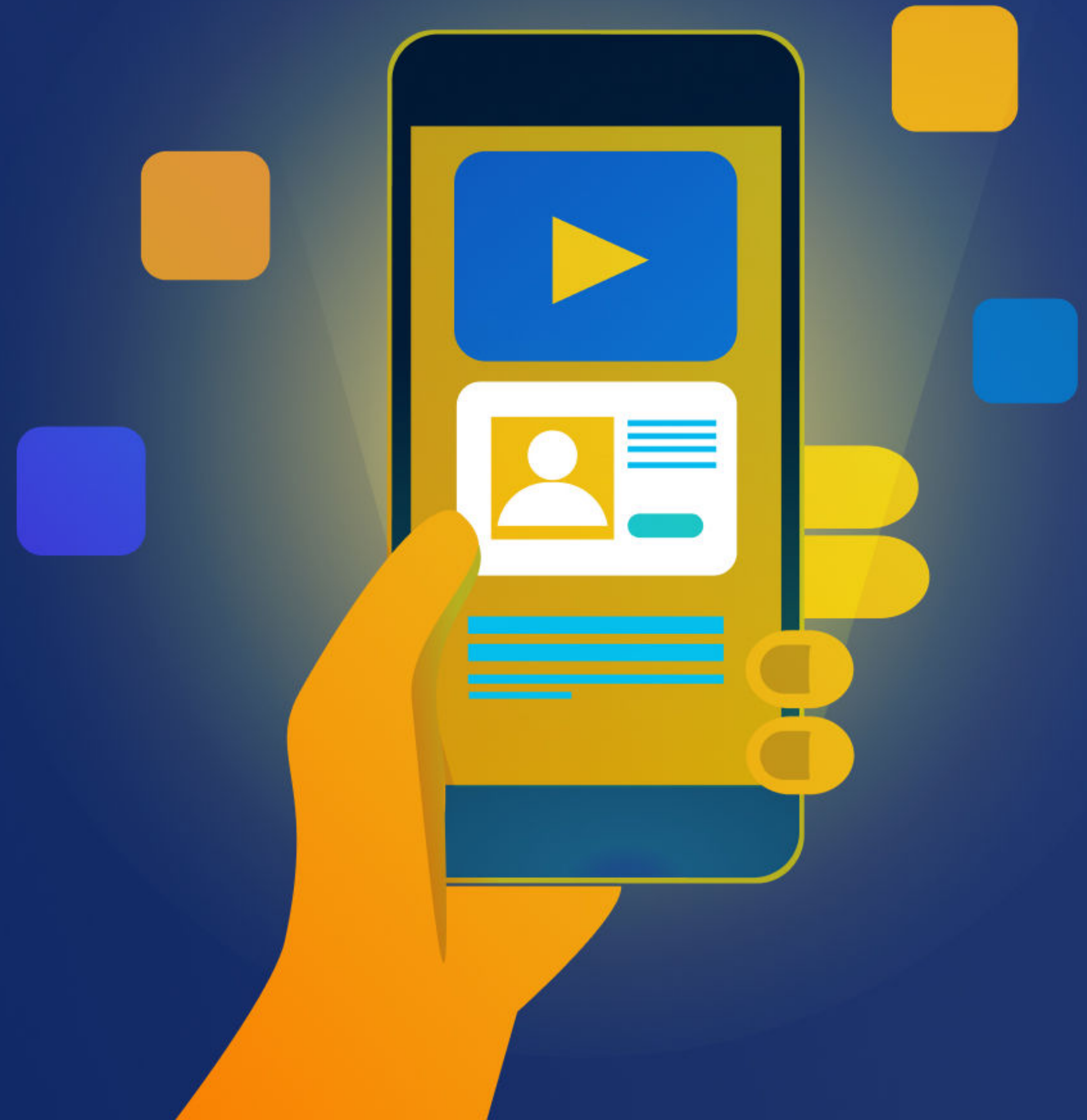


Beginner's Guide to Mobile Application Development



- Introduction
- Types of apps
- How to ideate for your app
- Technology
- Top frameworks for mobile app development
- Choosing the right framework for your app
- Planning your budget
- Funding your app idea
- Finding the right developer
- Creating a wireframe
- Developing an MVP
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Introduction

"The future of mobile is the future of everything," declared Peter Rojas, Co-founder of Engadget and Gizmodo. A decade ago, if anyone had suggested that we could make purchases using our mobile devices, we would have scoffed and sarcastically replied, "Sure, right!" Yet, here we stand, and it's imperative to recognize that this transformation commenced with the advent of smartphones. Nevertheless, the linchpin in this ongoing revolution remains, and will always be, mobile applications. Like projectiles, mobile apps have firmly embedded themselves in our lives, offering us a platform for gaming, communication, recording, entertainment, education, and, most importantly, conducting business.

