

## eDok – Electronic Documentation

# “Knowledge Management Startup builds an Electronic Medical Record SaaS on WOLF”

Industry: Knowledge Management / Healthcare  
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## COMPANY PROFILE

**learn2turn consulting** is an early stage startup in the field of knowledge management. Their vision is to build bridges to connect sources of knowledge and aid in informed decision making by effective application of emerging technologies. They help organizations and individuals to turn their data into knowledge by exploiting the capabilities of well conceived knowledge management solutions.

They have partnered with experienced professionals in clinical medicine with a plan to build a knowledge community within the healthcare ecosystem. They conceived their first web product to be an Electronic Medical Record cum Knowledge Management solution to be used by gynecologists to manage patient records & chose WOLF as their technology partner. The product is named **e-dok – electronic documentation** leading the doctor on the path of **knowledge** discovery.

## BUSINESS CHALLENGES: Electronic Medical Record

- While there are a multitude of software products available for hospital administration, there are no flagship products to documents patient treatment records which can be used in hospitals, clinics or by individual practitioners.
- Help gynecologists have all their patients’ data at their fingertips and accessible from anywhere in the world and maintain the data in a web app that is reliable, more efficient and helps them make more sense of what they know!
- Aggregate the progressive data for patients through the course of treatment & publish it in the form of reports, risks and alerts, making it easy for doctors to get a glance of overall patient progress.
- Access to latest practices & guidelines provided by expert gynecologist with over 25 years of practice.

“Practicing clinical medicine is like constantly referring to “rules” in your mind, weighing possibilities and then deciding the best course of action. Developing and firing such complex rules rapidly without scripting for specific users along with the added ability to design custom user experience is a terrific capability of the WOLF Platform. I am betting on this intelligence & experience of e-DOK to help doctors “off-load” some of their mental churning to our secured cloud based SaaS solution.”

-Ravishankar Vishwanath,  
CEO, learn2turn consulting

The screenshot displays the eDok web application interface for a patient named Kavita R (18). The interface includes a navigation bar with 'Home' and 'Patient' tabs, and a toolbar with various icons. The main content area is divided into several sections:

- Patient Information:** Kavita R (18), Age(Yrs) : 37, Height(Cms) : 165.1, Current GA : 14, G 4 P 4 L 3 A 3 D 2, LMP : 10 February 2010, EDD : 17 November 2010. A link for 'Add/Edit Preliminary Data' is visible.
- Alerts:** A yellow banner indicates 'Iron and Calcium are not prescribed.' noted on: 21-May-2010.
- Pregnancy progress:** A section with a 'Filter by' dropdown set to 'All'. It lists prescriptions: Thrombocytic (Brand Heparin, Start Week 21) and Antihypertensive (Brand Tablet, Start Week 1).
- Risks:** A 'Risk Identification' table showing various risk factors and their status:
 

Risk Factor	Status
Age(Yrs)	37
Number of Abortions	3
Neonatal Deaths	3
LSCS	Yes
Twins/Triplets/Quadruplets	Yes
Congenitally Malformed Baby	Yes
Baby Weight	22.00, 2.10, 1.20, 21.00
NT	21.00
- Alerts (Bottom):** A section with a 'Show/Hide' link, listing 'Iron not prescribed' and 'Calcium not prescribed'.

### SOLUTION: From Idea to SaaS Product on WOLF in less than 200 hours

- learn2turn consulting partnered with experienced professionals in clinical medicine, practicing in gynecology domain. They quickly understood the course of treatment followed by them for their patients, identified an opportunity for creating knowledge out of the data and mapped the processes into a tangible SaaS product.
- They first planned to build the application using available open source tools but issues with multi-tenancy, scalability & provisioning meant that the web app had to be taken care of by professionals in the cloud computing arena. This is when they planned to leverage WOLF Platform as a Service for developing their application.
- WOLF worked with learn2turn consulting to transform their idea into a design for the SaaS application. Once the design was finalized, the first version of application design-development-deployment was accomplished in 200 man hours.
- learn2turn consulting focused their attention completely on product features and customer feedback with ongoing iterations quick and easy to implement on WOLF – agile in its truest sense!

### TECHNOLOGY

- **Technology:** Microsoft.NET 4.0
- **Database:** Microsoft SQL Server, MySQL
- **Web Server:** IIS 7
- **Private Cloud Deployment License:** Supports Windows Server 2008 R2 with Hyper – V
- **Public Cloud:** Microsoft Azure, iWeb

### BENEFITS: Electronic Medical Record – Enabling Gynecologists to

- Record the patients' progressive treatment in a web app which is accessible from anywhere, anytime!
- Put a structure to the course of treatment and track the next steps through the web app.
- Access an active dashboard that displays risks and throws up alerts corresponding to the data captured which helps them assign appropriate treatment without delays.
- Access the relevant practice guidelines based on the risk profile of the patient
- Provide a knowledge dissemination platform and question-answer based dialogs with an expert gynecologist.



### COMPANY and PRODUCT PROFILE

WOLF is a Cloud based Platform-as-a-Service that helps you design, deliver and use Software as a Service (SaaS) applications using only a web browser. The framework helps professionals and businesses to **focus on application innovation, rapid speed to market and continuous enhancement** rather than writing routine technical code and managing the infrastructure behind it.

WOLF greatly reduces the barrier to convert an idea or business process into an online web application by offering:

- **Prebuilt SaaS Architecture** that handles multi-tenancy, scalability, provisioning, etc.
- 'Out-of-the-box' **Code-Free Design Framework** that enables rapid development of robust applications.

WOLF Frameworks Platform is used to design & deliver a host of business applications catering to multiple industries. WOLF team brings thousands of man year experiences, ranging from commercializing Business Processes as On Demand SaaS, Cloud Strategy consulting to deploying solutions in leading Public and Private Clouds. WOLF is headquartered in India with offices in United States and is represented via solution partners worldwide.

**Website:** <http://www.wolfframeworks.com>

**For More Information**

For more information about WOLF products and services, call the WOLF Sales Information Center at +91 98865 46085. To access information using the World Wide Web, go to: <http://www.wolfframeworks.com>

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