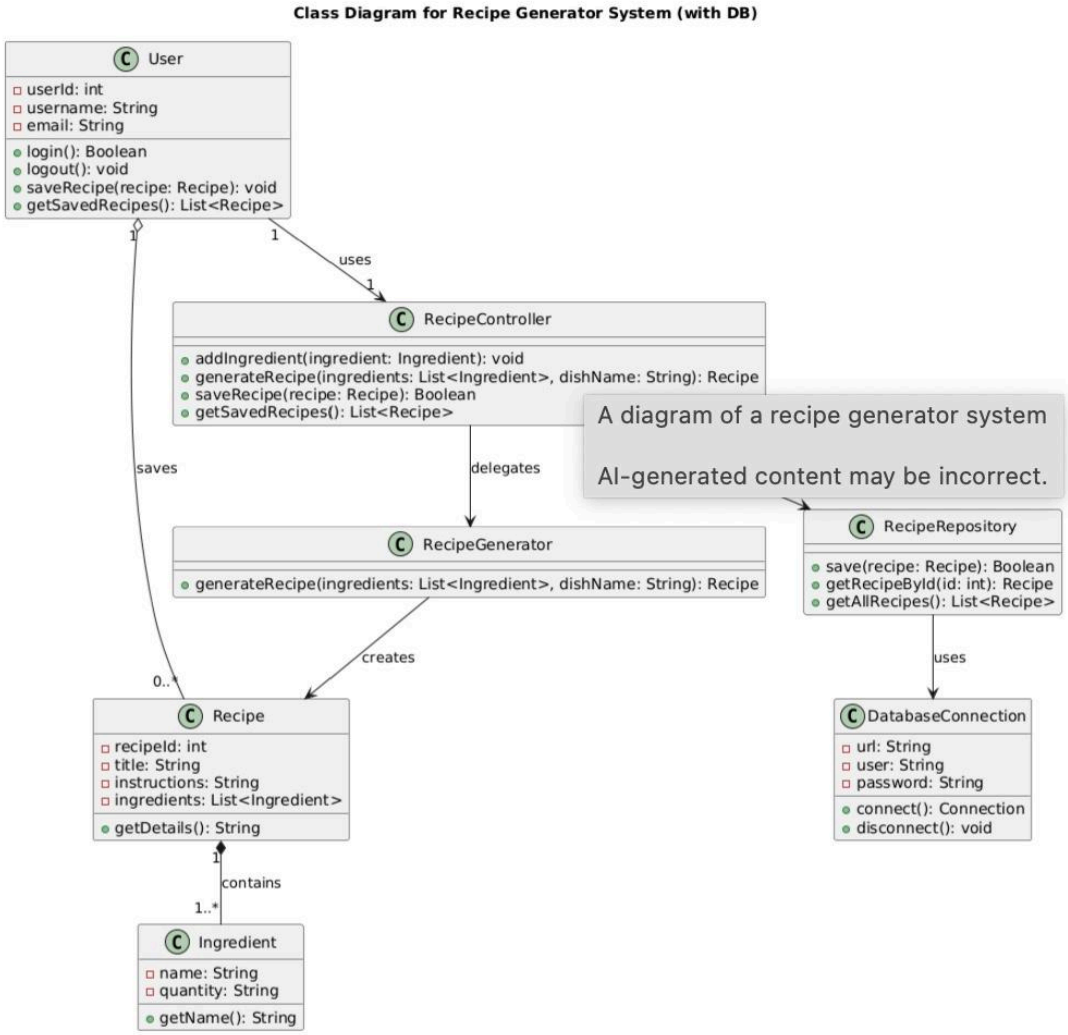
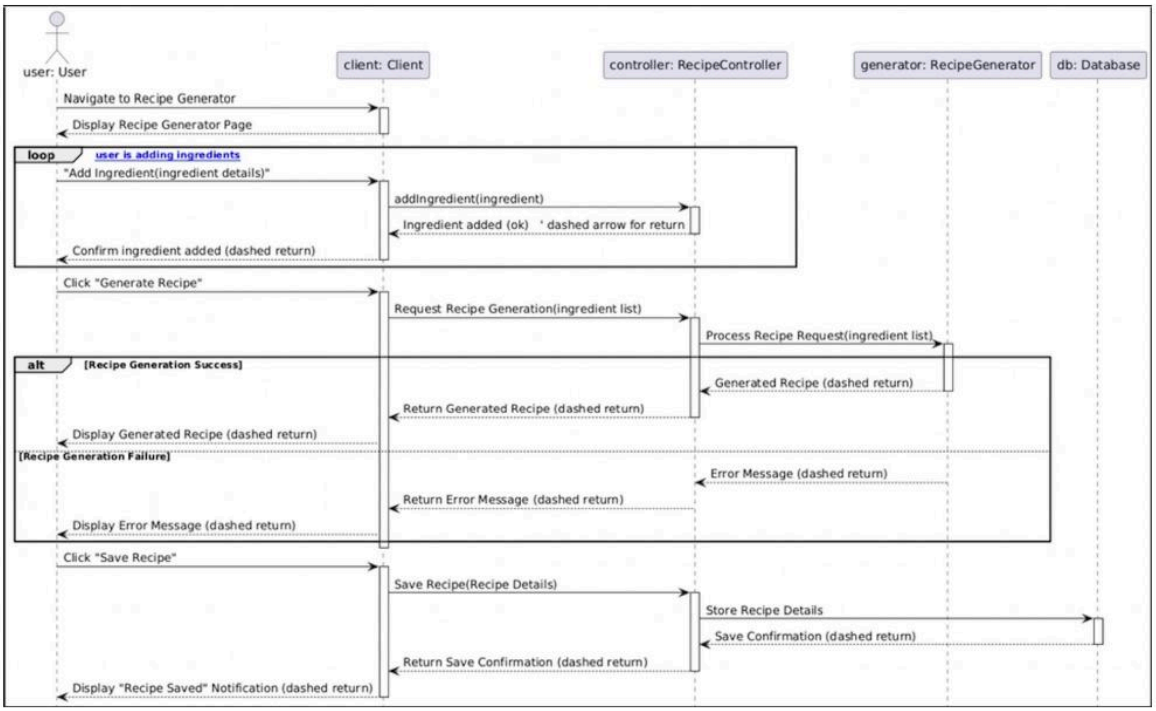
