



A new generation
of learning

What is Qgen?

Qgen is a tool that automatically **generate Multiple Choice Questions (MCQ)** from any text with the aim to **increase efficiency of training and learning**



Target Audience



- MINDEF's Training and Learning Domain
- Teachers & Students

Competitors



**Free AI Powered Questions
Generator**



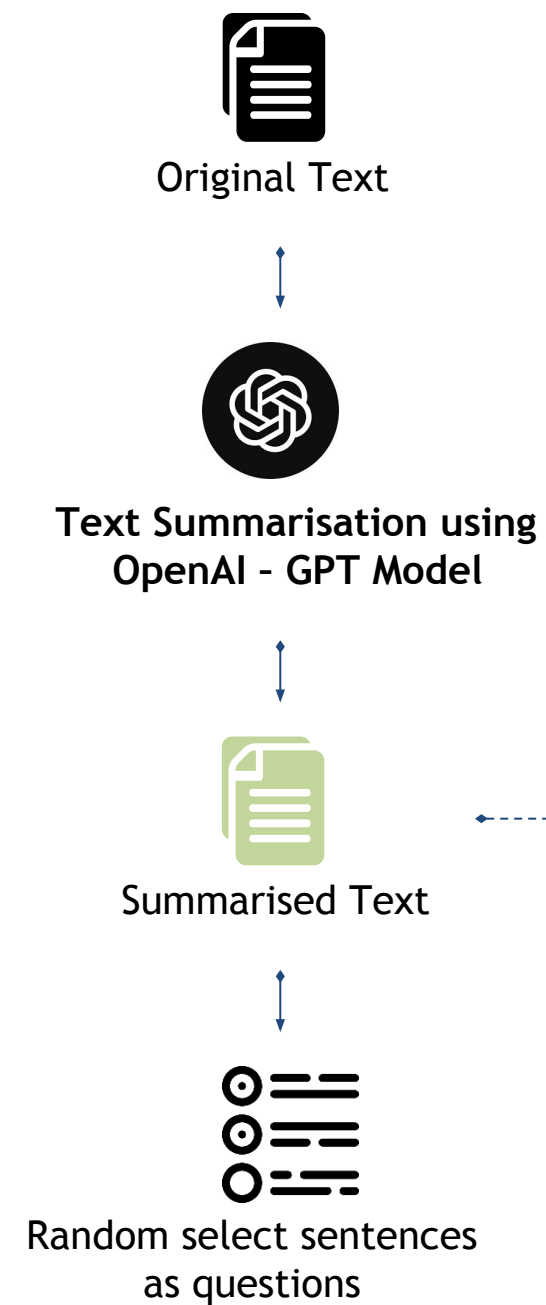
