**Table C16 Time Recording Log**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Student | | Sanjeev Ram Prasad | | | | Date | | 2004/2023 |
| Instructor | | Dr.K.S.Gayathri | | | | Program # | | PSP0.1 |
|  | |  | | | |  | |  |
| **Date** | **Start** | **Stop** | **Interruption**  **Time** | **Delta**  **Time** | **Phase** | | **Comments** | |
| 20/04/23 | 7.35  pm | 9.40  pm | 35 minutes | 90 minutes | Planning | | Logic-Thinking to deal with the problem statement was formulated and Research | |
| 22/04/23 | 7.15 pm | 9.30 pm | 35 minutes | 120 minutes | Design | | Development of Test-Code for a small manually created python file | |
| 24/04/23 | 6.45 pm | 10.00 pm | 70 minutes | 125 minutes | Coding Phase 1  (LOC-Package and number count) | | The final code was developed to determine the lines of code (excluding comments),number of classes(including number of functions),number of functions and number of modules within the files of the input | |
| 26/04/23 | 11.00 am | 2.30 pm | 45 minutes | 175 minutes | Coding Phase 2  -Line count | | Executing the code for line count functionalities- lines of functions,classes etc. | |
| 27/04/23 | 7.30 pm | 9.00 pm | 10 minutes | 80 minutes | Coding Phase 3 | | The finishing up of the final piece of code. | |
| 27/04/23 | 9.00  pm | 11.30 pm | 15 minutes | 135 minutes | Testing and Debugging | | Ensuring smooth function of the final code by removing bugs and errors | |
| 29/03/23 | 3.15 pm | 4.45 pm | 15 minutes | 75 minutes | Testing cum Debugging | | Ensuring smooth function of the final code by removing bugs and errors | |
| 30/03/23 | 10.30 am | 12.00 pm | 35 minutes | 55 minutes | Postmortem | | To Ensure the final-proper functioning of the code along with a comprehensible program code. | |

**Table C18 Defect Recording Log**

**Defect Types**

**10 Documentation 60 Checking**

**20 Syntax 70 Data**

**30 Build, Package 80 Function**

**40 Assignment 90 System**

**50 Interface 100 Environment**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Student | | | | Sanjeev Ram Prasad | | | | | | | | Date | | 30/04/2023 | |
| Instructor | | | | Dr.K.S.Gayathri | | | | | | | | Program # | | PSP0.1 | |
| Date |  | Number | | |  | Type |  | Inject |  | Remove |  | | Fix Time |  | Fix Defect |
| 22/04/23 |  | 1 | | |  | 30 |  | Design |  | Code |  | | 30 min |  |  |
| Description: | | | Invalid path name usd in os.walk() | | | | | | | | | | | | |
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| Date |  | Number | | |  | Type |  | Inject |  | Remove |  | | Fix Time |  | Fix Defect |
| 24/04/23 |  | 2 | | |  | 20 |  | Coding |  | Coding |  | | 5 min |  |  |
| Description: | | | Not storing the contents of split( ) into a variable – hindered access. | | | | | | | | | | | | |
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| Date | | | | | | | | | | | | | | | |
| Date |  | Number | | |  | Type |  | Inject |  | Remove |  | | Fix Time |  | Fix Defect |
| 24/04/23 |  | 3 | | |  | 90 |  | Code |  | Code |  | | 12 min |  |  |
| Description: | | | Access denial to a file | | | | | | | | | | | | |
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| Date |  | Number | | |  | Type |  | Inject |  | Remove |  | | Fix Time |  | Fix Defect |
| 24/04/23 |  | 4 | | |  | 60 |  | Code |  | Code |  | | 15 min |  |  |
| Description: | | | Wrong calculation of line count by the program | | | | | | | | | | | | |
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| Date |  | Number | | |  | Type |  | Inject |  | Remove |  | | Fix Time |  | Fix Defect |
| 24/04/23 |  | 5 | | |  | 40 |  | Code |  | Debug |  | | 20 min |  |  |
| Description: | | | Initializing default with to justify line as 1. | | | | | | | | | | | | |
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| Date |  | Number | | |  | Type |  | Inject |  | Remove |  | | Fix Time |  | Fix Defect |
| 24/04/23 |  | 6 | | |  | 90 |  | Code |  | Debug |  | | 20 min |  | 1 |
| Description: | | | Maximum recursion depth error | | | | | | | | | | | | |
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| Date |  | Number | | |  | Type |  | Inject |  | Remove |  | | Fix Time |  | Fix Defect |
| 27/04/23 |  | 7 | | |  | 70 |  | Code |  | Debug |  | | 7 min |  |  |
| Description: | | | Invalid use of function strip methods on an integer datatype | | | | | | | | | | | | |
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| Date |  | Number | | |  | Type |  | Inject |  | Remove |  | | Fix Time |  | Fix Defect |
| 29/03/23 |  | 8 | | |  | 10 |  | Debug |  | Debug |  | | 4 min |  |  |
| Description: | | | Invalid root directory name , ‘\n’ character encoding trouble | | | | | | | | | | | | |
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| Date |  | Number | | |  | Type |  | Inject |  | Remove |  | | Fix Time |  | Fix Defect |
| 16/04/23 |  | 9 | | |  | 10 |  | Testing |  | Testing |  | | 7 min |  |  |
| Description: | | | Character encoding error. | | | | | | | | | | | | |
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**Table C25 PSP0.1 Project Plan Summary**