According to a Statista survey, mobile app revenues are projected to reach nearly \$935 billion USD by 2025. If you are eager to enhance your business by launching your own mobile app, this ebook is tailored to your needs. Within its pages, you will be led through every phase of the mobile app development process, comprehensively covering all aspects.

By the time you complete this ebook, you will be capable of:



Generating lucrative ideas for your app



Understanding the technologies and tools involved



Budgeting and securing funds for your app



Identifying the right app developers



Gaining insight into the processes of patenting and developing your app.

Types of apps



	Hybrid App	Native App
Cost	Low to moderate	Moderate to high
Developed across	All platforms at once	One specific platform at one time.
Time needed	Quicker and easier to develop	Difficult programs used. Hence, requires more time
Code maintenance	Easy: Code is written once and deployed to all platforms	Hard: The same code can't be used for all platforms
Updation	Because of the single code used, easy to update	Different codes for different platforms, hence harder.
Maintenance cost	Low to moderate	Moderate to high
Best for	Simple apps, which require complete device access	Apps that need HD visuals and graphics like Games.

How to ideate for your app

Identifying the Issue: Begin by comprehending the marketplace and scrutinizing it for any preexisting challenges. Examine existing businesses to identify areas with potential for enhancement, services that you can provide, or shortcomings that need addressing.

Feasibility of Your App Concept: It is essential to ensure that your app concept can be transformed into a viable business using the available technologies. Verify that your ideas are both practical and attainable.

Market Research: This constitutes a pivotal stage in the ideation process, capable of either propelling your venture to success or causing its downfall, depending on your approach.

How to Go About It:

- Analyze the competition and understand your target audience.
- Evaluate the industry sectors your ideas pertain to.
- Opt for an idea that you are well-acquainted with, can easily explain, and aligns with your budget.

Technology

Technology plays a crucial role in maintaining optimal app performance, handling the intricate tasks seamlessly. However, selecting the most suitable technology for your app can pose a challenge.

So, what exactly is a mobile app development tech stack?

A tech stack encompasses a collection of frameworks, programming languages, and tools that empower you to construct a complete and fully functional mobile application starting from scratch. Making the right choice when it comes to your tech stack can not only streamline the development process but also save valuable time and resources.



Top frameworks for mobile app development



Flutter is an open-source, cross-platform framework that has been created by Google. Remarkably, according to Statista, a notable 42% of apps globally are built using Flutter.

What makes Flutter an attractive choice?

- **Expedited Development & Swift Time-to-Market:** Flutter facilitates faster app development, reducing the time it takes to bring your product to market.
- **MVP-Friendly:** It is particularly friendly to Minimum Viable Product (MVP) development, enabling rapid prototyping and testing of app concepts.
- **Thriving Developer Community:** Flutter benefits from an extensive and vibrant developer community, offering a wealth of resources, support, and plugins for developers to leverage in their projects.



React Native is an open-source, cross-platform framework developed by Facebook (now Meta Platforms Inc.).

What makes React Native an attractive choice?

- **Rapid Development & Quick Time-to-Market:** React Native accelerates the development process, enabling developers to deliver apps more quickly to the market.
- **Code Reusability & Efficiency:** A key feature of React Native is its ability to reuse code across different platforms (iOS, Android), which significantly boosts development efficiency and reduces effort.
- **Live Reloading & Hot Reloading:** React Native introduces live and hot reloading features, which allow developers to immediately see the results of the latest changes without rebuilding the app, enhancing productivity during development.

