MANUAL CODE REVIEW ERRORS FOUND IN THE WEB APP CODE:

Face-Counter

- No input check for `img` in `findFaceMesh`.
- `cv2.VideoCapture(0)` does not have error handling.
- It does not check whether a frame has been captured correctly as indicated by the parameter `success`.
- Access `multi_face_landmarks` without checking if `self.results` is `None`.
- It does not check whether the list `faces` may be empty before it tries to get the first element, `faces[0]`.
- Parameters of `cv2.putText` hardcoded without providing a way to configure it from outside.
- The main loop lacks cleanup or proper exception handling.
- Lack of logging or error reporting mechanism.
- It doesn't take thread-safety into consideration regarding shared resources, such as `cap`.
- There are magic numbers used, such as thickness and circle_radius, without explanation.

Virtual Mouse

- No validation of the input `frame` after reading from `cap`.
- No exception handling while calling the function `pyautogui.press()`.
- No checking for `None` value of `results` before working with `multi_hand_landmarks`.
- Misusing `pyautogui` for control by changing volume without the confirmation of users.
- The parameters are hardcoded for initializing `Hands` without explanation.
- No cleanup or exception handling in the main loop.
- The code is repeated since the entire script is duplicated.
- 2 No acton logging is done. Examples include volume changes.
- 2 No gesture threshold or sensitivity setting.
 - `img` input validation not done in the `findHands` method.
 - Error handling of `cap.read()`.
 - Check if `self.results` is not None before trying to access `multi_hand_landmarks`.
 - Use `autopy.mouse.move` without boundary checks, which might lead to misuses.
 - Exception handling when getting screen dimensions by `autopy.screen.size()`.

