

# ACHELOIS

Group members'  
Names Removed

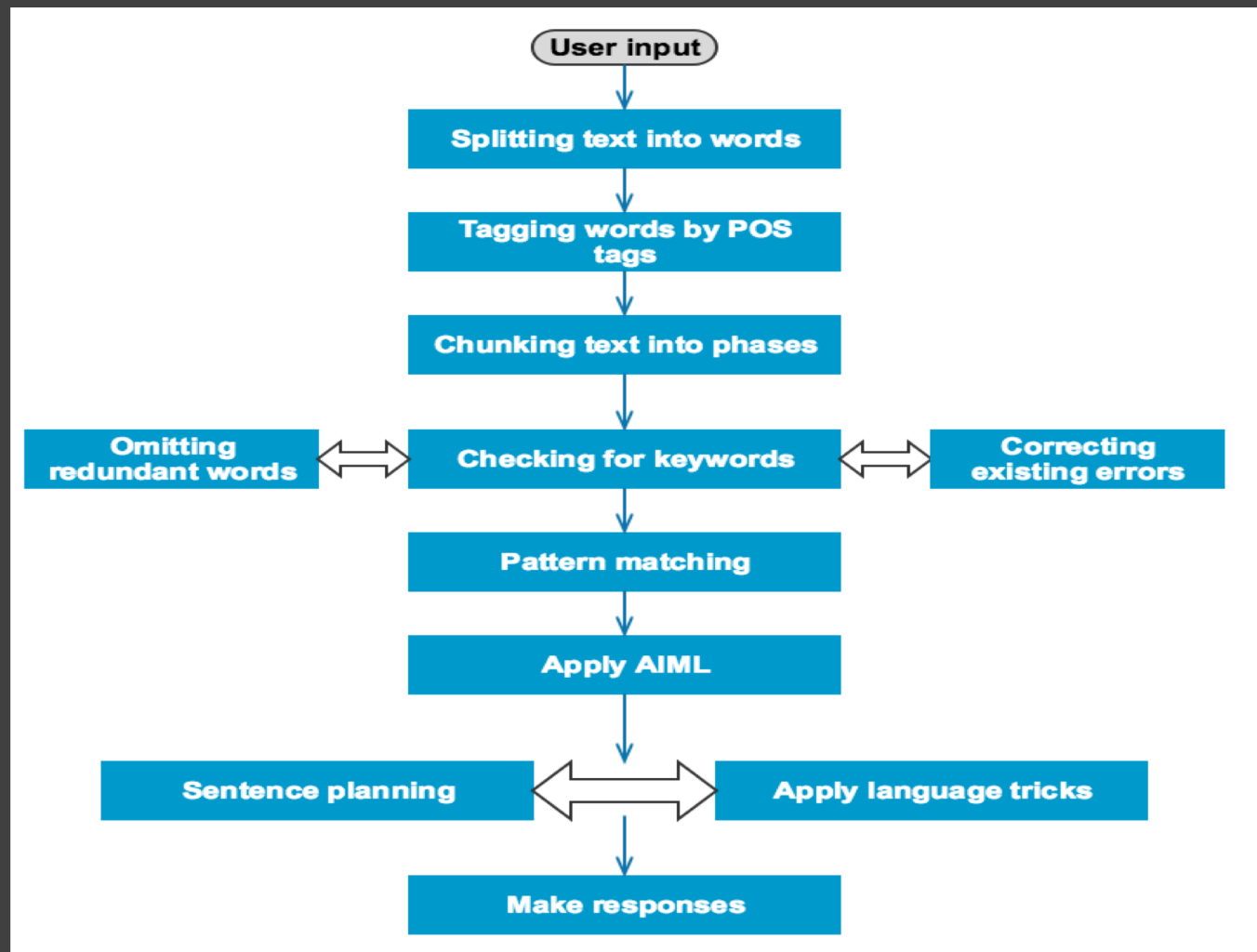
## INTRODUCTION

- Human-Computer Interaction (HCI) researches the design and use of computer technology, focused on the interfaces between people (users) and computers
- A dialog system or conversational agent (CA) is a computer system intended to converse with a human, with a coherent structure
- Chatbots are typically used in dialog systems for various practical purposes and use sophisticated NLP systems

