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Work on grading service for Textbook/Learning platform

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- Problem: Andrew from FlyHigh University wants to set an assignment on the Qubit topic for his course on Quantum Computing. Steps he needs to follow:
 - Provide JSON formatted input to the Qiskit development backend team.
 - Then it has to be stored under proper file structure for grading and showing purpose
 - All these steps has to be done manually without a single typo
 - UI has to render the assignment based on the complex user formatted JSON
 - All assignments/exam information is getting stored in the github repository



- Solution: We, QAMP team introduced a way to tackle this and scale this unique problem
 - Introduced a simple way to add new questions under an assignment via API request or UI
 - All unique questions will get stored in the MongoDB
 - CRUD operations based APIs will be able to handle addition, updation, deletion and listing of questions on large scale
 - Following is an example of question addition

```
"text":"QC is great or not?",

"type":"code",

"code": {

"metadata":{

"id': "ps1-quiz-2",

"grader_answer": "qc",

"grader_id": "textbook_practice_exam/problem2a"

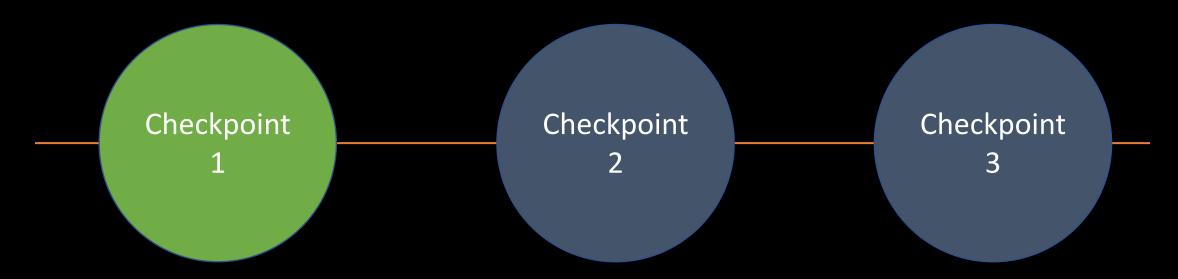
},

"source": "from qiskit import *\n# Start your work here.\n# We've provided the circuit that is shown above\n# Your circuit MUST be named qc\nqc = QuantumCircuit(2)\nqc.draw

()"

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```

Plan of action



- 1. Understanding problem
- 2. API Design
- 3. CRUD Implementation
- 4. Database Setup

- Integrate APIs with the repository
- 2. Making Prod DB connections and API Live
- 3. UI Work start

1. UI Implementation



Questions?