, and security assessments.QA testers or QA engineers' teams working on large QA development projects undertake thorough testing services that are tailored to each project's requirements. An example includes custom test plans that implement test automation frameworks.QA consultants utilize continuous integration pipelines to ensure the early detection of errors, and thereby reduce the costs associated with late-stage bug fixes. Project managers help to coordinate these efforts to ensure that the QA process aligns with the enterprise or startup owners' requirements and timelines. The result should be a highly performant, bug-free product that meets all necessary compliance standards and is ready for users to use.Data science involves extracting actionable insights or trends from structured and unstructured data through analytical methods. Data scientists or Data scientist professionals create models and algorithms to perform data mining, machine learning, and predictive analytics, helping businesses make informed, data-driven decisions.In data science development projects, teams of data consultants and project managers work together to design tailored data strategies that suit the unique needs of each business. These projects often involve creating custom data processing pipelines, implementing machine learning models, and developing predictive analytics platforms that can be used for forecasting trends or improving decision-making. By utilizing these data science services, businesses of all shapes and sizes can access the latest big data analytics technologies to ensure that they stay competitive and can make the most of their users' data.SQL development is the process of designing, creating, and optimizing relational databases using Structured Query Language (SQL).SQL developers are tasked with managing data architecture to ensure that application data is reliably stored, secured, and retrieved as and when it is needed.SQL engineers use systems like MySQL, PostgreSQL, and SQL Server to develop queries, storage procedures, and performance-tuning solutions to optimize data flow to ensure optimum query and retrieval performance.SQL developers are also tasked with undertaking database normalization and ensuring data integrity, including making sure it is secure from third-party manipulation. This is a must for businesses handling large volumes of data or running mission-critical applications, as, in most cases, this data is strictly protected by governmental legislation that often carries with it large fines and even prison sentences if companies are found at fault after a data breach, etc.eCommerce development focuses on creating digital (electronic) platforms that facilitate online buying and selling. eCommerce developers are professionals that undertake electronic commerce store or online shopping system development. Typically, the responsibilities of eCommerce developers include designing and implementing the storefront UI and its features. Examples include shopping cart systems, product search systems, secure payment gateways, systems for managing product catalogs, etc.eCommerce developers utilize tools and platforms like Magento, WooCommerce, Shopify, etc., to create custom-built eCommerce stores to meet specific business goals. eCommerce engineers' expertise spans eCommerce front-end design, eCommerce back-end development, database management, and optimizing eCommerce websites for user experience (UX) and search engine optimization (SEO).Within the eCommerce landscape, Shopify development or Shopify development services are terms that relate to the building and customization of eCommerce stores on the Shopify platform. Shopify is an eCommerce shop development platform that, according to Shopify's 2023 business report, hosts 4.6 million stores across 175 countries.Shopify developers are development engineers who are experts in the Shopify platform and in creating user-friendly, responsive online stores, customizing themes, developing plugins, as well as integrating payment systems to create first-class user shopping experiences. Companies offering Shopify development services will know how to use Shopify's built-in tools and features to create cutting-edge stores that help maximize a company's profit revenue.Infrastructure engineering focuses on the design, deployment, and maintenance of IT infrastructures, including networks, cloud environments, servers, and databases. Infrastructure engineers are essential to any software development project.Infrastructure engineers are responsible for ensuring that systems run efficiently and securely and are capable of scaling with organizational needs. For the most part, infrastructure engineers work with technologies like Microsoft Azure, Amazon Web Services or AWS, Docker, and Kubernetes to implement reliable and performant cloud and network solutions. The tasks performed by these infrastructure professionals also include managing system performance, disaster recovery, and data backup strategies to ensure high availability and fault tolerance in whatever IT environment they are working on.Data visualization focuses on converting complex structured and unstructured (in the case of ML and AI) datasets into visual representations like graphs, charts, dashboards, and infographics to allow users to understand them.Data visualization developers use tools such as Tableau, Power BI, and D3.js to build interactive and insightful visualizations that help businesses extract meaningful insights from data. Examples of