## HOW ACHELOIS WAS BORN?

Achelois was developed using  Dialogflow

Platforms	wit.ai	luis.ai	Dialogflow
Description	<ul style="list-style-type: none"><li>Developed by wit.ai and now, acquired by Facebook.</li></ul>	<ul style="list-style-type: none"><li>Introduced by Microsoft</li></ul>	<ul style="list-style-type: none"><li>Formerly known as api.ai and now, it is a Google acquired platform .</li></ul>
Pros	<ul style="list-style-type: none"><li>Allows control of conversation flow using branches and conditions on actions.</li><li>Request processing for training using “Inbox”.</li></ul>	<ul style="list-style-type: none"><li>More feasible for professional purposes and .NET developers.</li><li>Enhanced functionalities using Microsoft Azure.</li></ul>	<ul style="list-style-type: none"><li>One-click integration with several platforms like Slack, Twitter, Google Assistant etc.</li><li>Built-in voice interface and support for Node.js, Ruby SDKs.</li></ul>
Cons	<ul style="list-style-type: none"><li>wit.ai has integration with Facebook messenger only.</li><li>Difficult to control the flow of the conversation</li></ul>	<ul style="list-style-type: none"><li>luis.ai allows only 10,000 transactions for each month and is priced after that.</li></ul>	<ul style="list-style-type: none"><li>Priced for enterprises requiring high utilization of Dialogflow</li><li>It is impossible to block the matching of an intent if a context is present.</li></ul>



## WHY HEALTHCARE?

Technical advancements in the healthcare domain are growing at a rapid pace. Numerous chatbots are already available in the areas of hotel management, travel, food delivery and home automation.

Development of chatbots that are customized to individual needs will make healthcare widely available. Some chatbots already being used for general healthcare services like Your.MD, Florence and GYANT

