

ONLINE MEDICAL CONSULTANT SYSTEM

GROUP 2

About us

- ▶ Supervisor:
 - NGUYỄN HUY HÙNG
- ▶ Team Member
 - TRẦN NGUYỄN TIẾN SỬ
 - TRẦN CAO DANH

Agenda

- ▶ Scenario Problem
- ▶ Propose our solution
- ▶ Technologies
- ▶ System Process Model
- ▶ Main features
- ▶ Demo
- ▶ Disadvantages
- ▶ Future Plan

Scenario Problem

- ▶ Nowadays, Vietnam hospitals usually are overwhelmed with patients^[1].



Tinmoitruong (2012).
Bệnh viện quá tải... dân khổ.
<http://kinhtemoitruong.vn/news/Moi-truong-suc-khoe/Benh-vien-qua-tai-dan-kho-389/>.

Scenario Problem

- ▶ Go to hospital not always a good choice due to
 - **Travelling cost**
 - Wasting time
 - Unsafeness^[2]



<http://bestfinancenetwork.com/>

Scenario Problem

- ▶ Go to hospital not always a good choice due to
 - Travelling cost
 - **Wasting time**
 - Unsafeness^[2]



<http://www.entrepreneur.com/article/224090>

Scenario Problem

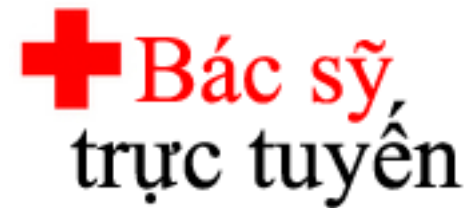
- ▶ Go to hospital not always a good choice due to
 - Travelling cost
 - Wasting time
 - **Unsafeness**^[2]



<http://www.safetysign.com/products/p6169/unsafe-area-do-not-enter-sign>

Scenario Problem

- ▶ Existing solutions in Viet Nam:



TƯ VẤN TRỰC TUYẾN
www.tuvansuckhoe24h.com.vn

Scenario Problem

Disadvantage of current system:

- ▶ Lack of interaction between patients and doctors
- ▶ Hardly can provide high quality consulting service
- ▶ Patient cannot able to manage their own profile information, medical health record

Propose our solution

- ▶ We see that there are many cases that patients don't need to go to the hospital quite often because those can easily conduct via internet.



Propose our solution

Advantages:

- ▶ Interaction between patients and doctors.
- ▶ Provide way to build medical profile online.
- ▶ Patient can manage their own profile information, medical health record.
- ▶ Patient can comment/rating for doctor.

