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In [1]: import streamlit as st
import easyocr
import cv2
import mysql.connector
```

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In [2]: def main():
st.title("BizCardX: Extracting Business Card Data with OCR")
uploaded_image = st.file_uploader("Upload a business card image", type=["jpg", "jpeg", "png"])
if uploaded_image is not None:
    image = cv2.imdecode(np.fromstring(uploaded_image.read(), np.uint8), 1)
    st.image(image, caption="Uploaded Image", use_column_width=True)
    if st.button("Extract Information"):
        extracted_data = extract_data(image)
        display_data(extracted_data)
        save_to_database(uploaded_image, extracted_data)
```

```
In [3]: def extract_data(image):

# Use easyOCR to extract text from the image
reader = easyocr.Reader(['en'])
results = reader.readtext(image)

# Process the OCR results to extract relevant information
# You may need to use regex or other techniques to extract specific data like email, phone number, etc.

extracted_data = {
    "Company": "",
    "Card Holder Name": "",
    "Designation": "",
    "Mobile Number": "",
    "Email": "",
    "Website": "",
    "Area": "",
    "City": "",
    "State": "",
    "Pin Code": ""
}

# Fill the extracted_data dictionary with relevant information from OCR results

return extracted_data
```

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In [4]: import pymysql

host = 'localhost'
database = 'bizcard'
user = 'root'
password = 'Gana1998@'

# Establish the connection to the MySQL database
conn = pymysql.connect(host=host, database=database, user=user, password=password)

# Check if the connection
if conn:
    print("Connected to the MySQL database!")
else:
    print("Failed to connect to the MySQL database.")
```

Connected to the MySQL database!

```
In [5]: # Import the required libraries
import streamlit as st
import streamlit.components.v1 as components
import hashlib

# Define the custom SessionState class for managing session state
class SessionState:
    def __init__(self, **kwargs):
        self.__dict__.update(kwargs)

# Function to check if the entered password is correct
def check_password(password):
    # Hash the password to compare it with the stored hash
    hashed_password = hashlib.sha256(password.encode()).hexdigest()
    stored_hashed_password = "your_stored_hashed_password"
    return hashed_password == stored_hashed_password

# Streamlit application - Add user authentication
def main():
    # Initialize the session state
    session_state = SessionState(logged_in=False)

    st.title("BizCardX: Extracting Business Card Data with OCR")

    # Display the login form
    if not session_state.logged_in:
        st.header("Login")
        password = st.text_input("Password", type="password")
        if st.button("Login"):
            if check_password(password):
                session_state.logged_in = True
                st.success("Login successful! You can now use the application.")
            else:
                st.error("Invalid password. Please try again.")

    if session_state.logged_in:
        uploaded_image = st.file_uploader("Upload a business card image", type=["jpg", "jpeg", "png"])
```