

EE FYP Competition

CHATBOT-ASSITED MOBILE LEARNING

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objective

Increase students participation



Personal Assistant



Processing large amount of data



methodology

Microsoft Azure

It is a cloud service provider for hosting app. It includes database, app service, virtual machine, etc.

Azure SQL Database

It is used to store the users and replies data. Managed by SQL query

Slack

It is a communication tools for workspace or school. It provides different apps for the user and extend its functionality

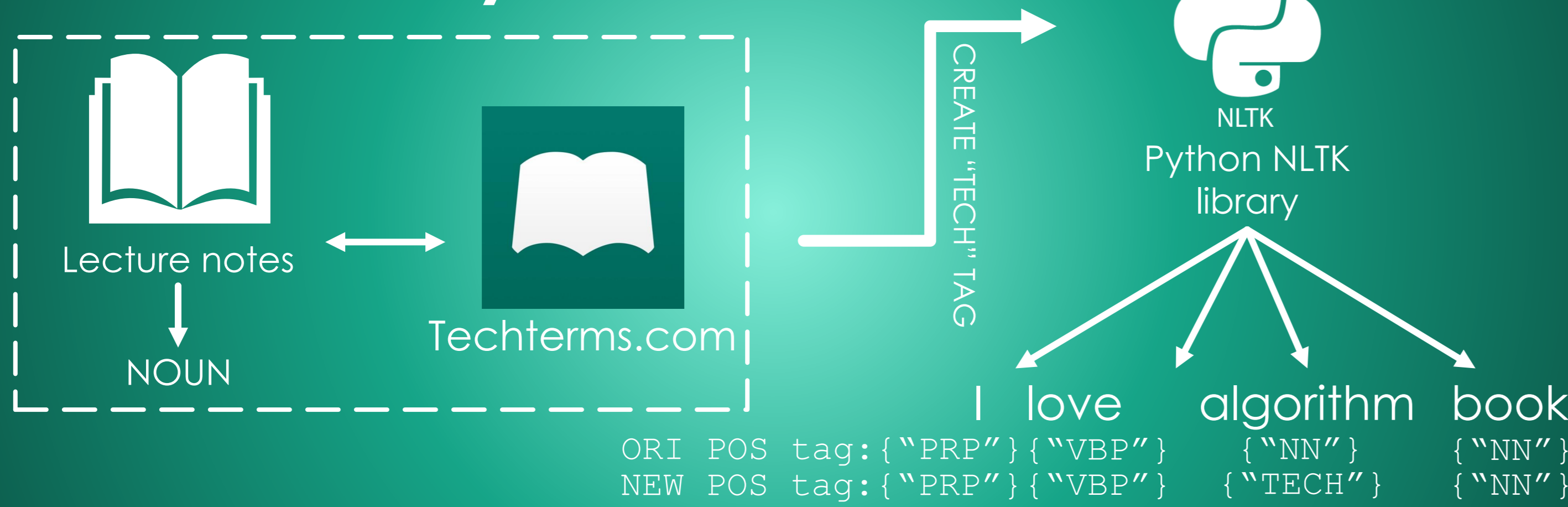
API

It is used to provide JSON format to allow the chatbot to access. Python program (Flask) is used to achieve