Our Competitive Edge



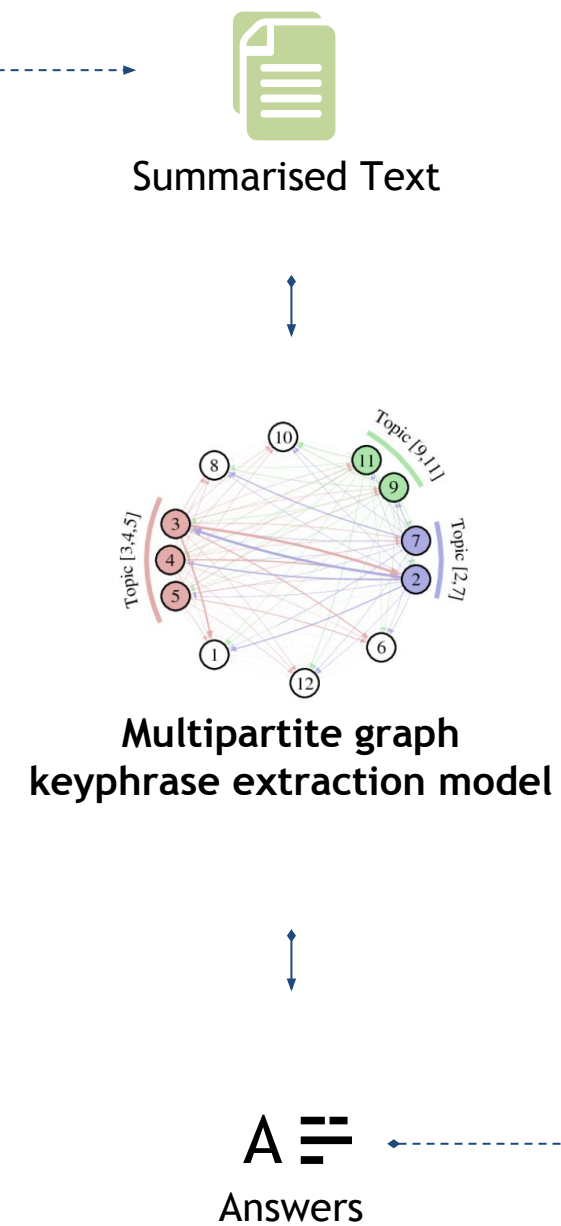
Data security

Qgen: Data Science Approach

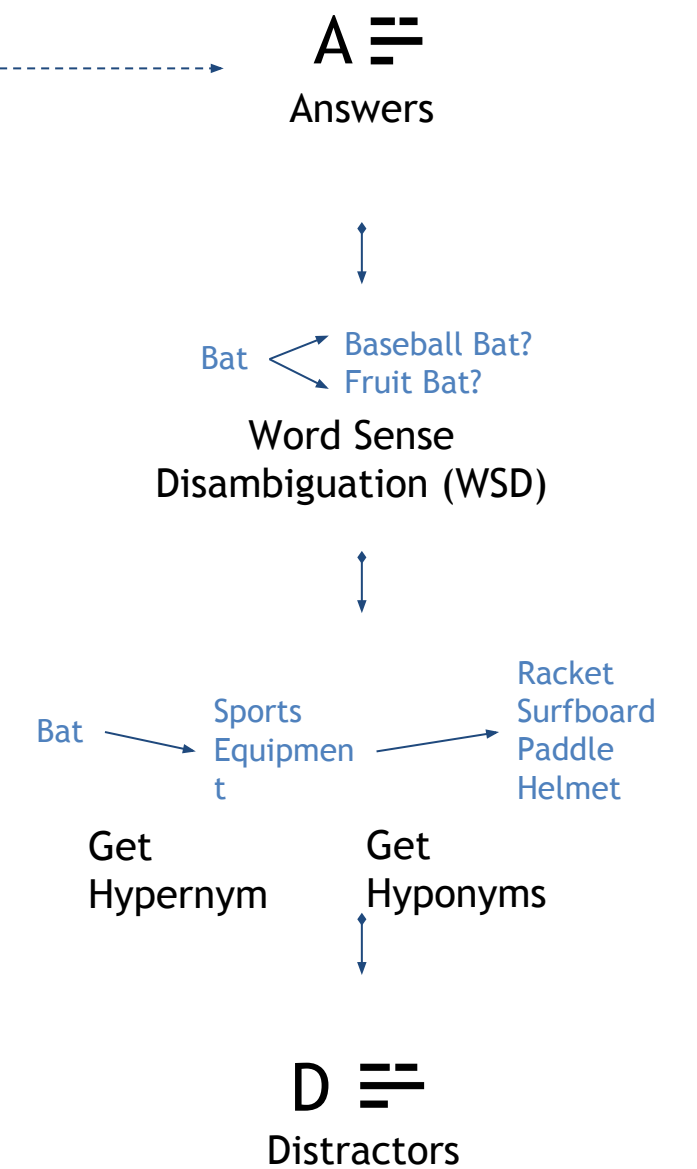
Question



Answer



Distractors



Some Generated Examples

Good Examples

Q4: Give one shock, then restart _____ — starting with chest compressions — for two more minutes before giving a second shock.

