OMCS Feature

# Abstract idea:

An online system that allows patients and doctors exchange information so that doctors can help patients to diagnose their medical issues and give advice. The system should support main features:

**Doctor:**

Real time conversation with patient

View patient history medical records

Build medical profile

**Patient:**

Real time conversation with doctor, support video captures

Add/update medical records

Vote/comment doctors

# Suggest feature:

Multiple chatting with many doctor involved, support upload and view picture on chat log.

Crawl news from many site (<http://www.cimsi.org.vn/>, <http://www.benh.vn/Y-Hoc/93.htm>)

Build a knowledge base that let user search by keyword (diagnosis, signs) in (public conversation, consultant article, …)

User oriented content (patient often care about their diseases, their favorite doctors) by using recommender system

# Consider feature:

*Each user have ability to post notes to share knowledge about health, experience with diseases*

Let user made a survey before contact with doctor to save time

# Similar Systems:

<http://www.ykhoa.net/yhocphothong/thamvansuckhoe/HDSK-92.html>

Q&A about medical information by sending email to Dr. Phan Xuân Trung

<http://www.vet.cornell.edu/consultant/Consult.asp>

Build a knowledge system contributed by consultants and let user search on it

<http://bacsytructuyen.com/>

News/tip about medical

Online consulting page: <http://bacsytructuyen.com/tu-van-truc-tuyen>

<http://alobacsi.vn/kham-benh-online.htm>

Make question and search in knowledge base (nearly 100000 questions)

<http://www.tuvansuckhoe24h.com.vn/>

Support chatting using yahoo

Ask question for consultants

# Difficulty:

Domain knowledge (medical issues, management paraclinical (cận lâm sàng) medical records)

# Technology:

#### .Net MVC 4

Custom Authentication and Authorization

<http://www.dotnet-tricks.com/Tutorial/mvc/G54G220114-Custom-Authentication-and-Authorization-in-ASP.NET-MVC.html>

#### SignalR for chat realtime

ht<tp://www.codeproject.com/Articles/732190/Real-Time-Web-Solution-for-Chat-by-MV>C-SignalR-H

#### WebRTC for video chat

<https://github.com/mgiuliani/webrtc-demo>

#### Social Authentication for login using social account

<http://dotnetopenauth.net/>

# Valuable reference:

#### Material, dictionary in medical

<http://www.medisoft.com.vn/default.asp>

#### Machine learning from Coursera

<https://class.coursera.org/ml-005>

#### Recommender system

<http://www.slideshare.net/blueace/how-to-build-a-recommender-system-presentation#btnNext>

Design

Based on template:

Homepage

<http://www.bootply.com/render/62603>

Admin

[http://www.bootply.com/render/85850#](http://www.bootply.com/render/85850)

Front-end

<http://bootstrapzero.com/bootstrap-template/flatly-theme>