Bot Framework

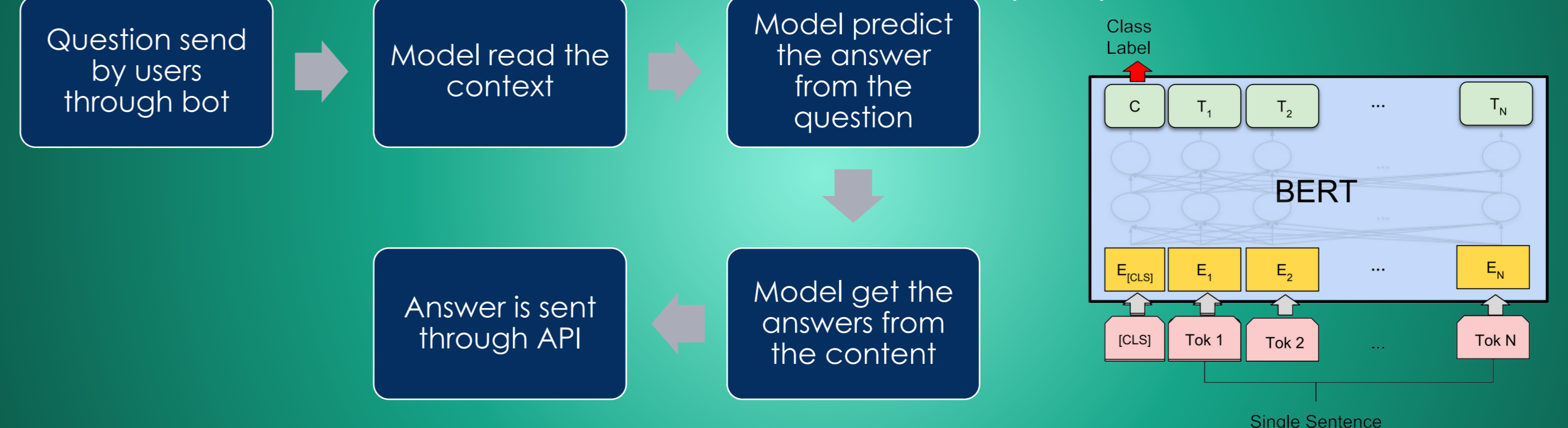
It is used to develop chatbot. It provides tools like composer and emulator.

Chat Analyzer



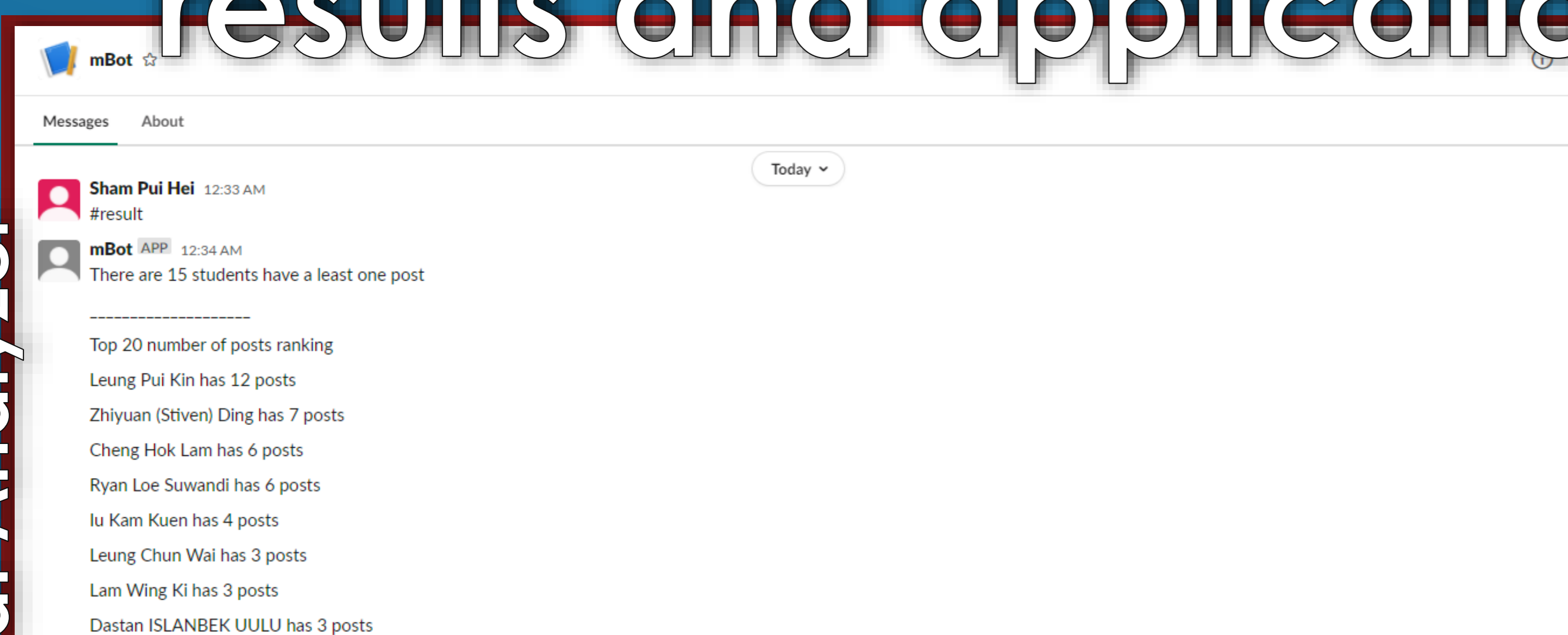
Question-answering

Model used: Bidirectional Encoder Representations from Transformers (BERT)