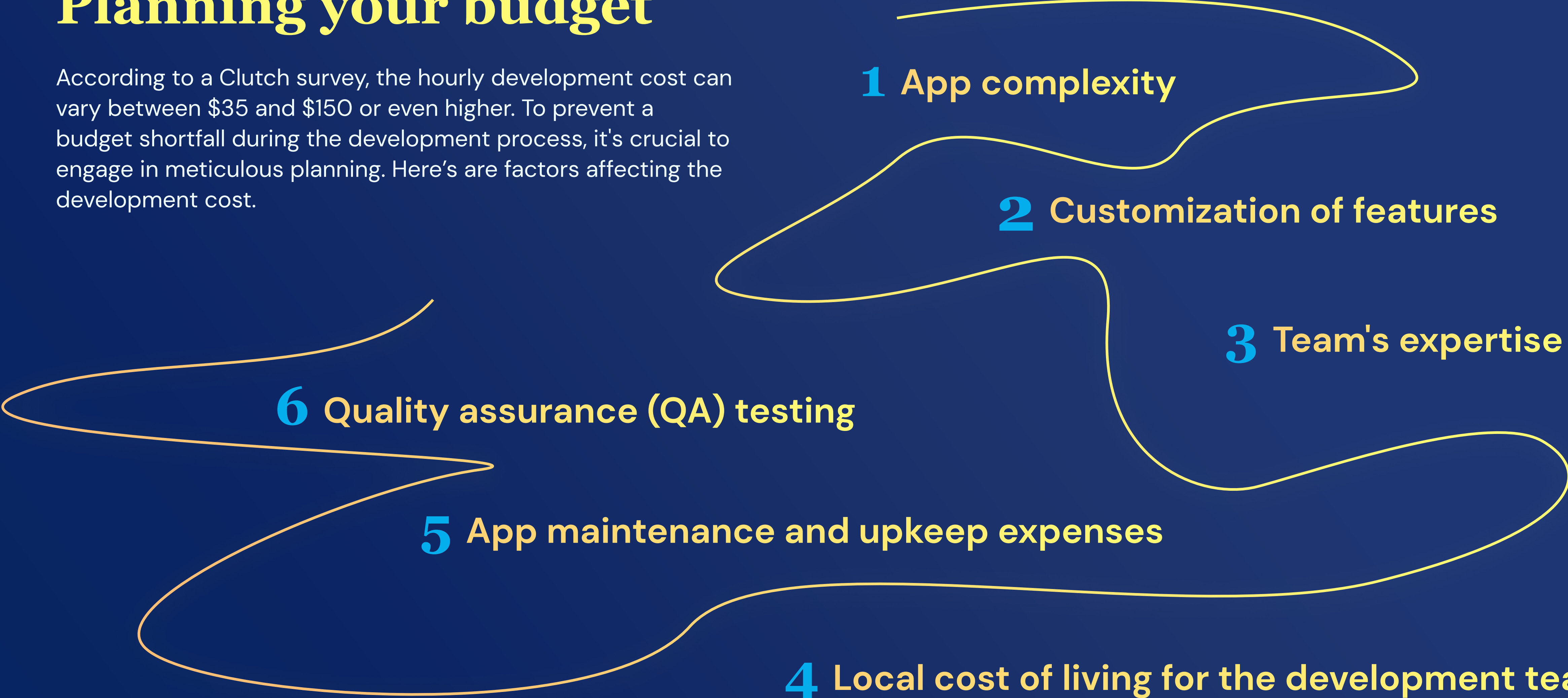
Choosing the right framework for your app

Here are some crucial factors to consider while choosing a framework to build your mobile application from the ground up.



Planning your budget

According to a Clutch survey, the hourly development cost can vary between \$35 and \$150 or even higher. To prevent a budget shortfall during the development process, it's crucial to engage in meticulous planning. Here's are factors affecting the development cost.



1 App complexity

2 Customization of features

3 Team's expertise

4 Local cost of living for the development team

5 App maintenance and upkeep expenses

6 Quality assurance (QA) testing

Creating a wireframe

Numerous developers have their own methods for crafting wireframes. Here, we offer you an insight into the typical process of creating a wireframe.



Size changes



Test properly



Map the user flow



Sketch the flow



Creating a layout



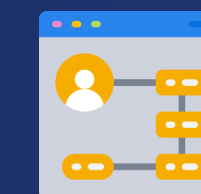
Using familiar design
for icons



Making a fully
functional copy



Scaling to different
screen sizes



Maintaining the flow
when screen



Developing an MVP

Producing a prototype or MVP (Minimum Viable Product) is a crucial step for product testing. The subsequent decision is whether to opt for a prototype or an MVP. To ensure your MVP possesses the qualities required for real-time success, it's important to follow a series of 'SIMPLE' steps.

1 Start with market research

2 Ideate the app

3 Map out user flow

4 Prioritise MVP features

5 Launch

6 Evaluate with B-M-L



App Development

The process of developing a mobile app can be divided into two distinct phases: pre-launch and post-launch development. App development continues throughout the entire lifecycle of the application. Let's dissect this extensive development journey into manageable sections.



Analysis and planning



Security updates



Development after reviews



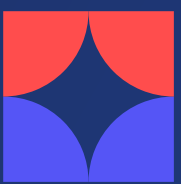
Periodic updates



Define a strategy



Design



Testing



Post-launch development



Addressing the public reviews



Increasing functionality



Pre-launch development



Prototyping and MVP

Takeaway

Incorporating technology for innovation is the key to future business growth. Smartphones serve as the ideal conduit for this transformation, with applications serving as their core essence. What we once experienced in cinemas, through Walkmans, cameras, and more, is now encapsulated within these devices — a seamless blend of entertainment, music, and business opportunities!

