**Eva analysis:**

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| **Task** | **Planned Effort** | **Actual Effort** |
| 1.Requirements Analysis | 10 | 10.5 |
| 2.System Architecture Design | 8 | 10 |
| 3. Authentication & Security Setup | 11 | 11.5 |
| 4. Login Module Development | 8 | 8 |
| 5. User Dashboard Development | 14 | 15 |
| 6. Search Hero Section | 7.5 | 8 |
| 7. Search Functionality Integration | 8 | 7.5 |
| 8. Searching Results Module | 16 | 15 |
| 9. Search History Navigation | 9 | 10 |
| 10. Search History Listing | 13 | 14 |
| 11. Footage Review Page | 17 | 17.5 |
| 12. Admin Dashboard – Navbar | 7 | 8 |
| 13. Admin Dashboard – User Management | 11.5 |  |
| 14. Update User | 12 |  |
| 15. Create New User | 6 |  |
| 16. User Search History | 18 |  |
| 17. UI/UX Testing | 13 |  |
| 18. Integration & System Testing | 11 |  |
| 19. Bug fixing | 8 |  |
| 20. Deployment & Maintenance | 12 |  |

Here, Total task is 20. The schedule task is 15 and the performed task is 12.  
Now,

Budgeted cost of work scheduled =BCWS=158 person-day

Budgeted cost of work performed =BCWP=128.5 person-day

Actual cost of work performed=ACWP= 135 person-day

Budget at completion=BAC = 220 PERSON-DAY

Schedule performance index=SPI = BCWP/ BCWS = 128.5/158= 0.81

Schedule variance=SV = BCWP - BCWS = 128.5-158= -29.5 person-day

Cost performance index=CPI = BCWP/ ACWP = 128.5/135=0.95

Cost variance=CV = BCWP – ACWP = 128.5-135= -6.5 person-day

% schedule for completion = BCWS/ BAC = 158/ 220 = 0.72=72%

[% of work scheduled to be done at this time]

% complete = BCWP/ BAC = 128.5/ 220 = 0.58=58%

[% of work completed at this time]

**Explanation of EVA Exercise :**

The Earned Value Analysis (EVA) provides insight into how our project is progressing in terms of both schedule and cost. The total planned effort is 220 person-days (BAC). Up to this point, 158 person-days were scheduled (BCWS), and 128.5 person-days of work have been completed (BCWP), indicating the project is behind schedule with a Schedule Performance Index (SPI) of 0.81. The Schedule Variance (SV) is -29.5 person-days means the project is 29.5 person days behind. From a cost perspective, the actual work completed consumed 135 person-days (ACWP), which results in a Cost Performance Index (CPI) of 0.95, and a Cost Variance (CV) of -6.5 person-days. A CPI above 1 means the project is over budget. As of now, the project was expected to be 72% complete, but only 58% of the work has been finished. This indicates that while the team is managing resources efficiently, additional focus is needed to catch up with the planned schedule.