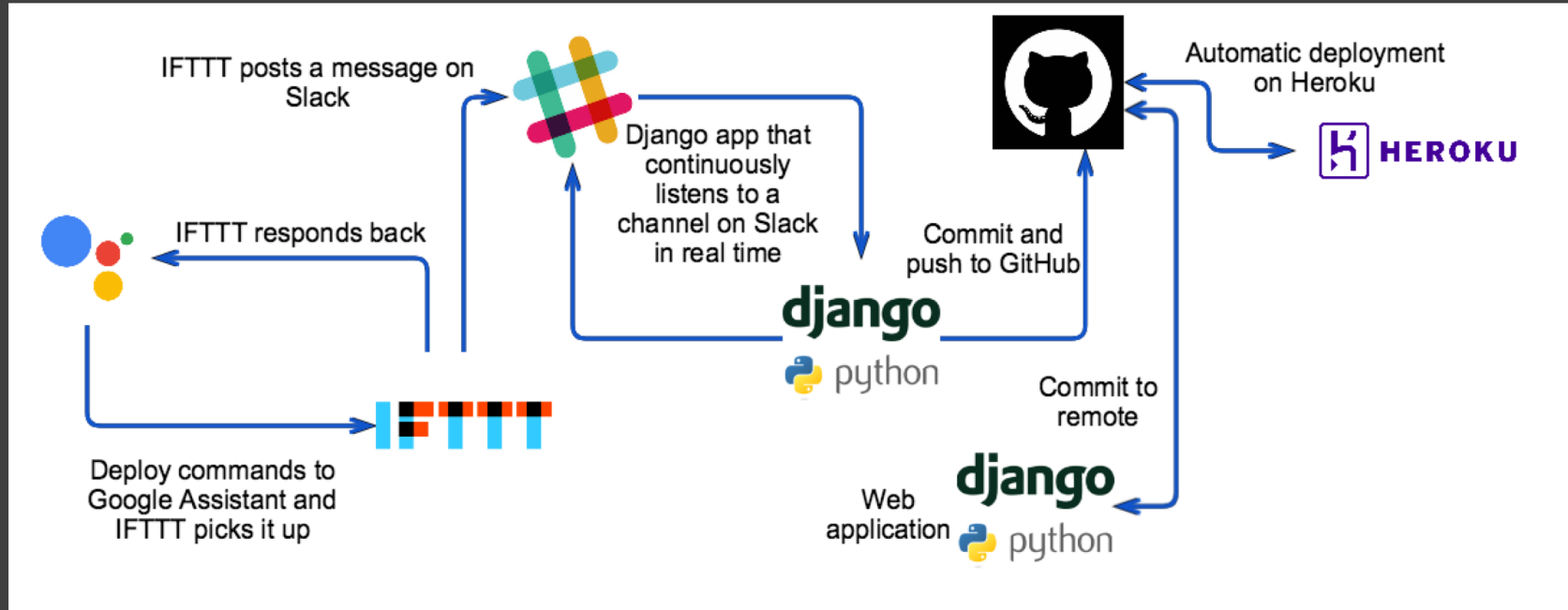
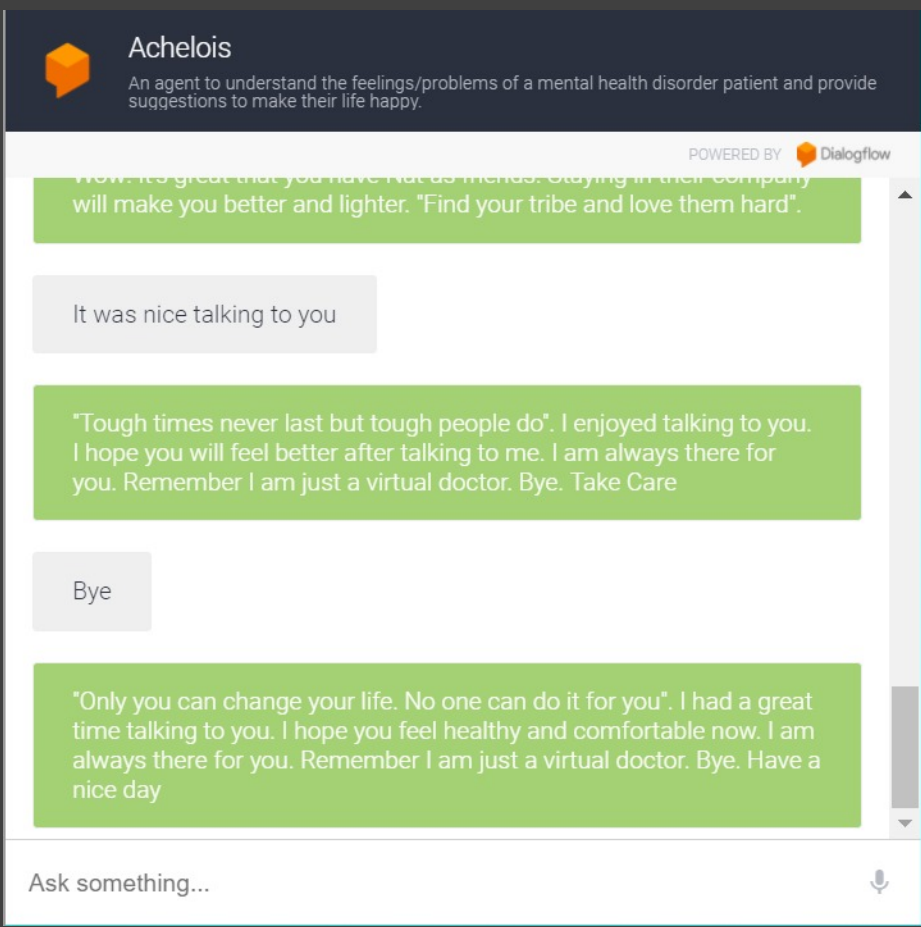
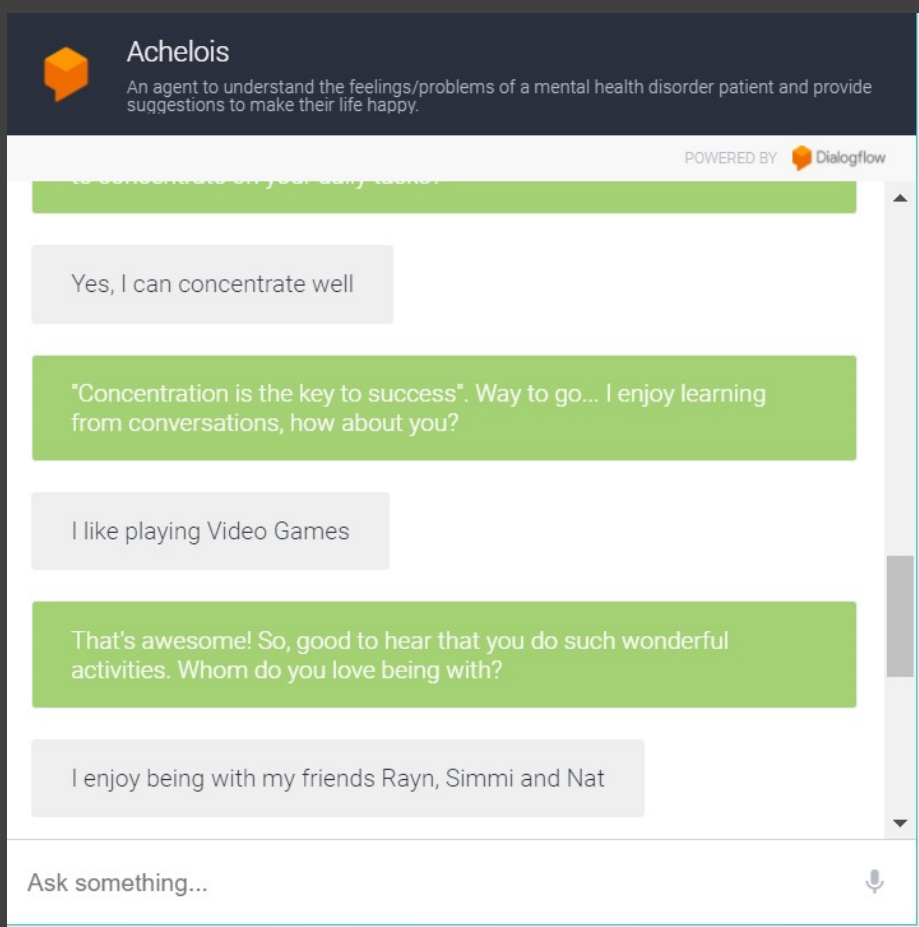
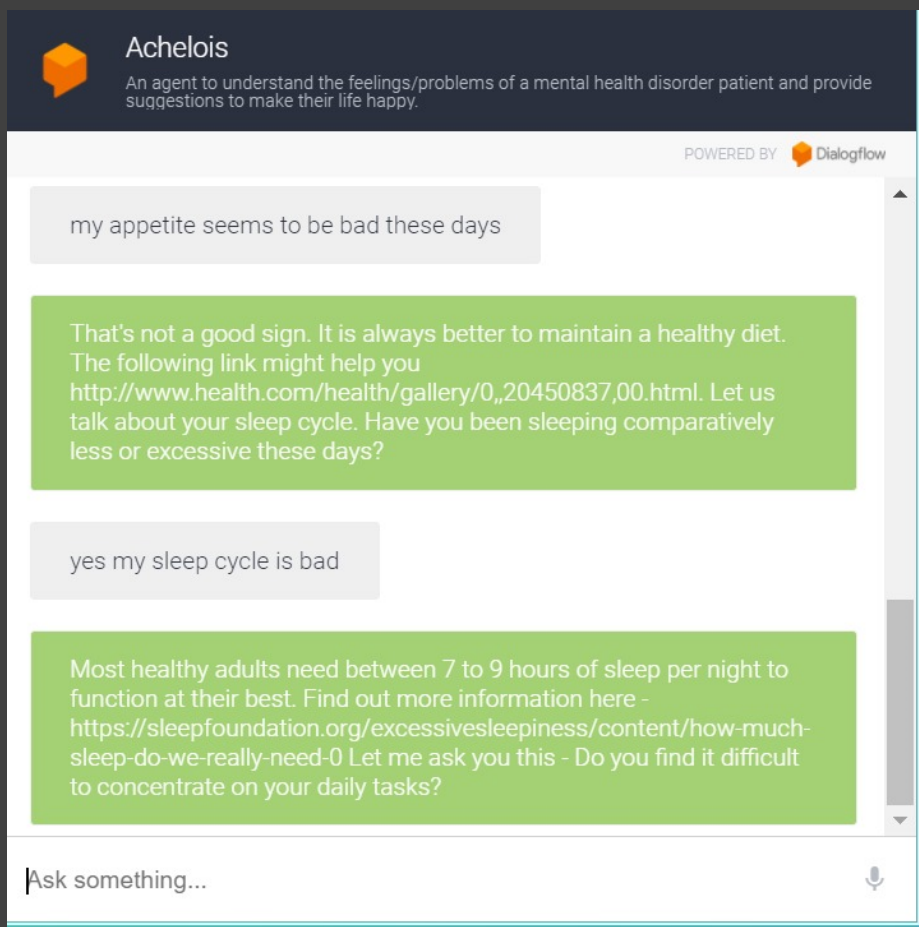
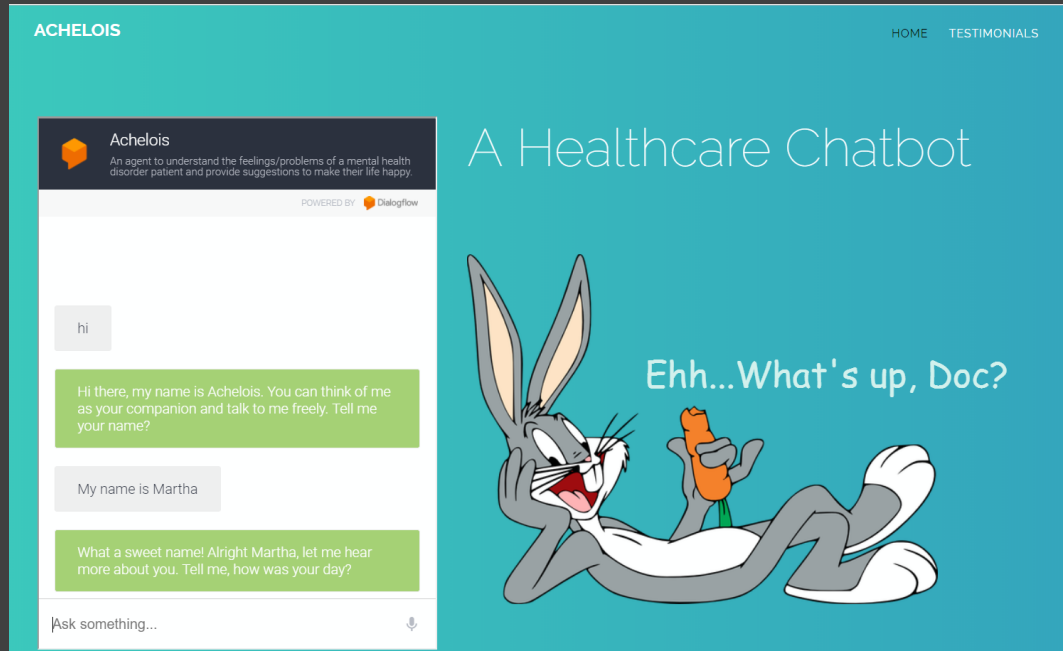