Technologies



Microsoft®
.NET ASP.Net
MVC4

ASP.NET
SignalR

Incredibly simple real-time features
for your web apps



WebRTC

 **jQuery**
write less, do more.

 **AJAX**
Asynchronous Javascript And XML

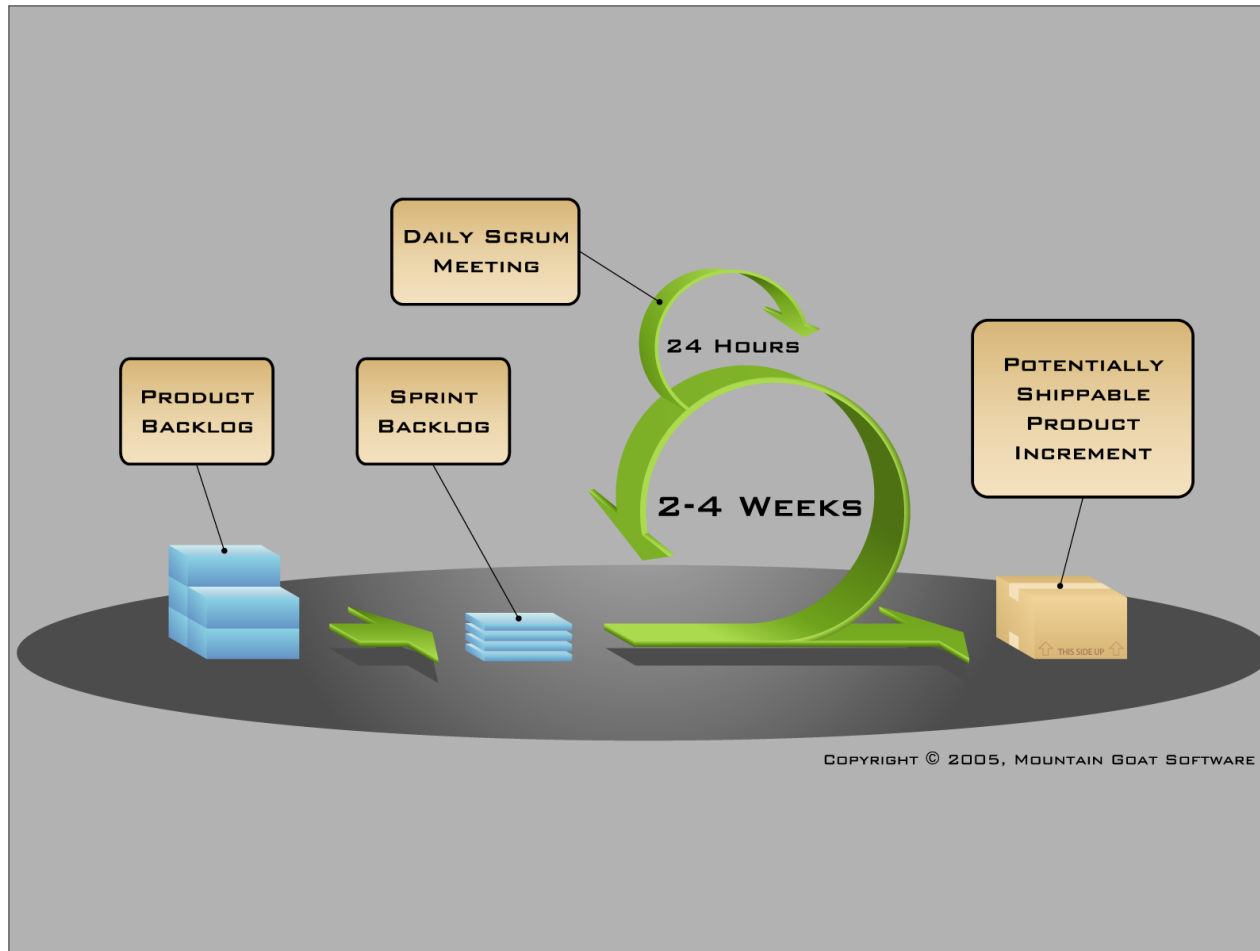


BACKBONE.JS



UNDERSCORE.JS

System Process Model



<http://www.mountaingoatsoftware.com/agile/scrum/overview> (Scrum Overview for Agile Software Development)