- ☐ A: Artificial Respiration
- ☐ B: Heimlich Maneuver
- ☒ C: Cpr
- ☐ D: Cardiac Massage

Q7: Airway: Open the airway If you're trained in CPR and you've performed 30 chest compressions, open the child's airway using the head-tilt, _____ -lift maneuver.

- ☒ A: Chin
- ☐ B: Jowl
- ☐ C: Cheek
- ☐ D: Temple

Q10: The lack of oxygen-rich blood can cause _____ in only a few minutes.

- ☐ A: Penetrating Trauma
- ☐ B: Bump
- ☒ C: Brain damage
- ☐ D: Fracture

Bad Examples

Incorrectness of the distractors' contexts

Q22: Cyber stalking is an act of stalking, harassing or threatening someone using Internet/computer as a _____ .

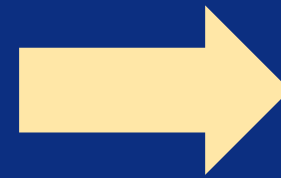
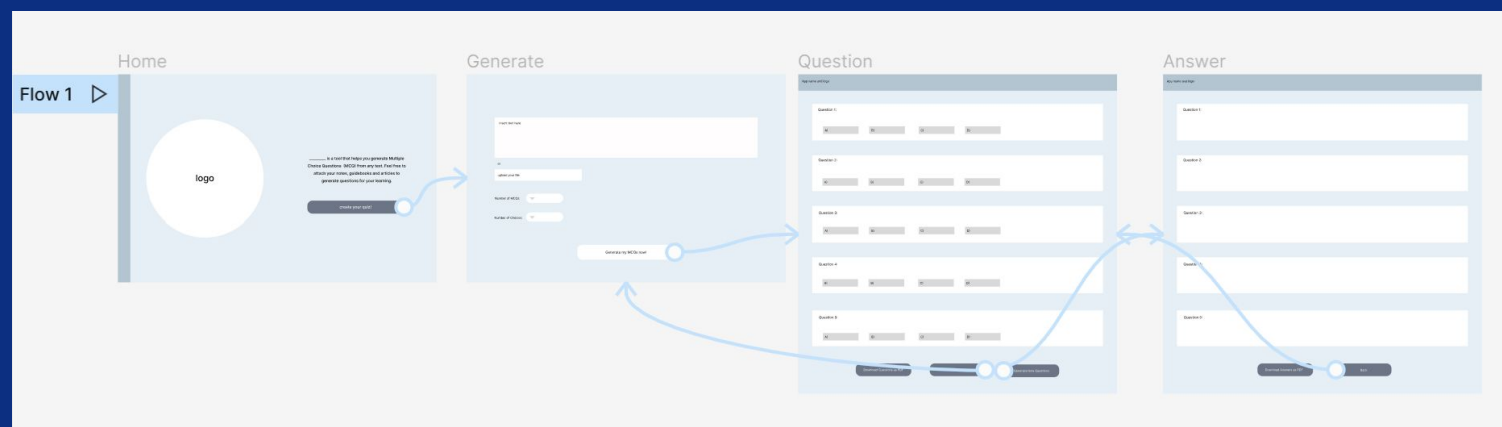
- ☐ A: Phlogiston
- ☒ B: Medium
- ☐ C: Chemical Element
- ☐ D: Essence

Q2: Be careful not to provide too many breaths or to breathe with too much _____ .

