CS350 Milestone 2 - Code

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Containerizing

- Team was having issues writing documentation that would apply to both Windows and Linux
- I containerized our Django application to streamline the process
- Will separate application from database, easy deployment, less commands to build and run.
 - Python virtual environment: 5 cmds to build and run
 - Docker: 2 cmds



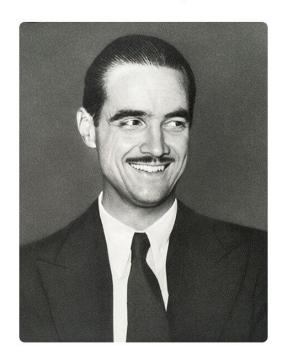
```
FROM python:3.9
ENV PYTHONDONTWRITEBYTECODE 1
ENV PYTHONUNBUFFERED 1
# Set the working directory in the container
WORKDIR /app
COPY requirements.txt /app/
# Install project dependencies
RUN pip install -r requirements.txt
COPY . /app/
EXPOSE 8000
# Start the Diango application
```

The Iconic Squad

Meet This Guy!

Prototyping

- Half of group is in BACS350, where we created profile views in Django with data.
- Not fluent enough in frontend to implement adding and linking profiles, however. BACS350 project is a good milestone at this phase.



The stats!:

Name: Howard Hughes

Strengths: Absolutely decimating a steak, staying in a movie theatre for 4 months

Weaknesses: OCD, Planes

Get This Guy @: /static/images/3.jpg

Prototyping

- I decided to begin to implement the Python classes that will be used in our application, focusing on creating a User and Friends List class.
- Users are given unique hash to track account in database,
 Friends List object features sending and replying to friend requests.
- Basic testing script to see if methods set and return variables properly

```
return self.friends
def send_friend_request(self, userID):
    if userID not in self.friends:
def recieve_accept(self, userID):
    self.friends.append(userID)
def recieve_friend_request(self, userID):
    ### Prompt user
    yes = True
    if yes:
        self.friends.append(userID)
        ### Send rejection
def remove friend(self, userID):
    if userID in self.friends:
                                              class User:
        self.friends.remove(userID)
                                                  def __init__(self, username: str, password: str, email: st
                                                      self.username = username
                                                      self.password = password
                                                      self.email = email
                                                      # ID will be generated by hashing the email, password,
                                                      self.epoch_registration = int(time.time())
                                                      self.id = self.make hash()
                                                      # Attributes to be set later
                                                      self.firstname = None
                                                      self.lastname = None
                                                      self.title = None
                                                      self.pronouns = None
                                                      self.description = None
                                                      self.jobs = [] # List of Job Objects
                                                      self.friends = [] # New Friendslist object
                                                  '''Hashes a unique id for the user'''
```

Markdown Updates

- Updated Code directory in Milestone-2
- Filled out markdown forms alongside adding User.py and Testing.py

What I did for Milestone 2

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Containerizing our application

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Our team members were using a combination of either Windows or Linux machines. This became an issue during documentation as setting up the same environment on different OS required a lot of time to create directions. Using a containerization platform will allow us all to have the same development environment regardless of OS.

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To do this, I decided to containerize our application using Docker. The setup can be seen in the Dockerfile in our project directiory, and the commands to run the server are in the project readme. The benefit of this is that the team no longer need to configure a virtual environment for local development, and we can divide the application and database easily to help provide redundancy.

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Prototype

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Several of our team members are also in the BACS350 class, which recently completed a project to create profile views using templates and userdata. Creating and linking users together using a frontend is our of our scope at the moment

Thanks for watching!