# **Scope of Work Plan**

- 1. Aims and Objectives of Application
- 2. Case Template
- 3. Workflow for User
- 4. Available Cases for Current Version
- 5. Timeline and Deliverables
- 6. Team Members

# MedSense! Application Work Plan

**Updated as of 20th December** 

# **Aims and Objectives**

# GOALS of the Application

- 1. MedSense will serve as a platform for <u>written simulation of the diagnostic and management</u> <u>process for common conditions</u> in the outpatient / inpatient setting.
- 2. MedSense will serve as an <u>assistive learning platform in helping students understand their</u> <u>strengths and weaknesses</u> through smart software design, and guide them to work on these gaps in their knowledge.
- 3. MedSense will serve as a <u>collaborative learning platform to encourage sharing of case studies</u> amongst members of the medical community, and to <u>promote responsible mentorship through</u> evidence-based answers and explanations.

# LEARNING OBJECTIVES for Users

- 1. Users of the application should be competent in <u>approach-based history taking and physical</u> <u>examination</u> and in <u>listing down differential diagnoses.</u>
- 2. Users of the application should be confident in <u>discussing relevant investigations and</u> <u>management plans for common medical and surgical conditions.</u>
- 3. Users of the application should be comfortable with sharing cases and their knowledge of the case with their peers / juniors.

# **Case Template**

This case template serves for standardization of the cases written and shared on the application, such that the learning objectives may be achieved by completion of the case.

#### **QUESTION STEM**

**HISTORY TAKING** 

The question stem should provide:

- Biodata of the patient
- **Presenting Complaint**
- Any other relevant details

help users to think through:

The history taking questions should aim to

- Characterization of the presenting complaint
- Risk factors / Etiologies of the presenting complaint
- Possible complications of the complaint / underlying disease process

The history taking stem should succinctly summarize important details to arrive at a list of differential diagnoses.

#### **PHYSICAL EXAMINATION**

The physical examination questions should aim to help users to think through:

- Signs of the various differential diagnoses
- Signs to suggest potential risk factors / etiologies
- Signs to suggest potential complication of underlying disease process
- Signs to suggest ongoing treatment and related complications

#### **PHYSICAL EXAMINATION**

#### **RELEVANT INVESTIGATIONS**

**PLAN** 

The physical examination stem should succinctly summarize the details of a targeted physical examination specific for the differential diagnoses.

The investigations questions should aim to help users to think through:

- Choice of relevant investigations
- Purpose of ordered investigations
- **Necessity of investigations**

This may be in the form of a MCQ question, or an open-ended question as in an MEQ.

# **MANAGEMENT**

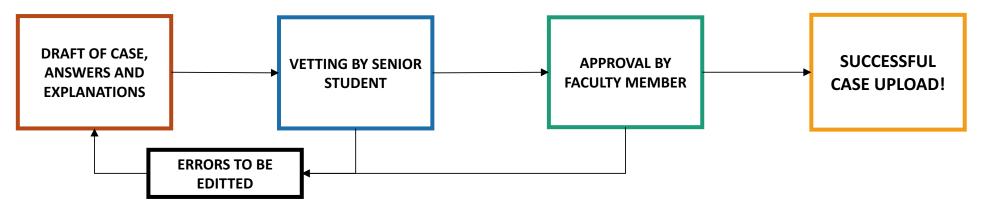
The management questions should aim to help users to think through:

- Possible management options
- Gold standard, if available
- Details of the treatment where necessary

This may be in the form of a MCQ question, or an open-ended question as in an MEQ.

## **Workflow for Users**

Users of the application may opt for either of two roles: (1) attempt the questions in the question bank, or (2) create a case and provide answers and relevant explanations. The former needs no explanation. The workflow for the latter is as detailed.



#### Committee needs to consider:

- 1. Guidelines for Drafting of Cases
  - Format as described in previous slide
  - Any additional details to take note of
- 2. Guidelines for Explanations
  - Format of explanations
  - Need for quoting of sources to increase credibility?
- 3. Choice of Senior Student / Faculty Member to vet
  - Senior student committee or any senior?
  - Faculty member designated panel or any faculty from the specialty?
- 4. Estimated time from Draft to Upload

### **Deliverables**

- 1. Guidelines for Drafting of Cases
- 2. Guidelines for Explanations
- 3. Instructions to User:
  - Workflow for approval
  - Timeframe for approval
  - Accreditation for case upload
- 4. Instructions to Senior Student / Faculty Member:
  - Timeframe to adhere to
  - What to look out for?
- Manual for Case Upload (For SMU side)

## **Timeline**

The timeline for the development of the application is as follows:

**DEVELOPMENT PHASE** 

**BETA TRIAL PHASE** 

Edits to be made to current available cases to match the proposed case template

- Discussion to continue:
  - Guidelines on case and explanation drafting
  - Guidelines on vetting process
- 3. Meeting with SMU and Profs
- Continued development of application on SMU side
- Finalization of:
  - Guidelines on case and explanation drafting
  - Guidelines on vetting process
- web-based application
- Trial-and-comment by:
  - Committee
  - Beta-testers (Academic Directorate?)

**MAY 2018** 

**JUNE 2018** 

**JULY 2018** 

TO BE UPDATED IN THE **FUTURE** 

**MARCH 2018** 

**DECEMBER 2017** 

**JANUARY 2018** 

**FEBRUARY 2018** 

Launch of beta version of the

**APRIL 2018** 

# **Available Cases**

The current cases available for the Beta Version include:



Brought to you by the **MedSense Team** 