data visualizations might include stock price histories, user numbers and online behavioral patterns, electricity usage during various times of the day, etc.Data visualization engineers create customizable reports, allowing organizations to analyze data trends and performance metrics quickly, which, in turn, gives them the chance to act on these data-driven decisions quickly.Cybersecurity development revolves around protecting IT systems, networks, and data from malicious cyber threats such as hacking, malware, and data breaches.Cybersecurity engineers and data protection developers design and implement security solutions like firewalls, encryption, access control mechanisms, and compliance strategies (e.g., GDPR, HIPAA). Typically, they work with technologies like NIST frameworks, VPNs, and Intrusion Detection Systems (IDS) to protect sensitive information and maintain secure, compliant operations. Cybersecurity developers allow businesses to create secure applications and user experiences where users can trust that their data is being kept safely.No-code and low-code development allows businesses to build applications rapidly without the need for extensive coding knowledge.Developers leverage visual development platforms like Bubble, OutSystems, and Appian to create custom applications, enabling quick prototyping, workflow automation, and the development of business-specific solutions.No-code and Low-Code platforms allow businesses the chance to create and scale low-budget software solutions to enhance their online digital operations. A good example of a good No-Code and Low-Code project is the creation of a Minimum Viable Product (MVP) or a project to automate repetitive processes.Back to TopThe additional developer skills that your software engineer will need are as follows.Please note that this is a very generalized list, as there are so many different types of remote developers out there.Here is a list of key soft skills: Strong critical thinking and problem-solving abilities are a must for any developer, regardless if they are a junior JavaScript developer only creating simple landing pages or a senior blockchain developer who is creating a new blockchain solution. Coding is like trying to put together a complex puzzle; this means that it requires developers who can overcome issues and find solutions to often complex problems. Great collaboration and teamwork skills. Gone are the days when a lone developer could build a unicorn app. Today's apps are a collection of complex features that require teams of developers to build. This means good teamwork skills are essential. A good understanding of data structures and algorithms is also a must for most developers. Understanding fundamental data structures (e.g., arrays, lists, trees, graphs) and algorithms (e.g., sorting, searching) is a must for most developers. A solid grasp of software development principles such as object-oriented programming (OOP), design patterns, clean code practices, etc., is a must for any developer. A poor grasp of any of these will result in a slow, unreliable app that none of your users want to use. A good understanding of any relevant development methodologies (i.e., Agile, Waterfall, Scrum, etc.) that you plan to use on your project. Extensive experience in the use of version control systems like GitHub. First-class testing and debugging skills. A passion for continuous learning as developers must independently keep up with all the latest developments in their respective tech stacks. Back to TopYou should now be ready to hire a remote developer or developers for your software development project. You know what type of developer(s) you need and precisely what skills they need. This brings us to step one.The biggest thing you can do to ensure that your project gets off to a good start is to create a comprehensive product specification document. This document will give any designer, developer, project manager, etc., a clear understanding of exactly what you want your project to be. It will allow anyone to see clearly what types of developers and technical expertise you will need, architecture, development time frame, including how to plan sprints, etc. Once you have this document, you will be able to choose your hiring platform.If you are not sure how to create a project specification document, then you can use this MVP template as a guide.Finding the best software development company to hire developers from is another vital part of your project's success. Indeed, it is so important that I started this article with a top 10 list of the top software development platforms where you can hire developers.After more than a decade of working developing software, I cannot emphasize enough the need to hire talented developers from a reputable company that is as concerned with your project's success as you are.This is the key here: finding a company that not only has great remote developers but also does its very best to ensure that everything (developer management support, communication tools, infrastructure, NDAs, work quality guarantees, and even complimentary quality assurance engineers to review your application before release) are in place to help you succeed.Let me just say that you don't get this software development service with any freelance platform so my strong advice is not to take the risk and instead outsource developers from a reputable software development company. Here are some of the reasons why: Access to a large community of experienced developers who work only for the platform. Fully vetted app developers, saving you hours of hard work. Cohesive development teams so your project development will hit the ground running as developers already know how to work together well. Support from dedicated account managers which helps take the load of your project manager. Some of the best software development companies provide complimentary quality assurance engineers to check your application to ensure it is bug-free before you launch. Access to project management tools that have been tried and tested and work. Structured legal agreements, including non-disclosure agreements (NDAs) to protect your intellectual property. Risk-free trials for your peace of mind. Ok, so now compare this to the cons of hiring a freelancer developer: None of the above and sometimes only basic tech knowledge. Freelancers who work on multiple projects at once to ensure a steady income stream. When you hire freelance developers, candidates must be shortlisted, interviewed, vetted, and onboarded by the client company. This is extremely time-consuming. If freelancer developers steal your intellectual property, you are on your own. Regardless of which of the online hiring platforms you choose to hire remote developers from, you will need to review, shortlist, and interview candidates. However, if you choose to hire from a freelancer platform, then you will be doing a lot, lot more work as software development companies will usually shortlist a few of their more suitable developers for you to interview and approve.Once you have shortlisted (in the case of the freelance platforms) the most skilled developers, you can now undertake a 3 part interview process.1. Initial ScreeningThe initial screening interview will allow you to assess your shortlisted candidates' personalities, work attitudes, and basic qualifications.The idea of this interview is to go over their skills and development experience in brief as well as to get a good understanding of which are the most talented developers, as well as their language abilities, and suitability to your dedicated team. You should be able to eliminate between 50% and 70% of your freelancers at this stage.Make sure to discuss work hours, including time zone differences, behavior expectations, i.e., acceptable time to respond to messages, etc., and hourly/weekly/monthly pay rate.Here are a few questions you should not forget to ask: Do they use Agile, Waterfall, or another methodology? What kind of task tracker do they use? Do they use Slack, Discord, or another communication tool? How will they share their code with you via their GitHub account or your respiratory? Technical Assessment The technical assessment interview will allow you to evaluate your remote candidates' programming proficiency, problem-solving abilities, and experience with relevant tools and frameworks. I strongly advise that if you don't have a deep background knowledge of the technologies that you are interviewing your software developer about, you find someone who has this. I recommend asking someone from your existing team (if you have one) to help or even hiring an expert to help you. Here are a few example interview questions to give you an idea of the level I'm referring to. This is a general interview question for a mid-level mobile app developer: What kind of developments are you currently working on? Can you describe a recent project you worked on and your role in it? Have you worked on projects that are similar to this? Web development can be technical; how do you communicate with non-technical co-workers on your projects? Can you walk me through a time when you had to learn a new technology or skill quickly? What do you believe is the biggest challenge when working on the front/back-end? How do you ensure the quality of the code you write? How do you approach debugging and problem-solving? How difficult do you think my project is, and what timeline do you believe would be accurate? How do you prioritize tasks and manage deadlines in a project? You can find more example interview questions for mobile app developers here.2. Final InterviewDuring the final interview, you will be able to dive deeper into your remaining few candidates' technical skills and ensure they fit well within the team and organization. You can test their ability to code specific features and solve hypothetical problems that relate to your specific project. This will give you a very clear picture of how suitable they are and might just give you a few new ideas on how to approach your project development.Top Tip: It is a good idea to record all interviews so you can review them later on when you are making your decision. Please note that you must make candidates aware that you are recording the call as it is illegal not to be in certain states of the U.S., such as California and other regions of the world.Be sure to screen candidates by checking your developer's references thoroughly. You would be amazed at just how few companies actually do this, especially when hiring from a software development company.You can now onboard your developer. Make sure to start with getting them to sign an NDA. After you have done this, you can give them the complete details of your project, introduce them to your team, set up communication channels, access to the code repository, etc.Be sure to ensure your developers understand exactly what your expected working practices and preferred tools are.Finding the perfect remote developer for your project can take a lot of time and