**Experiment Report - 67 - test4\_demoCode**

1. **Summary Table of Errors Found**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Error ID | Line Number | Error Type | Self-Detected? | Peer 1 Found? | Peer 2 Found? |
| E01 | line 12 | Syntax | √ | √ | √ |
| E02 | line 45 | Semantic | √ | × | × |
| E03 | line 57 | Semantic | √ | × | × |

Additional Errors Found by Self: 0

Self-Review Detection Rate: 100%

Peer 1 Detection Rate: 33%

Peer 2 Detection Rate: 33%

1. **Source Code**
2. #include <string>
3. #include <fstream>
4. int main() {
5. int id = 101;
6. std::string name = "Smith";
7. std::string department = "Patrol";
8. CameraController camera(timeManager, gpsModule);
9. camera.setPoliceInfo(name, department);
10. // Create configuration settings for 60fps, 1080p resolution, H264 encoding
11. VideoConfig config;
12. config.setFrameRate(60);
13. config.setResolution("1920x1080");
14. config.setEncodingStandard("H264");
15. config.setBitrate(300);
16. std::cout << "Initiating video recording..." << std::endl;
17. cameraController.startRecording();
18. std::this\_thread::sleep\_for(std::chrono::seconds(6));
19. cameraController.stopRecording();
20. std::cout << "Video recording process completed." << std::endl;
21. camera.encryptAndStoreVideo();
23. return 0;
24. }
25. class CameraController {
26. public:
27. CameraController();
28. void startRecording();
29. void stopRecording();
30. void encryptAndStoreVideo(const std::string& filePath, std::string& videoData);
31. private:
32. TimeManager timeManager;
33. GPSModule gpsModule;
34. VideoRecorder videoRecorder;
35. VideoConfig videoConfig;
36. EncryptionModule encryptionModule;
37. StorageManager storageManager;
38. bool isRecording;
40. void configureVideoSettings();
41. };