

# Patient Registration App With EHR Integration

## Challenge

Our client identified a need for a modern, user-friendly app for registering new patients. They already offered both an online registration form and a downloadable PDF form used for offline submission, but the client wanted a new approach that was much simpler and more accessible for patients, their responsible party, and facility personnel.

In addition, all the information gathered through the current registration process was manually entered into the EHR system. The client wanted to remove this manual step and have the data loaded into the EHR system automatically.

## Solution

Create a new application that will enable patients, their responsible party, and facility personnel to complete the patient registration (i.e. enter and submit all necessary patient information). Some of the elements built into the app are authentication, role-based authorization, registration and other elements of the application security. The application architecture was designed using next-generation lightweight frameworks based on Java. Restful API implemented with Spring Boot as the backend of the application and web interface with ReactJS framework.

Enable the client's designated personnel to review submitted registrations.

Automatically send the patient data to the EHR system once the registration data is approved by designated personnel.

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## Benefits

The application provided the client a more user friendly onboarding process with an EHR integration. This enabled the client to not only shorten the process time by 50 percent, but also improved the quality/ better verification of the entered information.

The application is able to process images of a limited number of different insurance cards in order to automate entry of that segment of data (instead of users having to manually enter all the data).

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**Tech:** Java, Spring  
**Duration:** 2 months  
**Value:** \$50K