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| --- | --- | --- | --- |
| Student | Sanjeev Ram Prasad | Date | 25.04.2023 |
| Program | PSP0.1 | Program # |  |
| Instructor | Dr.K.S Gayathri | Language | Python3 |

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| ***Program Size (LOC)*** | ***Plan*** |  | ***Actual*** |  | ***To Date*** |
| ***Base(B)*** |  |  | ***175*** |  | ***175*** |
|  |  |  | ***(Measured)*** |  |  |
| ***Deleted (D)*** |  |  | ***121*** |  | ***121*** |
|  |  |  | ***(Counted)*** |  |  |
| ***Modified (M)*** |  |  | ***129*** |  | ***129*** |
|  |  |  | ***(Counted)*** |  |  |
| ***Added (A)*** |  |  | ***20*** |  | ***20*** |
|  |  |  | ***(T-B+D-R)*** |  |  |
| ***Reused (R)*** |  |  | ***38*** |  | ***38*** |
|  |  |  | ***(Counted)*** |  |  |
| ***Total New & Changed (N)*** |  |  | ***91*** |  | ***91*** |
|  |  |  | ***(A+M)*** |  |  |
| ***Total LOC (T)*** |  |  | ***227*** |  | ***227*** |
|  |  |  | ***(Measured)*** |  |  |
| ***Total New Reused*** |  |  | ***20*** |  | ***20*** |

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| **Time in Phase (min.)** | ***Plan*** |  | **Actual** | | |  | **To Date** | | |  | **To Date %** |
| Planning | 1.Access the root directory for the zip file(Use ZipFile module |  | 97 | | |  | 152 | | |  | 14.24% |
| Design | 2.Use of os.walk() and zipfile method to access ‘xml.zip’ |  | 80 | | |  | 155 | | |  | 14.52% |
| Code | 3.Function definitions for various operations |  | 380 | | |  | 525 | | |  | 49.2% |
| Compile | 4.Execute a driver code. |  |  | | |  |  | | |  |  |
| Test | 5.Check for theDesired output display using function calls |  | 150 | | |  | 260 | | |  | 24.3% |
| Postmortem |  |  | 45 | | |  | 75 | | |  | 7.02% |
| Total |  |  | 752 | | |  | 1067 | | |  | 100% |
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| **Defects Injected** |  |  | **Actual** |  | **To Date** |  | **To Date %** |
| Planning |  |  | -------- |  | ------ |  | ---------- |
| Design |  |  | 1 |  | 4 |  | 21.05% |
| Code |  |  | 6 |  | 10 |  | 52.63% |
| Compile |  |  | --------- |  | ------ |  | --------- |
| Test |  |  | 2 |  | 5 |  | 26.31% |
| Total Development |  |  | 9 |  | 19 |  | 100% |
|  |  |  |  |  |  |  |  |
| **Defects Removed** |  |  | **Actual** |  | **To Date** |  | **To Date %** |
| Planning |  |  | -------- |  | ------ |  | ---------- |
| Design |  |  | 1 |  | 4 |  | 21.05% |
| Code |  |  | 6 |  | 10 |  | 52.63% |
| Compile |  |  | --------- |  | ------ |  | --------- |
| Test |  |  | 2 |  | 5 |  | 26.31% |
| Total Development |  |  | 9 |  | 19 |  | 100% |

**Table C27 Process Improvement Proposal (PIP)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Student | Sanjeev Ram Prasad | | Date | 25.03.23 |
| Instructor | Dr.K.S Gayathri | | Program # |  |
| Process | PSP0.1 | Elements | Coding | |

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| --- | --- | --- |
| **PIP Number** | | |
|  |  | **Problem Description:** | |
| 1 |  | Calculating for multiline docstrings | |
| 2 |  | Dealing with the run-time factor in code implementation | |
| 3 |  | Packages and module functions provided by Python | |
| 4 |  | Encountering permission errors while accessing files | |
| 5 |  | Syntax mistakes | |
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| **PROPOSAL** | | |
| **PIP #** |  | **Proposal Description** | |
| 1 |  | Research and study on inbuilt packages of Python | |
| 2. |  | Taking care of time complexity while developing of code | |
| 3. |  | Revision of basic looping and control flow concepts. | |
| 4. |  | Implementing exception handling. | |
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| **Notes and Comments:** | | |
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