## Project 4 – Poker Game App

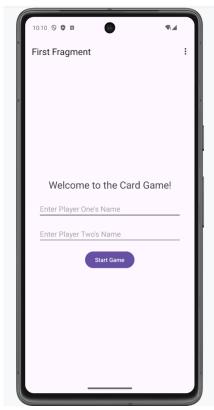
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## **Description:**

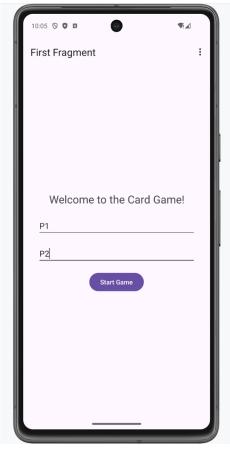
My application creates a poker game for two players. When the game starts, they will get two cards from a deck randomly, and the player with bigger value of card earn 1 point.

Here's how my application meets the task requirements:

- 1. Implement a native Android application
  - a. Has at least three different kinds of views in the layout, including TextView, EditText, ImageView, and Button.
    - Here's a screenshot of the layout before the new deck of card has been created



b. Here's a screenshot of the user entering the name of the two players



- c. My application does an HTTP GET request and an HTTP POST request in CardServlet.java. The GET request is <a href="https://didactic-space-memory-657q67946j4crp9q-8080.app.github.dev/card?uuid=805d5f61-9aa8-427e-8a6b-bd1c6da47a63">https://didactic-space-memory-657q67946j4crp9q-8080.app.github.dev/card?uuid=805d5f61-9aa8-427e-8a6b-bd1c6da47a63</a>, where uuid is the Universally Unique Identifier that each game session generates. The POST request is "", with no parameters but with uuid in request body.
- d. An example of the JSON response is:

```
{
    "success": true,
    "deck_id": "3v1kls55n9kq",
    "remaining": 52,
    "shuffled": true
}
```

e. Here's the screenshot after the card has been returned.



f. The players can keep drawing the card without restarting the application.



- 2. The URL of my web service deployed to CodeSpace is <a href="https://didactic-space-memory-657q67946j4crp9q-8080.app.github.dev">https://didactic-space-memory-657q67946j4crp9q-8080.app.github.dev</a>
  - a. In my web app project:
    - Model: CardServlet.java

- View: index.jsp
- Controller: DashboardServlet.java
- b. CardServlet.java receives the HTTP GET request with no argument and with argument "deck\_id".
- c. CardServlet.java makes HTTP requests to https://deckofcardsapi.com/api/deck/new/shuffle/?deck\_count=1 to create a new deck of card, to https://deckofcardsapi.com/api/deck/k8g9augvy69d/draw/?count=2 to draw two cards, and to https://deckofcardsapi.com/api/deck/iw30vc44rc7o/shuffle/ to shuffle cards
- d. The responses:
  - Create a new deck

```
{
    "success": true,
    "deck_id": "10oee9fphy40",
    "remaining": 52,
    "shuffled": true
}
```

Draw 2 cards

```
"code": "AC",
    "image":
"https://deckofcardsapi.com/static/img/AC.png",
    "images": {
        "svg":
"https://deckofcardsapi.com/static/img/AC.svg",
        "png":
"https://deckofcardsapi.com/static/img/AC.png"
      },
      "value": "ACE",
      "suit": "CLUBS"
    }
],
"remaining": 48
}
```

Shuffle the deck

```
{
  "success": true,
  "deck_id": "10oee9fphy40",
  "remaining": 52,
  "shuffled": true
}
```

- 3. Handle error conditions
- 4. Log useful information including User Agent, UUID, Timestamp, Method, IP Address, and Response Details
- Connection String: mongodb+srv://hungyic:s17krRBnBmShobWE@cluster0.czpxrau.mongodb.net/?re tryWrites=true&w=majority&appName=Cluster0
- 6. Operations Analytics include average card value, value distribution, and suit distribution

