**Flashcard App (Backend User Stories)**

**Learning objective:** Use Django REST API to build a flashcard backend server that will enable CRUD functionality for a client application.

**Technologies:** Python, Django REST API Framework, MySQL

**Total project points:** /40

**Total weighted points to final grade (including backend and frontend user stories):** /100

(5 points) As a database designer, I want to create an entity-relationship diagram (ERD) for my database to store flashcards and collections of flashcards.

**Collection Endpoints**

(5 points) As a developer, I want to create a GET endpoint that responds to a request that retrieves all of the collections.

(5 points) As a developer, I want to create a POST endpoint that receives a new collection object through the request’s body and adds it as a new record in the collections table in my database.

**Flashcard Endpoints**

(5 points) As a developer, I want to create a GET endpoint that takes in a collection’s id as a parameter through the request’s URL and responds with that collection’s cards.

(7.5 points) As a developer, I want to create a POST endpoint that does the following:

* takes in a collection id
* receives the properties and values that are for a new card through the request’s body
* add the new card as a record to the Flashcard table that has a FK reference to the correct collection

(7.5 points) As a developer, I want to create a PUT endpoint that does the following:

* (1)takes in a collection’s id and flashcard’s id as a parameter through the request’s URL  
  OR  
  (2)takes in a flashcard’s id as a parameter through the request’s URL
  + (1) Example: /api/collections/4/cards/8  
    (2) Example: /api/flashcard/8
* receives the properties and values that are to be updated through the request’s body
* Modified the flashcard record in my database

(5 points) As a developer, I want to create a DELETE endpoint that takes in a collection and flashcard id as a parameter through the request’s URL and removes the flashcard from the Flashcard table in my database.

OR

As a developer, I want to create a DELETE endpoint that takes in a flashcard id as a parameter through the request’s URL and removes the flashcard from the Flashcard table in my database