Main features



Manage Medical
Profile Template

Manage User

Manage Doctor

Manage
Medical Profile

Manage Film
Types

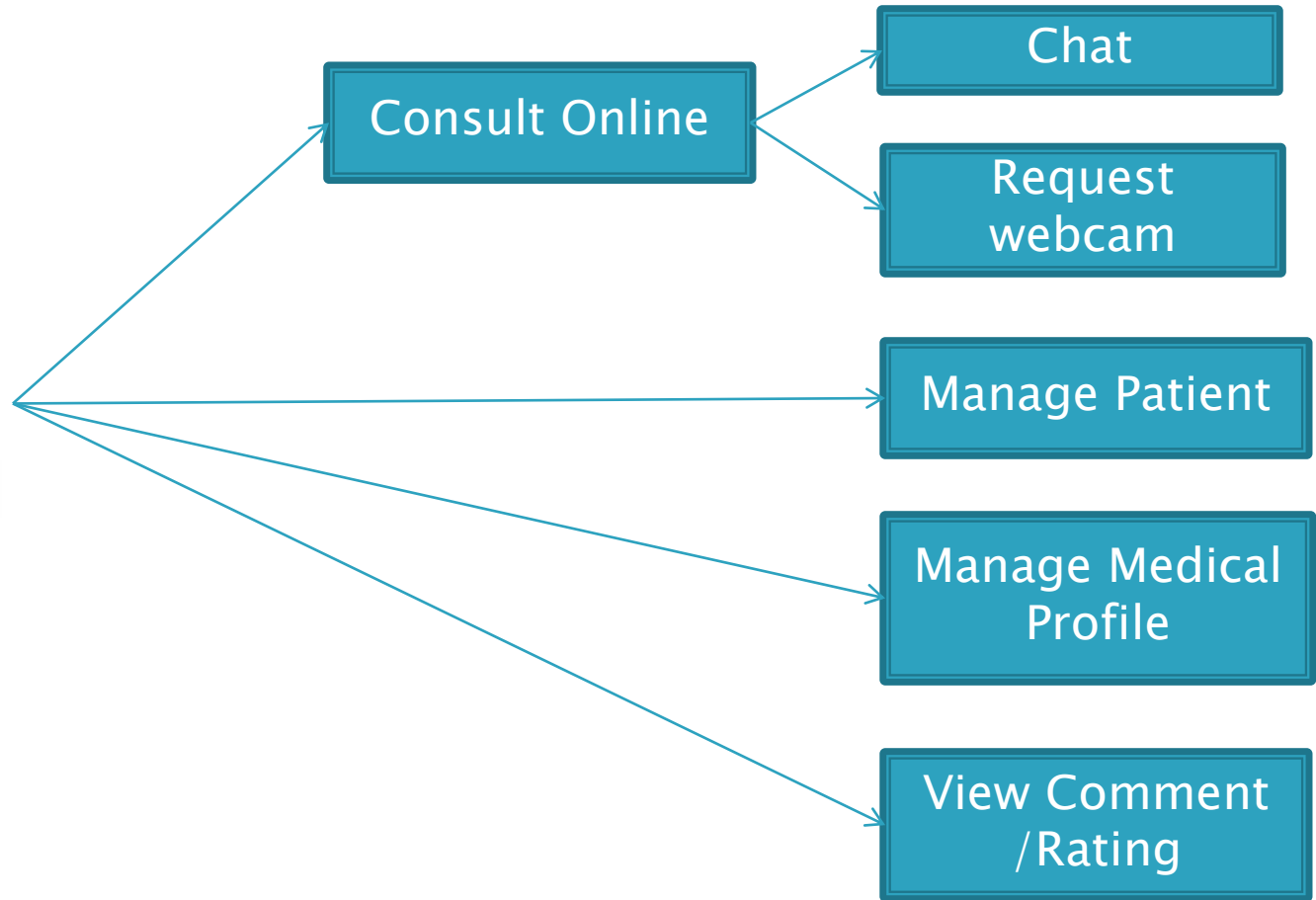
Manage Specialty
Fields

Manage Comment

Main features



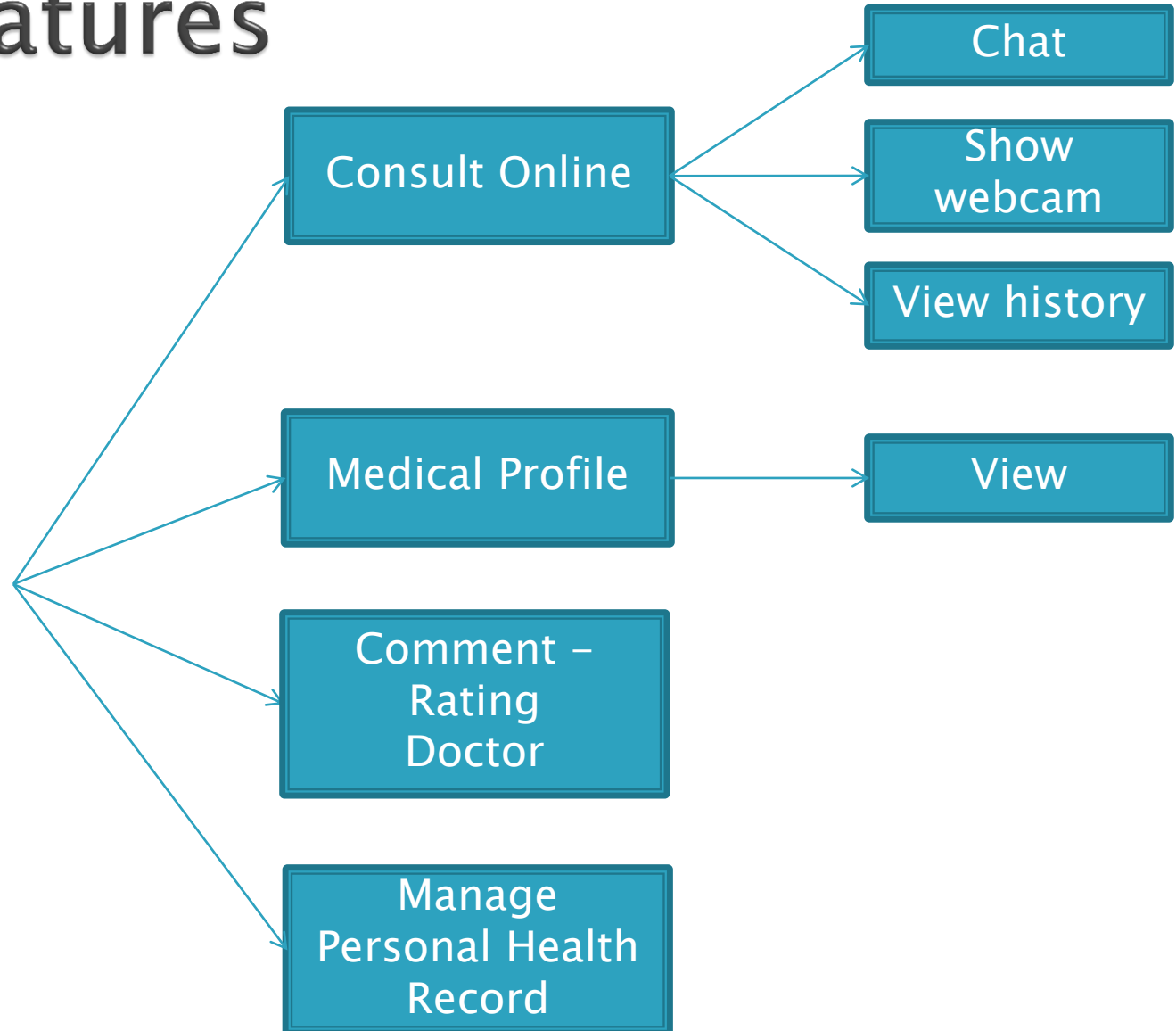
Doctor



Main features

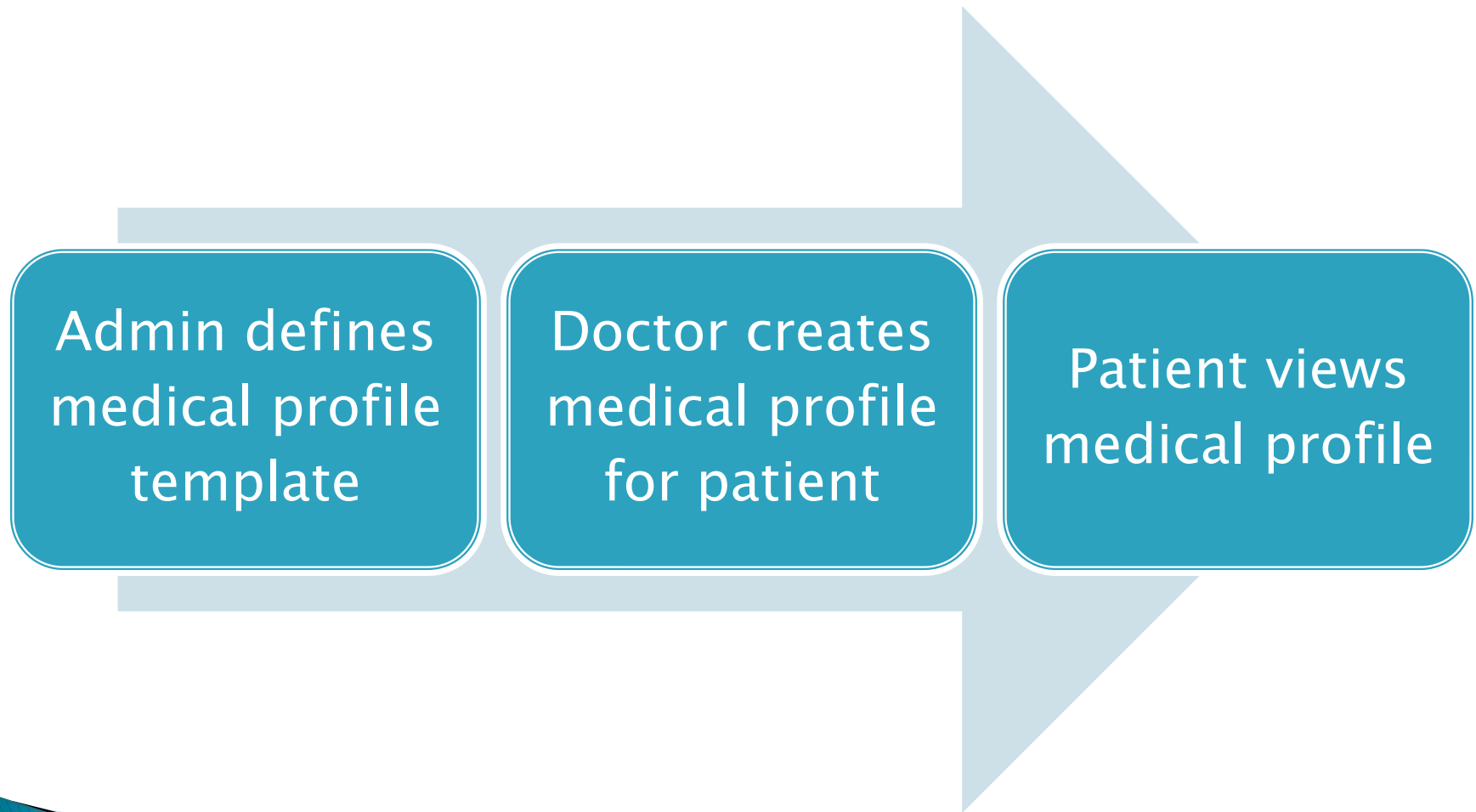


Patient