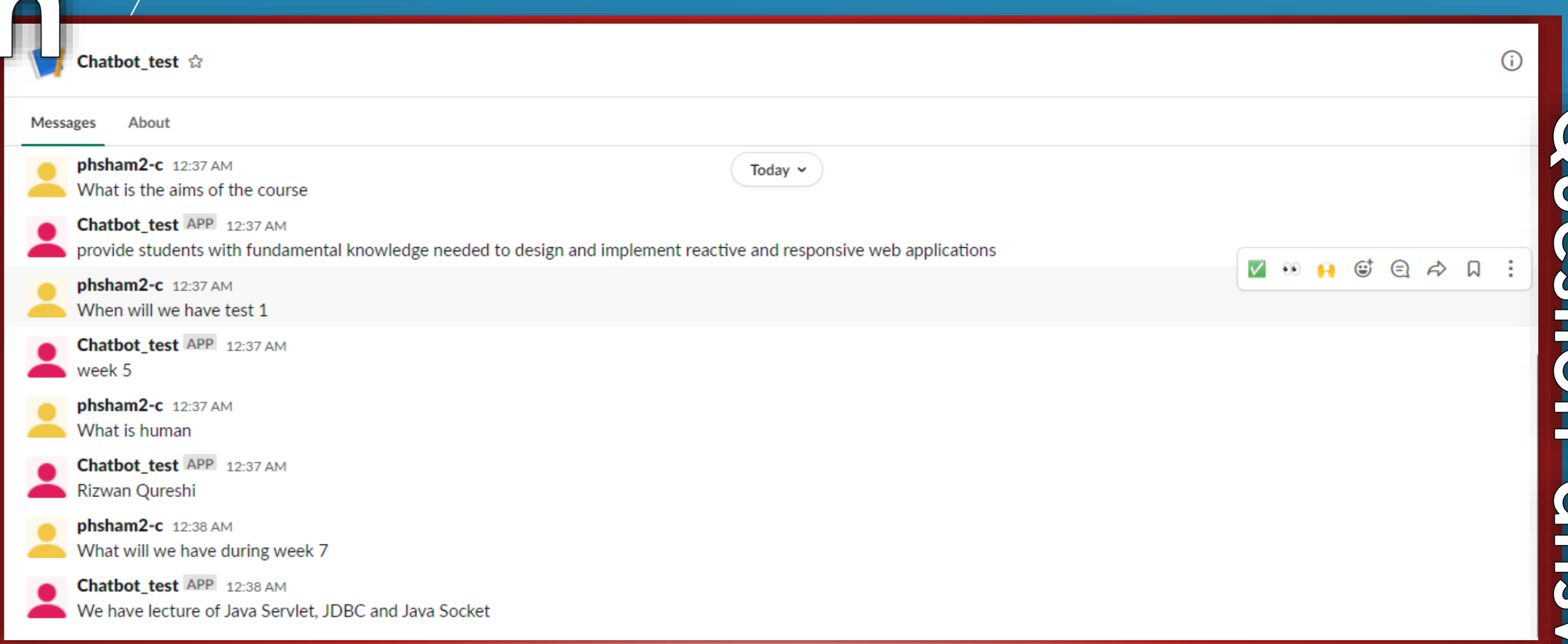
results and application

Chat Analyzer



Marks	Length	Messages	ts
0	11	guess we'll have to wait for peer review or some tips	1611044462.044900
1	23	So could I know how does he mean the difference of an array of size 3? I haven't taken the tutorial yet (tmr)	1611044502.045700
0	7	i didnt even take the tutorial either	1611044519.045900
1	20	In the questions it says, minimum difference is defined as difference between the largest and smallest values...	1611044572.048500
0	4	(1,8,7,4) -> [(1,8,7), (1,7,4)...]	1611044573.048700

* Tested in EE2331 Slack Channels



KEY	VALUE	KEY	VALUE
Question	When is test 2	Question	When are test 2 going to held
Body	Raw Preview Visualize JSON	Body	Raw Preview Visualize JSON
1	"answers": "week 18",	1	"answers": "week 18",
2	"score": 0.8283	2	"score": 0.765
3		3	
4		4	

Question-answering