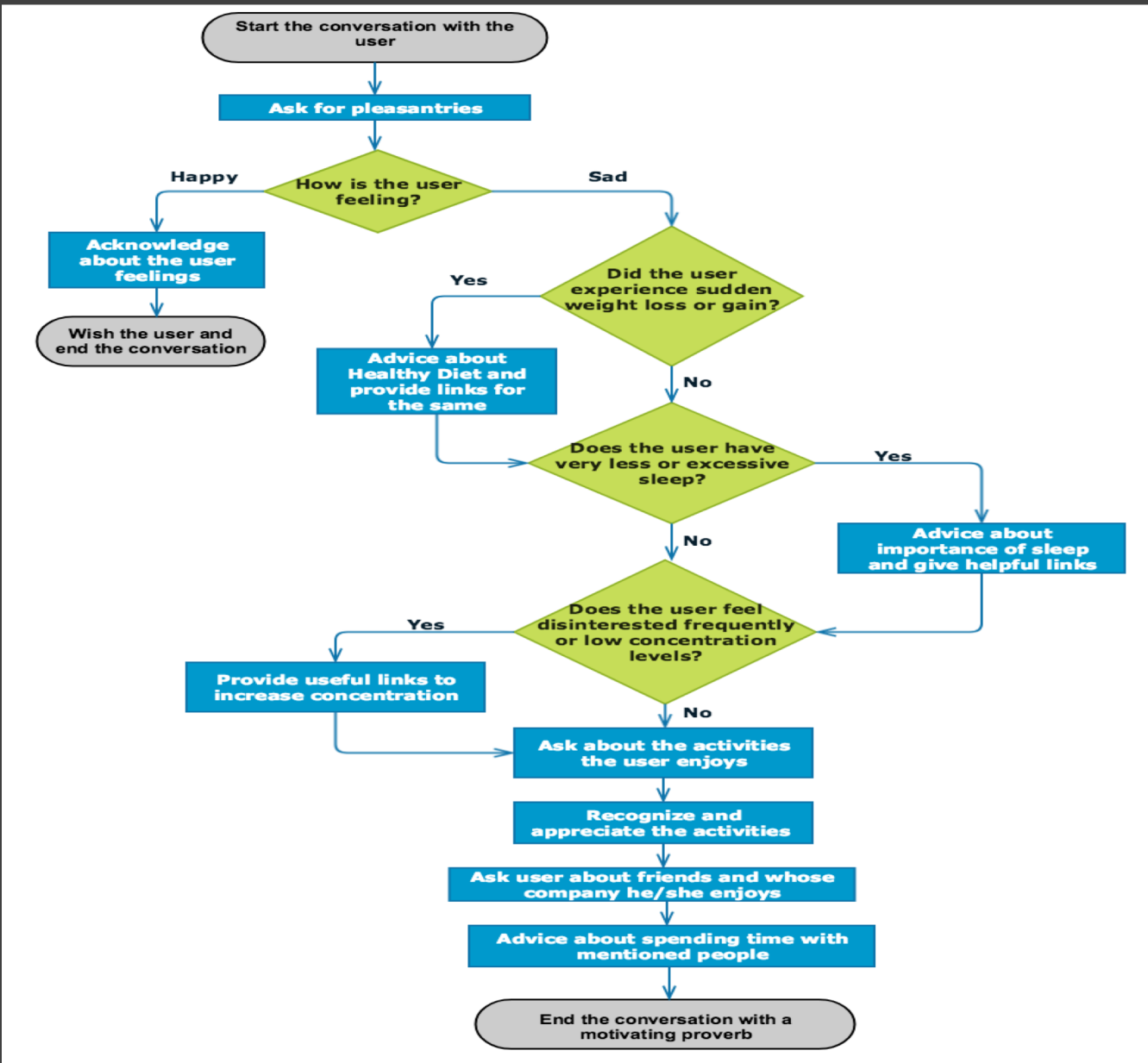
0.0 - getName
1.0 - getMood
10.0 - endIntent
3.0 - getIncident
4.0 - getYesIncident
5.0 - askAppetite
5.1 - yesAppetite
5.2 - noAppetite
6.0 - yesSleepCycle
6.1 - noSleepCycle
7.0 - getNoConcentration
7.1 - getYesConcentration
8.0 - getActivities
9.0 - getFriends
Default Fallback Intent
Default Welcome Intent

