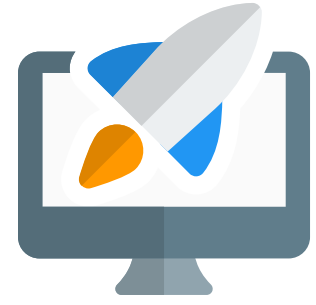iGNEK
DRIVING DIGITAL SOLUTIONS

Enterprise Patient Portal

A patient portal is a secure online website that gives patients convenient, 24-hour access to personal health information from anywhere with an Internet connection.

About client :

Client has deep expertise in the healthcare domain. Client is in mission to transform healthcare and developing suite of healthcare products using power of technology. Client has global presence in 5+ countries.

BUSINESS REQUIREMENTS :

- The client wants to develop a HIPAA compliance Enterprise patient portal.

- The solution should be a SaaS-based portal where different companies can register and use the portal with their dedicated URL.

- Patient data should be stored according to FHIR specifications.

- Login and registration should have multi-factor authentication features.

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- Patients should be able to manage all healthcare-related data such as allergies, problems, vital, immunization, medication, appointment, care plan, practitioners, care teams, devices, organizations, locations, and healthcare services.

Quick Facts :

" Industry : Healthcare "

Benefits Delivered :

"
- **Increases Agility.**
- **Increases Customer Satisfaction.**
- **Encourages Collaboration & Improves Communication.**
- **Increase Productivity.**
- **Enables High-Quality User Experience.**
"

KEY FEATURES :

- Used FHIR (Fast Healthcare Interoperability Resources) specifications to store patient data. FHIR is a healthcare standard for exchanging healthcare information electronically.

- The Portal provides excellent security of data and also provides robust & reliable storage facilities.

- JAX-RS Rest API are implemented using Liferay Rest builder to expose header and footer data. So that other portal can consume api and display header footer data from centralized global portal.

- Portal provides the following functionalities :

  - Registration and Login with Multi-Factor authentication using Channel Email, SMS, Twilio Authy, and Microsoft authenticator.
  - SSO using Facebook and Google.
  - Storing relative profiles for emergencies.
  - Visualization for the medical reports and information.
  - Weekly Medicine chart that keeps track of a patient's medication for a week. Each row signifies the days and the columns signify the dosage, date, time, and remark.
  - Patients can manage the appointments, allergies, vitals, vaccines, and problems data.
  - Patients can share patient records in PDF format with their physicians.
  - Patients can download all the records in PDF and excel format.

💡 SOLUTION/ TECHNOLOGY USES:

1 Liferay :

- Implemented multi-tenancy using Liferay's instance feature where each company has its own URL and it is mapped with each individual Liferay instance.
- Created a new company site from the master site using Liferay's LAR Import-export feature. Developed a custom module to manage patient data such as allergy, problem, vital, immunization, medication, appointment, care plan, practitioner, care team, device, organization, location, and healthcare service.

2 reCAPTCHA

It is used while registration and login to protect the portal from spam and abuse.

3 Service builder

Persist and fetch custom data.

4 Geocoding Maps API

Geocoding is used to convert addresses into geographic coordinates to be placed on a map.

5 iText library

We used this library to generate the PDF containing patient data like allergies, and vital.
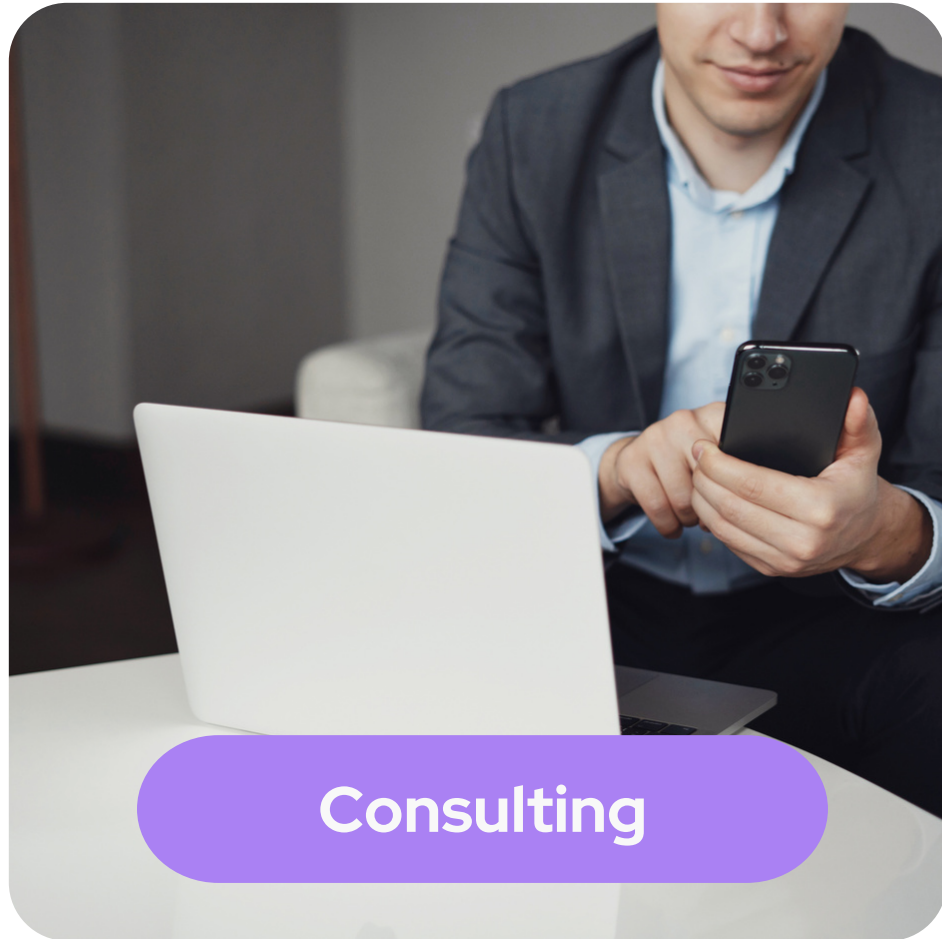
6 Twilio Authy API

Based on things that really matter and can cover a wide range of potential topics

7 JAX-RS web services :

We have developed Rest APIs so that other platforms/software can integrate with this portal.

Consulting

Development

Quality Assurance

Ignek Strength

Driving Digital Transformation

Contact Us

Because, we're here to help

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Thank You