

Software Engineering for Healthcare Applications

BigR.io's expertise in software engineering, product development, database technologies, cloud engineering, web and mobile applications development has helped us to create some highly specialized solutions for the healthcare sector.

Patient Data Registry and Real World Evidence

BigR.io has extensive experience with implementing high-throughput models of patient data portals in which a registry can be 'configured' to meet a specific set of study goals.

Different disease areas have several requirements with respect to data variables, study endpoints, assessments, clinical outcomes and patient reported outcomes. We provide a configuration capability so once the study variables and endpoints have been identified, they could be quickly included into a finished product. We have a true understanding of the importance in the 'discovery phase' within registry construction, in which the data variables, end points, measures, interventions, biomarkers and outcomes are identified.

A healthcare information management company requires a comprehensive and extensive data dictionary to capture all the elements necessary to perform comprehensive cohort analysis. In collaboration with provider groups, secure mechanisms are recommended to integrate patient de-identified data with data from external organizations. This process requires support for master patient record linking.



We have experience in this domain from a data model and service application programming interface (API) perspective. The data integration process also requires robust data mapping capabilities in which incoming data is mapped to common standard terminologies. The data import mechanism needs to be robust enough to identify aliases for a wide range of data types including, but not limited to, disease condition and staging, interventions (drugs), comorbidity, adverse events, procedures, observations, measurements, biomarkers and outcomes. Without a high-quality data import strategy, the quality of cohort exploration and any related analysis can suffer.

BigR.io offers a flawless execution model for the development of a Patient Data Registry.