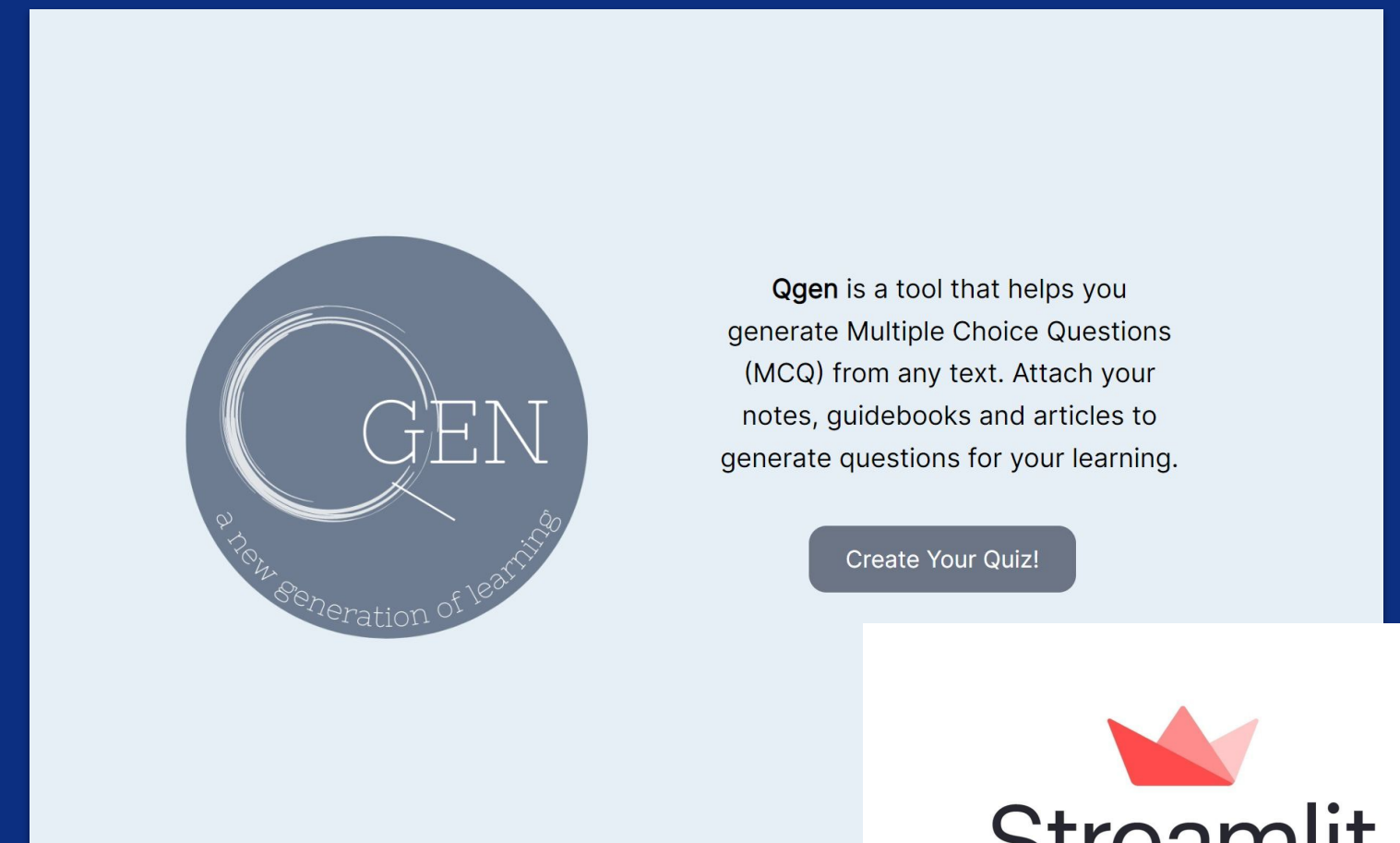
- ☐ A: Chop
- ☒ B: Force
- ☐ C: Resolution
- ☐ D: Acoustic Phenomenon

Qgen: UI Demo

Low Fidelity Prototype



Web Application



Streamlit

Qgen: UI Features

- Customise context
- Customise number of MCQ questions and options

Generate MCQs

Step 1: Add your texts

Input your text:

Your text here...

or

Choose a file:

Drag and drop file here

Limit 200MB per file

Browse files

Step 2: Select number of questions

Number of MCQs (from 1 to 50)

1

-

+

Step 3: Select number of options

Number of Options per MCQ (from 4 to 6)

4

-

+

Generate my MCQs now!