bad
ehh...I am ok
Its going really miserable
My day was good I think
It was ok. But I feel better than yesterday
Hmmm....I feel lonely

Text response	
1	It's good to hear that you are \$feelings. When you think positive, good things happen.
2	It's good to hear that you are \$feelings. Don't stop. Push harder. Keep going!
3	It sounds like you are upset. I understand that you are \$negativeFeelings. Let me cheer you up! Is there an incident that's concerning you?
4	It sounds like you are upset. I understand that you are \$negativeFeelings. Let me cheer you up! Is there an incident that's bothering or troubling you.
5	Life is going to be good. I can feel you are \$negativeFeelings. Do you want to share an incident that's causing you sorrow?

- Agents:** can be designed to manage a conversation flow in a specific way
- Intent:** represents a mapping between what a user says and what action should be taken
- Entity:** a powerful tool used for extracting parameter values from natural language inputs
- Context:** is helpful in differentiating phrases which may be vague or have different meanings depending on the user's preferences, location or the topic of conversation. Contexts represent the current context of a user's request

REQUIRED	PARAMETER NAME	ENTITY	VALUE	IS LIST
<input type="checkbox"/>	negativeFeelings	@negativeFeelings	\$negativeFeelings	<input checked="" type="checkbox"/>
<input type="checkbox"/>	date	@sys.date	\$date	<input type="checkbox"/>
<input type="checkbox"/>	duration	@sys.duration	\$duration	<input type="checkbox"/>
<input type="checkbox"/>	feelings	@feelings	\$feelings	<input type="checkbox"/>



## FUTURE OF CHATBOTS IN HEALTHCARE

- The most challenging aspect of advancement in the development of chatbots is that, tools in healthcare must meet our basic technology expectations, informing and connecting, but they must also comfort us in our time of need. They must make things bearable, hopeful
- Another challenge with respect to healthcare domain in general is that the data is sparse. Even if large datasets are available, it is difficult to feed them to the bot as the responses from patients are unpredictable