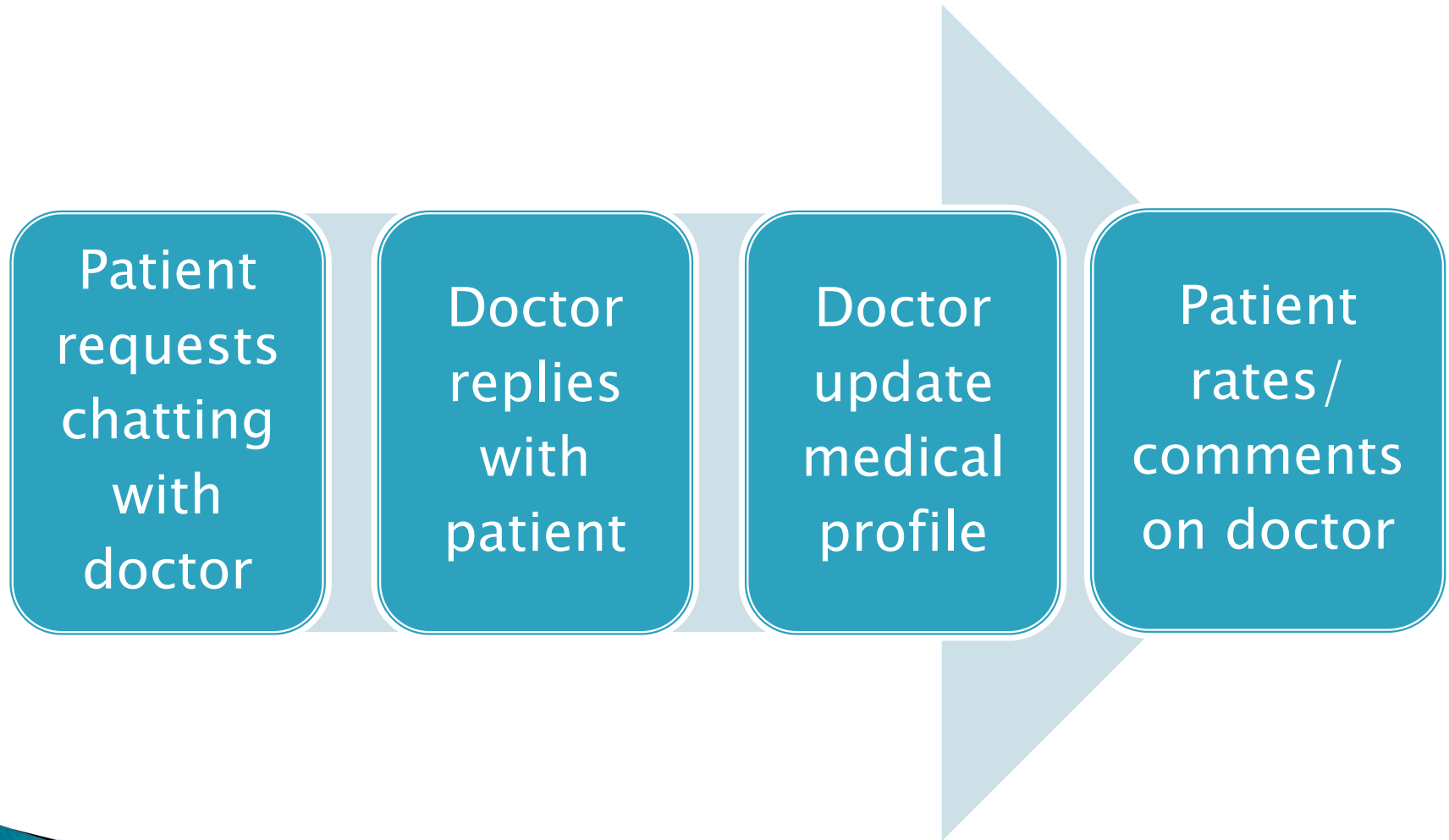


Demo

1. Create Medical Profile^[3]



2. Consult With Doctor



Disadvantages

- ▶ The system is intended for using in one hospital or clinic. This system doesn't support yet:
 - Exporting medical profile.
 - Managing prescription.
 - Managing process of a hospital.
 - Custom layout for medical.
 - Tracking changes in a medical profile
- ▶ This system not intend to replace the current medical treatment processes in hospital.

Future Plan

- ▶ The system is intended for many hospitals to share their medical profile.
- ▶ This system will support:
 - Exporting medical profile.
 - Managing prescription.
 - Managing process of a hospital.
 - Custom layout for medical.
 - Tracking changes in a medical profile

Q & A

Reference

[1]<http://kinhtemoitruong.vn/news/Moi-truong-suc-khoe/Benh-vien-qua-tai-dan-kho-389/>

[2]<http://www.nhandan.com.vn/suckhoe/tieu-diem/item/22586202-bat-an-nhu-vao%E2%80%A6benh-vien.html>

[3]Reference Appendix: Medical Template Demo