- Platform to do the MCQ

Generated MCQs

Q1: _____ the lower palm (heel) of your hand over the center of the person's chest, between the nipples.

☒ A: Blind Spot
☐ B: Topographic Point
☐ C: Hot Spot
☐ D: Place

Q2: Be careful not to provide too many breaths or to breathe with too much _____.

☒ A: Chop
☐ B: Force
☐ C: Resolution
☐ D: Acoustic Phenomenon

Q3: Cardiopulmonary resuscitation (CPR) is a lifesaving technique that's useful in many emergencies, such as a heart attack or near drowning, in which someone's breathing or _____ has stopped.

☒ A: Tide
☐ B: Heartbeat
☐ C: Repeat
☐ D: Pulse

Q4: If you are untrained and have immediate _____ to a phone, call 911 or your local emergency number before beginning CPR.

☒ A: Passage
☐ B: Lane
☐ C: Stairway
☐ D: Access

Q5: Cardiopulmonary resuscitation (CPR) is a lifesaving technique that's useful in many emergencies, such as a _____ or near drowning, in which someone's breathing or heartbeat has stopped.

☒ A: Hysteries
☐ B: Flare
☐ C: Seizure
☐ D: Heart attack

Submit Answers Download MCQs as PDF Generate New Questions

Answers

Your score: 2/5

Q1: _____ the lower palm (heel) of your hand over the center of the person's chest, between the nipples.

☒ A: Blind Spot
☐ B: Topographic Point
☐ C: Hot Spot
☐ D: Place

Wrong!

Q2: Be careful not to provide too many breaths or to breathe with too much _____.

☐ A: Chop
☒ B: Force
☐ C: Resolution
☐ D: Acoustic Phenomenon

Correct!

Q3: Cardiopulmonary resuscitation (CPR) is a lifesaving technique that's useful in many emergencies, such as a heart attack or near drowning, in which someone's breathing or _____ has stopped.

☐ A: Tide
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Correct!

Q4: If you are untrained and have immediate _____ to a phone, call 911 or your local emergency number before beginning CPR.

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Wrong!

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Wrong!

Submit Answers Download MCQs as PDF Generate New Questions

- Download MCQ and answers for usage

MCQ Questions

(1) _____ the lower palm (heel) of your hand over the center of the person's chest, between the nipples.

A) Blind Spot

B) Topographic Point

C) Hot Spot

D) Place

(2) Be careful not to provide too many breaths or to breathe with too much _____.

A) Chop

B) Force

C) Resolution

D) Acoustic Phenomenon

(3) Cardiopulmonary resuscitation (CPR) is a lifesaving technique that's useful in many emergencies, such as a heart attack or near drowning, in which someone's breathing or _____ has stopped.

A) Tide

B) Heartbeat

C) Repeat

D) Pulse

Answers

(1) D

(2) B

(3) B

(4) D

(5) D

Future Development

Current

Q19: Denial of Service Attack is a cyber attack in which the _____ is chocked and often collapsed by flooding it with useless traffic and thus preventing the legitimate _____ traffic.

- ☒ A: Organism
- ☐ B: Network
- ☐ C: Language System
- ☐ D: Nonlinear System

Q22: Cyber stalking is an act of stalking, harassing or threatening someone using Internet/computer as a _____ .

- ☐ A: Phlogiston
- ☒ B: Medium
- ☐ C: Chemical Element
- ☐ D: Essence

Possible Improvements

Increase question types
e.g. True/False, Multiselect

Improve the model to get
more relevant distractors

Star Team



Andy Ang



Ng Hui Ling



Koh Yi Jing



Solomon Heng

Codes & Demo

<https://github.com/nghuiling/Qgen>