effort. As I have highlighted in this article, your best bet is to play it safe and hire from a reputable software development company and not to hire freelancers.If you are looking for the best software development company to hire good developers or development teams, or even to undertake your mission critical projects then DevTeam.Space should be your first choice.DevTeam.Space can assign the right developers or development team within 72 hours of you getting in touch with your project specifications. This allows you to quickly scale up (and down) your project development team, giving you the best flexibility to ensure you can optimize your development team at all times.DevTeam.Space offers fair and transparent pricing (yes, there are no hidden costs that most companies hit you with later on) and a risk-free trial too.But don't worry, this is extremely unlikely, DevTeam.Space has successfully completed over 300 projects and has a 99% success rate. The company assigns a dedicated project manager to every developer and development team to help manage them. All of DevTeam.Space's account managers have extensive experience managing projects similar to yours and in your industry.Finally, to make sure that your application is bug-free and as working as it should be, DevTeam.Space assigns a quality assurance engineer to test your app before release. This way you can rest easy that your app is completely ready to go. This is why DevTeam.Space has a 99% project success rate.For more information, arrange a complimentary discovery call with DevTeam.Space today.Back to Top A Mashup (also known as web application hybrid), is a technique that websites use to provide resources, functionalities, and services from multiple sources. To put it in layman's terms, a mashup works as an aggregator of different services. They mostly use public APIs that are generally free to use and thus, create a new service from existing ones. Types of Mashups:Business mashups: They are the services that power their application and resources with the help of external web services. Thus, they promote collaborative action between businesses and developers. They provide users with a better and interactive user interface and promise users a collection of variegated information.Consumer mashups: They are applications that make use of different data from the available public datasets and provide a simple browser user interface that is more easily accessible. Users can use the information in a simple, elegant, and organized way using these types of applications.Data mashups: These applications, contrasting to consumer mashups, use the same type of data that is available on different sources, and then combine them to create an entirely new source that has all the information that cannot be found at a single source.Architectural Levels: There are three levels that define the architecture of a mashup: Presentation or User Interaction Layer: This is the user interface of the mashup. Technologies: HTML, CSS, AJAX, JavaScript and XML.Web Services: Accessing products functionality with API services. Tools: XMLHttpRequest and SOAP.Data: Data handling like sending, storing, and receiving of data. Technologies: JSON, XML.Examples:Google Maps is one of the most popular services that is used by a lot of other companies/services. Applications that provide information about road conditions, using maps to show social media friends' location, providing ratings of different cities, etc. are some services that combine Google's data and use it in their own application.Amazon eCommerce is another one of the most popular services that some mashup websites use. Their API can be used in applications such as viewing product availability over different websites, cost comparison of a particular product over different websites, etc.Advantages: Using mashups has become an important and popular part of the web. It has several benefits described below: Providing aggregated content in one place so that users don't have to browse through different services.A more rich, interactive user interface.The development cycle is generally faster, due to the reason that developers require less code to build them.Promoting greater collaborations between companies/services.The cost of developing a mashup website is comparatively lower because of the reduced effort in application development.Disadvantages Although mashups seem to be a great option, it has some disadvantages as discussed below: The features of the mashup website are completely dependent on other developers, i.e. they can implement the features that are defined in the API of other websites and cannot be flexible about them.If the API/service of a website gets discontinued, it directly affects the mashup website.Contents that are being used in the mashup website are not completely secure.Lack of scalability is a major concern since it is unpredictable that the service used by the mashup website will be able to handle large traffic. What are Tech Stacks? Choosing the Right One What is Web App Top Web3 Startups in 2023 Difference between Web Services and Mashup Web Design Trends in Metaverse Best Ways to Learn Web Development Technology Stack Wappalyzer - Browser extension for website technologies Web3 Architecture and Tech Stack What is a Flash? Web Design Trends in 2025 noun.jump to other results Nearby words mashed potato noun mash up phrasal verb mash-up noun masjid noun mask noun railway noun From the Word list Oxford 3000 A2 Oxford Learner's Dictionaries Word of the Day