The revenue generated by mobile apps is rapidly approaching the 13-digit mark, all in USD. Numerous brands have thrived in this domain, and it's now your turn to make your mark on the world. So, let's get started. Whether you're tech-savvy or not, it's the perfect moment to create a mobile app for your business. Simply follow the steps we've outlined and begin developing your mobile app.

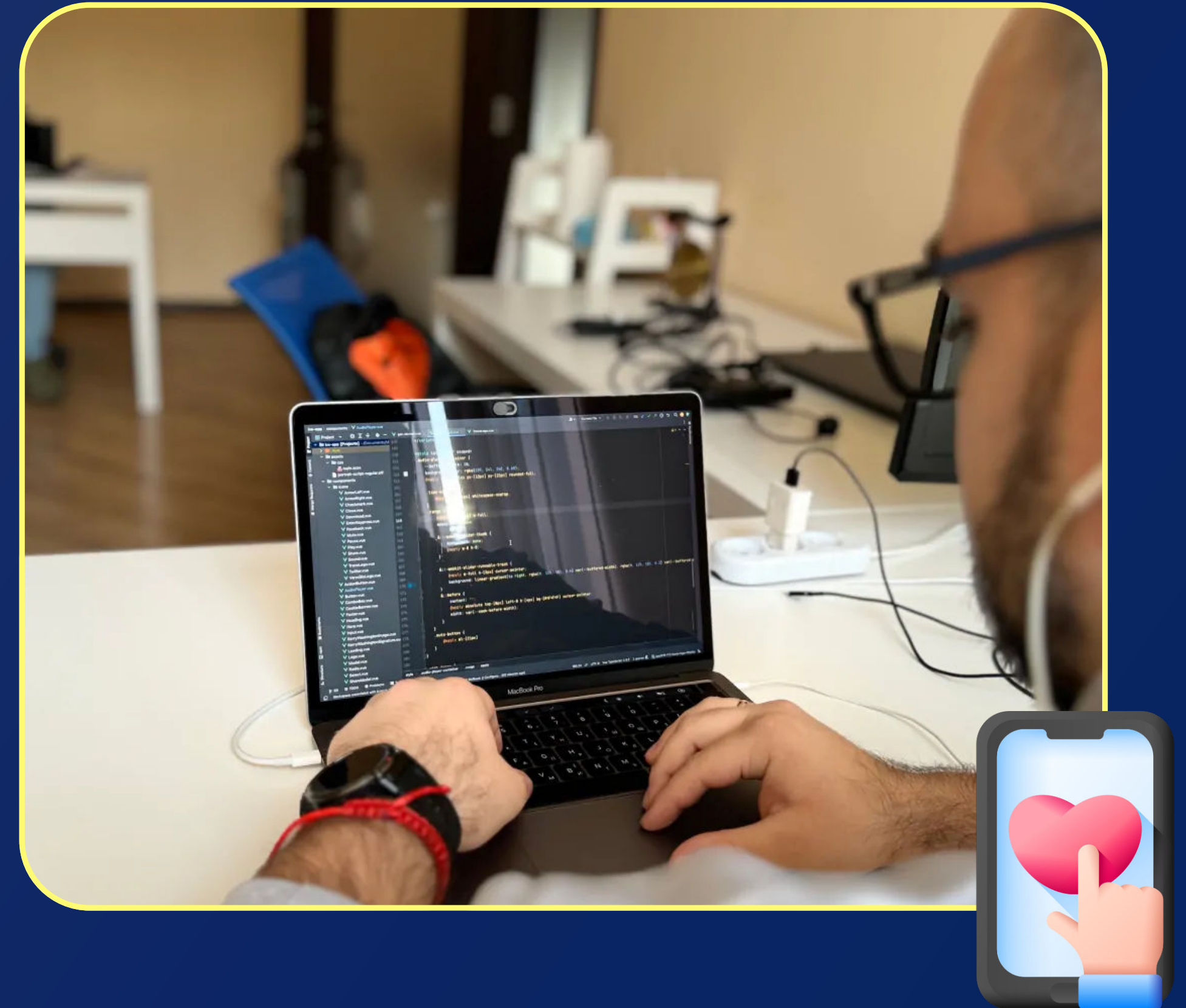


About Tateeda

Based in San Diego, Tateeda is a distinguished custom software development firm and staff augmentation provider. Our impressive talent pool includes more than 100 seasoned engineers.

We specialize in assisting companies across various high-tech and business sectors in crafting impactful and scalable software solutions. Our dedicated team is committed to bringing your vision to life by leveraging the latest technologies and industry best practices.

Tateeda has consistently earned recognition as one of the Fastest Growing Private Companies by the San Diego Business Journal for five consecutive years. Additionally, we take pride in our inclusion in the Inc. 5000 list twice, underscoring our sustained growth and unwavering commitment to excellence from 2022 to 2024.



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