5 Key Steps to Building Innovative Medical Apps

Why Digital Health Care Is The Future

Digital solutions make the medical system more personalized, turning it into an any-time, any-place, continuous care. We are witnessing the creation of a new business model — a customer-centered digital healthcare ecosystem.

The goal of digital healthcare is to create a single information space of varying scalability, from a standalone clinical institution to a regional network, with the help of mobile app development, cloud computing, web and other technologies. Information systems and networks build a reliable connection between patients, medical consultants and healthcare providers, which improves the efficiency and security of communication, and is beneficial for all the parties.

Benefits for Clinical Specialists

☑ Elimination of daily routine paperwork

☑ Easy management of practices via using electronic health records

☑ Seamless process management between clinics and hospitals

☑ Enhanced collaboration with colleagues due to telemedicine even in spite of the geographical distance

Benefits for Patients

☑ The ability to schedule appointments and fill out documents remotely

☑ Easy communication with personal physicians via secure online channels

☑ Access to lab results and medical history via digital personal health records

☑ Additional educational information provided by experts on different issues

Benefits for Health Organizations

☑ Improved diagnostics due to reliable and comprehensive patient data and easy access to records

☑ Better coordination of processes because all the information is stored in one place

☑ Availability of communication tools

☑ Reduced costs due to the automation of numerous tasks

☑ Enhanced quality of medical services

☑ Increased patient satisfaction and engagement

Step 1

Initial Assessment

☑ The initial assessment stage serves to break down the goals of the project in order to clearly grasp the WHY of the project and align our team with yours.

☑ We will put into writing the problem we are trying to solve, user segments, and the value proposition that you have already identified and make sure we have a clear mutual understanding.

☑ We will also make sure we are grounded in the business opportunity, goals, market and revenue strategy.

☑ After creating a base of knowledge, we will perform an analysis of additional user needs, problems, risk assumptions, and expected outcomes, as well as competitor/market research.

Step 2

The Functional Structure

☑ The structure of an app always depends on its functions. We follow a process to help you prioritize and define what modules and submodules to create and how to connect them.

☑ We brainstorm ideas and define functional requirements, and then prioritize them using the core objectives of the solution. Aligned with the goals of the business model, we will reduce the list of requirements to an essential scope, so that each requirement is justified against the success of the product.

☑ This step also includes clarification of non-functional requirements related to business strategy, such as concurrence, scaling, third party services, and device coverage that are a vital input for making critical decisions that will affect the project.

Step 3

Design User-Friendly UI/UX

☑ Medical software design is a critical stage of the development process. It's impossible to create successful software without designing an intuitive interface, as it is the main tool of end-users. If this tool is complicated and not logical, users will shy away from it.

☑ To create a consistent and easy-to-use solution, software engineers and designers collaborate to create a user experience (UX) based on end-customer expectations and build a user interface (UI) to support the UX flow. Paying attention to color schemes, fonts, the size of buttons, text alignment, icons and images is critical to augmenting the user experience.

Step 4

Data Security

☑ Collecting medical data through digital health technologies, as well as its storage and processing create huge risks of sensitive personal information leakage and cyber-attacks. Therefore, security considerations are a priority.

☑ Any type of healthcare software must comply with standards and requirements taken in the country or region it is produced and implemented. For instance, in the United States guidelines, solutions must adhere to the HIPAA guidelines while in the European Union, General Data Protection Regulation (GDPR) rules are followed. Moreover, various methods and encryption techniques can be used to provide data protection.

Step 5

Seamless Integrations

☑ Seamless integration is vital, as numerous documents or services should be kept and seamlessly transferred to the new system.

☑ Planning the integration process is a challenge: on the one hand, solutions should be compatible with other systems, on the other hand, the migration should be performed in such a way that customers won't experience delays or downtimes.

☑ Therefore, it's important to include integration strategies in your development plan on the initial stage for synchronizing an app with a website, a clinic management system with accounting solutions, and so on.

Interested in learning more?

See how we helped save lives with University of Chicago Medical and get in touch with our team today.

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