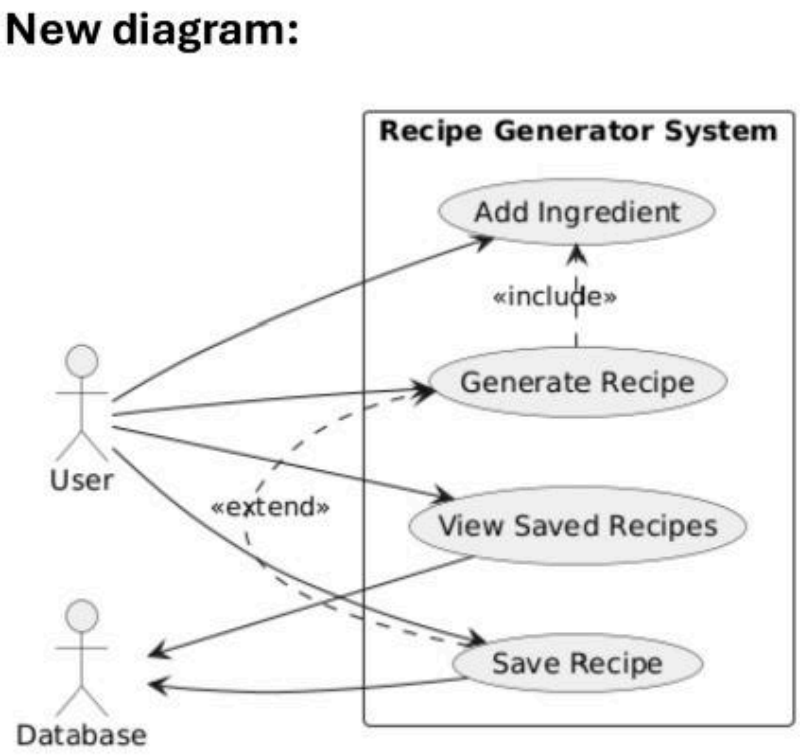
Class diagram:



Sequence diagram:



Use Case diagram: