| Sno | Variable | Actual Rscope | Actual Wscope |
|---|---|---|---|
| 1 | Student. LoggedIn. SetRoom. room | [Student. LoggedIn. SetRoom] | [Student. LoggedIn. SetRoom] |
| 2 | Student. LoggedOut. user | [tlogin] | [Student. LoggedOut] |
| 3 | Student. LoggedIn. ViewDetails. room | [] | [Student. LoggedIn. ViewDetails] |
| 4 | Student. LoggedIn. loggedinUser | [Student. LoggedIn. SetRoom, Student. LoggedIn. ViewDetails] | [tlogin] |
| 5 | Student. LoggedIn. ViewDetails. student | [] | [Student. LoggedIn. ViewDetails] |
| 6 | Student. rooms | [Student. LoggedIn. SetRoom, Student. LoggedIn. ViewDetails] | [Student. LoggedIn. SetRoom] |
| 7 | Student. students | [tlogin] | [] |
| 8 | Student. LoggedOut. password | [tlogin] | [Student. LoggedOut] |

Table 1: Actual R and W scope for Curfew1.txt

| Sno | Variable | Actual Rscope | Actual Wscope |
|---|---|---|---|
| 1 | Curfew. registration. userName | [Curfew. registration, register-success, register-failure] | [Curfew. registration] |
| 2 | Curfew. LoggedIn. AdminDashboard. SetRoom. room | [Curfew. LoggedIn. AdminDashboard. SetRoom] | [Curfew. LoggedIn. AdminDashboard. SetRoom] |
| 3 | Curfew. LoggedIn. student-dashboard. view-my-requests. myrequests | [] | [Curfew. LoggedIn. student-dashboard. view-my-requests] |
| 4 | Curfew. LoggedIn. student-dashboard. request-curfew. request-LateOut. outTime | [] | [Curfew. LoggedIn. student-dashboard. request-curfew. request-LateOut] |
| 5 | Curfew. registration. usertype | [Curfew. registration] | [Curfew. registration] |
| 6 | Curfew. LoggedIn. AdminDashboard. view-requests. pending-requests. prsel | [pr-approve-pr, pr-proof-pr, pr-reject-pr] | [pr-select-pr] |
| 7 | Curfew. LoggedIn. student-dashboard. request-curfew. request-LateOut. curfewLateOut-flag | [Curfew. LoggedIn. student-dashboard. request-curfew. request-LateOut] | [] |
| 8 | Curfew. LoggedIn. AdminDashboard. view-requests. ticketid | [] | [] |

| 9 | Curfew. LoggedIn. AdminDashboard. view-requests. approved-requests. cr | [] | [Curfew. LoggedIn. AdminDashboard. view-requests. approved-requests] |
|---|---|---|---|
| 10 | Curfew. nulluser | [register-success, tlogout, register-failure] | [] |
| 11 | Curfew. LoggedIn. student-dashboard. request-curfew. type-of-request | [Curfew. LoggedIn. student-dashboard. request-curfew] | [Curfew. LoggedIn. student-dashboard. request-curfew, Curfew. LoggedIn. student-dashboard. request-curfew. request-LateIn, Curfew. LoggedIn. student-dashboard. request-curfew. request-LateOut, Curfew. LoggedIn. student-dashboard. request-curfew. request-vacation] |
| 12 | Curfew. LoggedOut. password | [tlogin-student, tlogin-admin] | [Curfew. LoggedOut, tlogout] |
| 13 | Curfew. rooms | [Curfew. LoggedIn. AdminDashboard. ViewDetails, Curfew. LoggedIn. AdminDashboard. SetRoom] | [Curfew. LoggedIn. AdminDashboard. SetRoom] |
| 14 | Curfew. nullRequest | [view-my-requests-upload-curfew-proof] | [] |
| 15 | Curfew. LoggedIn. student-dashboard. request-curfew. student | [request-curfew-add-student] | [Curfew. LoggedIn. student-dashboard. request-curfew] |
| 16 | Curfew. LoggedIn. loggedinUser | [Curfew. LoggedIn. AdminDashboard. ViewDetails, Curfew. LoggedIn. AdminDashboard. SetRoom, Curfew. LoggedIn. student-dashboard. view-my-requests, Curfew. LoggedIn. student-dashboard. request-curfew, tlogin-student, tlogin-admin] | [tlogin-student, tlogin-admin] |
| 17 | Curfew. LoggedIn. loggedinUsertype | [tsetroom, tviewdetails] | [tlogin-student, tlogin-admin] |
| 18 | Curfew. LoggedIn. AdminDashboard. view-requests. rejected-requests. rr | [] | [Curfew. LoggedIn. AdminDashboard. view-requests. rejected-requests] |
| 19 | Curfew. LoggedIn. AdminDashboard. view-requests. pending-requests. pending-flag | [Curfew. LoggedIn. AdminDashboard. view-requests. pending-requests, pr-approve-pr, pr-reject-pr] | [Curfew. LoggedIn. AdminDashboard. view-requests. pending-requests] |
| 20 | Curfew. registration. user | [register-success] | [Curfew. registration] |
| 21 | Curfew. LoggedIn. AdminDashboard. ViewDetails. room | [] | [Curfew. LoggedIn. AdminDashboard. ViewDetails] |

| 22 | Curfew. LoggedIn. student-dashboard. request-curfew. reason | [Curfew. LoggedIn. student-dashboard. request-curfew] | [Curfew. LoggedIn. student-dashboard. request-curfew] |
|---|---|---|---|
| 23 | Curfew. requests | [Curfew. LoggedIn. AdminDashboard. view-requests. pending-requests, Curfew. LoggedIn. student-dashboard. view-my-requests, Curfew. LoggedIn. student-dashboard. request-curfew, Curfew. LoggedIn. AdminDashboard. view-requests. closed-requests, Curfew. LoggedIn. AdminDashboard. view-requests. approved-requests, Curfew. LoggedIn. AdminDashboard. view-requests. rejected-requests, pr-approve-pr, vacation-init-success, pr-reject-pr, LateIn-init-success, curfew-init-success] | [Curfew. LoggedIn. student-dashboard. request-curfew, vacation-init-success, LateIn-init-success, curfew-init-success] |
| 24 | Curfew. LoggedIn. AdminDashboard. view-requests. closed-requests. closed-flag | [Curfew. LoggedIn. AdminDashboard. view-requests. closed-requests] | [Curfew. LoggedIn. AdminDashboard. view-requests. closed-requests] |
| 25 | Curfew. LoggedIn. student-dashboard. request-curfew. teamlist | [request-curfew-add-student] | [Curfew. LoggedIn. student-dashboard. request-curfew, request-curfew-add-student] |
| 26 | Curfew. LoggedIn. AdminDashboard. view-requests. pending-requests. pr | [pr-select-pr] | [Curfew. LoggedIn. AdminDashboard. view-requests. pending-requests, pr-approve-pr, pr-reject-pr] |
| 27 | Curfew. LoggedOut. user | [tlogin-student, tlogin-admin] | [Curfew. LoggedOut, tlogout] |
| 28 | Curfew. nulllist | [pr-approve-pr, pr-proof-pr, pr-reject-pr] | [] |
| 29 | Curfew. LoggedIn. student-dashboard. request-curfew. request-vacation. inDate | [] | [Curfew. LoggedIn. student-dashboard. request-curfew. request-vacation] |
| 30 | Curfew. students | [Curfew. LoggedIn. AdminDashboard. ViewDetails, Curfew. LoggedIn. AdminDashboard. SetRoom, Curfew. LoggedIn. student-dashboard. view-my-requests, Curfew. LoggedOut] | [] |
| 31 | Curfew. LoggedIn. student-dashboard. request-curfew. request-vacation. vacation-flag | [Curfew. LoggedIn. student-dashboard. request-curfew. request-vacation] | [] |
| 32 | Curfew. userType | [] | [] |

| 33 | Curfew. LoggedIn. AdminDashboard. ViewDetails. student | [] | [Curfew. LoggedIn. AdminDashboard. ViewDetails] |
|---|---|---|---|
| 34 | Curfew. LoggedIn. student-dashboard. request-curfew. request-vacation. outDate | [] | [Curfew. LoggedIn. student-dashboard. request-curfew. request-vacation] |
| 35 | Curfew. LoggedOut. username | [Curfew. LoggedOut] | [Curfew. LoggedOut] |
| 36 | Curfew. LoggedIn. student-dashboard. upload-curfew-proof. sReq | [] | [view-my-requests-upload-curfew-proof] |
| 37 | Curfew. LoggedIn. student-dashboard. request-curfew. request-vacation. outTime | [] | [Curfew. LoggedIn. student-dashboard. request-curfew. request-vacation] |
| 38 | Curfew. LoggedIn. AdminDashboard. view-requests. rejected-requests. rejected-flag | [Curfew. LoggedIn. AdminDashboard. view-requests. rejected-requests] | [Curfew. LoggedIn. AdminDashboard. view-requests. rejected-requests] |
| 39 | Curfew. LoggedIn. student-dashboard. view-my-requests. selectedRequest | [view-my-requests-upload-curfew-proof] | [Curfew. LoggedIn. student-dashboard. view-my-requests] |
| 40 | Curfew. LoggedIn. AdminDashboard. view-requests. closed-requests. cr | [] | [Curfew. LoggedIn. AdminDashboard. view-requests. closed-requests] |
| 41 | Curfew. registeredUsers | [register-success, tlogin-student, tlogin-admin, register-failure] | [register-success] |
| 42 | Curfew. registration. password | [Curfew. registration] | [Curfew. registration] |
| 43 | Curfew. LoggedIn. student-dashboard. request-curfew. request-LateIn. inTime | [] | [Curfew. LoggedIn. student-dashboard. request-curfew. request-LateIn] |
| 44 | Curfew. LoggedIn. AdminDashboard. view-requests. approved-requests. approved-flag | [Curfew. LoggedIn. AdminDashboard. view-requests. approved-requests] | [Curfew. LoggedIn. AdminDashboard. view-requests. approved-requests] |
| 45 | Curfew. LoggedIn. student-dashboard. upload-curfew-proof. document | [] | [Curfew. LoggedIn. student-dashboard. upload-curfew-proof] |
| 46 | Curfew. LoggedIn. student-dashboard. request-curfew. request | [Curfew. LoggedIn. student-dashboard. request-curfew, vacation-init-success, LateIn-init-success, curfew-init-success] | [Curfew. LoggedIn. student-dashboard. request-curfew] |
| 47 | Curfew. LoggedIn. student-dashboard. request-curfew. request-vacation. inTime | [] | [Curfew. LoggedIn. student-dashboard. request-curfew. request-vacation] |

| 48 | Curfew. LoggedIn. student-dashboard. request-curfew. request-LateIn. curfewLateIn-flag | [Curfew. LoggedIn. student-dashboard. request-curfew. request-LateIn] | [] |

Table 2: Actual R and W scope for Curfewfull.txt

| Sno | Variable | Actual Rscope | Actual Wscope |
|---|---|---|---|
| 1 | hms. admintype | [LoggedOut-LoggedIn-AdminModule] | [hms] |
| 2 | hms. LoggedIn. StudentModule. ComplaintModule. MakeComplaints. compliantPriority | [] | [hms. LoggedIn. StudentModule. ComplaintModule. MakeComplaints] |
| 3 | hms. LoggedIn. CentralAdminModule. CreateEscalationPolicy. deadline1 | [hms. LoggedIn. CentralAdminModule. CreateEscalationPolicy] | [hms. LoggedIn. CentralAdminModule. CreateEscalationPolicy] |
| 4 | hms. LoggedIn. StudentModule. ScheduleHouseKeeping. EnterVacation. inTime | [] | [] |
| 5 | hms. LoggedIn. AdminModule. HostelManagement. RoomAllotment. roomno | [] | [hms. LoggedIn. AdminModule. HostelManagement. RoomAllotment] |
| 6 | hms. LoggedIn. AdminModule. HostelManagement. RoomAddition. no | [RoomAddition-RoomAddition] | [hms. LoggedIn. AdminModule. HostelManagement. RoomAddition] |
| 7 | hms. centraladmintype | [LoggedOut-LoggedIn-CentralAdminModule] | [hms] |
| 8 | hms. LoggedIn. AdminModule. HostelManagement. RoomAllotment. student | [hms. LoggedIn. AdminModule. HostelManagement. RoomAllotment, RoomAllotment-RoomAllotment] | [StudentSelection-RoomSelection] |
| 9 | hms. LoggedIn. AdminModule. HostelManagement. RoomAllotment. StudentSelection. selectedStudent | [StudentSelection-RoomSelection] | [hms. LoggedIn. AdminModule. HostelManagement. RoomAllotment. StudentSelection] |
| 10 | hms. departments | [DepartmentAddition-Done] | [DepartmentAddition-Done] |
| 11 | hms. LoggedIn. AdminModule. UserManagement. UserAddition. StudentAddition. rno | [hms. LoggedIn. AdminModule. UserManagement. UserAddition. StudentAddition] | [hms. LoggedIn. AdminModule. UserManagement. UserAddition. StudentAddition] |

| 12 | hms. LoggedIn. AdminModule. StudentManagement. SendGroupMessages. message | [SendGroupMessagesDone] | [hms. LoggedIn. AdminModule. StudentManagement. SendGroupMessages] |
|---|---|---|---|
| 13 | hms. LoggedIn. CentralAdminModule. CreateEscalationPolicy. deadline3 | [hms. LoggedIn. CentralAdminModule. CreateEscalationPolicy] | [hms. LoggedIn. CentralAdminModule. CreateEscalationPolicy] |
| 14 | hms. LoggedIn. AdminModule. StudentManagement. StudentSearch. SearchByName. name | [hms. LoggedIn. AdminModule. StudentManagement. StudentSearch. SearchByName] | [hms. LoggedIn. AdminModule. StudentManagement. StudentSearch. SearchByName] |
| 15 | hms. LoggedIn. AdminModule. HostelManagement. RoomAllotment. wing | [hms. LoggedIn. AdminModule. HostelManagement. RoomAllotment, RoomAllotment-RoomAllotment] | [RoomSelection-StudentSelection] |
| 16 | hms. LoggedIn. CentralAdminModule. CreateEscalationPolicy. deadline2 | [hms. LoggedIn. CentralAdminModule. CreateEscalationPolicy] | [hms. LoggedIn. CentralAdminModule. CreateEscalationPolicy] |
| 17 | hms. LoggedIn. AdminModule. UserManagement. UserAddition. emailID | [hms. LoggedIn. AdminModule. UserManagement. UserAddition] | [hms. LoggedIn. AdminModule. UserManagement. UserAddition] |
| 18 | hms. LoggedIn. AdminModule. UserManagement. UserAddition. usertype | [hms. LoggedIn. AdminModule. UserManagement. UserAddition] | [hms. LoggedIn. AdminModule. UserManagement. UserAddition] |
| 19 | hms. LoggedIn. CentralAdminModule. ViewEscalatedComplaints. SearchComplaints. key | [hms. LoggedIn. CentralAdminModule. ViewEscalatedComplaints. SearchComplaints] | [hms. LoggedIn. CentralAdminModule. ViewEscalatedComplaints. SearchComplaints] |
| 20 | hms. LoggedIn. AdminModule. HostelManagement. RoomAllotment. room | [hms. LoggedIn. AdminModule. HostelManagement. RoomAllotment, RoomAllotment-RoomAllotment] | [RoomSelection-StudentSelection] |
| 21 | hms. LoggedIn. AdminModule. StudentManagement. SendGroupMessages. studList | [SendGroupMessagesDone] | [StudentSearch-SendGroupMessages] |
| 22 | hms. LoggedIn. AdminModule. UserManagement. ViewUsers. selectedUser | [] | [hms. LoggedIn. AdminModule. UserManagement. ViewUsers, EnableUserDone, DisableUserDone] |
| 23 | hms. LoggedIn. AdminModule. HostelManagement. RoomAllotment. rollno | [] | [hms. LoggedIn. AdminModule. HostelManagement. RoomAllotment] |
| 24 | hms. LoggedIn. CentralAdminModule. CreateEscalationPolicy. newpolicy | [CreateEscalationPolicy-Done] | [hms. LoggedIn. CentralAdminModule. CreateEscalationPolicy] |

| 25 | hms. LoggedIn. AdminModule. StudentManagement. FineStudents. reason | [FineStudentsDone] | [hms. LoggedIn. AdminModule. StudentManagement. FineStudents] |
|---|---|---|---|
| 26 | hms. LoggedIn. CentralAdminModule. CreateEscalationPolicy. firstOfficer | [hms. LoggedIn. CentralAdminModule. CreateEscalationPolicy] | [hms. LoggedIn. CentralAdminModule. CreateEscalationPolicy] |
| 27 | hms. LoggedIn. AdminModule. UserManagement. UserAddition. WardenAddition. buildingIncharge | [hms. LoggedIn. AdminModule. UserManagement. UserAddition. WardenAddition] | [hms. LoggedIn. AdminModule. UserManagement. UserAddition. WardenAddition] |
| 28 | hms. LoggedIn. StudentModule. ComplaintModule. MakeComplaints. problemStartDate | [] | [hms. LoggedIn. StudentModule. ComplaintModule. MakeComplaints] |
| 29 | hms. complaints | [hms. LoggedIn. CentralAdminModule. ViewEscalatedComplaints. SearchComplaints, ForwardComplaints-ComplaintView, ResolveComplaints-ComplaintView] | [ForwardComplaints-ComplaintView, ResolveComplaints-ComplaintView] |
| 30 | hms. complaintResolved | [hms. LoggedIn. AdminModule. ComplaintManagement. ResolveComplaints] | [hms] |
| 31 | hms. LoggedIn. CentralAdminModule. ViewEscalatedComplaints. ComplaintDetail. sComplaint | [] | [SearchComplaints-ComplaintsDetail] |
| 32 | hms. LoggedIn. AdminModule. UserManagement. UserAddition. StudentAddition. stud | [StudentAdditionDone] | [hms. LoggedIn. AdminModule. UserManagement. UserAddition. StudentAddition, StudentAdditionDone] |
| 33 | hms. complaintAssigned | [] | [hms] |
| 34 | hms. LoggedIn. AdminModule. StudentManagement. FineStudents. fineID | [FineStudentsDone] | [] |
| 35 | hms. LoggedIn. StudentModule. ComplaintModule. MakeComplaints. complaintDescription | [] | [hms. LoggedIn. StudentModule. ComplaintModule. MakeComplaints] |
| 36 | hms. LoggedIn. AdminModule. HostelManagement. RoomAllotment. RoomSelection. selectedRoom | [RoomSelection-StudentSelection] | [hms. LoggedIn. AdminModule. HostelManagement. RoomAllotment. RoomSelection] |
| 37 | hms. LoggedIn. AdminModule. UserManagement. UserAddition. contactno | [hms. LoggedIn. AdminModule. UserManagement. UserAddition] | [hms. LoggedIn. AdminModule. UserManagement. UserAddition] |

| 38 | hms. LoggedIn. AdminModule. StudentManagement. StudentSearch. selectedStudent | [StudentSearch-FineStudents, StudentSearch-SendGroupMessages] | [Search-SearchByName, Search-SearchByRollNo] |
|---|---|---|---|
| 39 | hms. LoggedIn. WorkerModule. MarkAttendance. punchTime | [MarkAttendance-Done] | [] |
| 40 | hms. LoggedIn. AdminModule. UserManagement. UserAddition. StudentAddition. department | [hms. LoggedIn. AdminModule. UserManagement. UserAddition. StudentAddition] | [hms. LoggedIn. AdminModule. UserManagement. UserAddition. StudentAddition] |
| 41 | hms. LoggedIn. AdminModule. HostelManagement. WingAddition. newwing | [WingAddition-WingAddition] | [hms. LoggedIn. AdminModule. HostelManagement. WingAddition] |
| 42 | hms. complaintLaunched | [] | [hms] |
| 43 | hms. workertype | [LoggedOut-LoggedIn-WorkerModule] | [] |
| 44 | hms. LoggedIn. loggedInUser | [MarkAttendance-Done] | [LoggedOut-LoggedIn-StudentModule, LoggedOut-LoggedIn-AdminModule, MarkAttendance-Done, LoggedOut-LoggedIn-EscalationModule, LoggedOut-LoggedIn-CentralAdminModule, LoggedOut-LoggedIn-WorkerModule] |
| 45 | hms. wardens | [WardenAdditionDone] | [WardenAdditionDone] |
| 46 | hms. LoggedIn. AdminModule. HostelManagement. RoomAddition. newRoom | [RoomAddition-RoomAddition] | [RoomAddition-RoomAddition] |
| 47 | hms. LoggedIn. AdminModule. HostelManagement. RoomAddition. occupancy | [RoomAddition-RoomAddition] | [hms. LoggedIn. AdminModule. HostelManagement. RoomAddition] |
| 48 | hms. LoggedIn. AdminModule. UserManagement. UserAddition. newuser | [WardenAdditionDone, StudentAdditionDone] | [hms. LoggedIn. AdminModule. UserManagement. UserAddition] |
| 49 | hms. LoggedIn. AdminModule. UserManagement. UserAddition. username | [hms. LoggedIn. AdminModule. UserManagement. UserAddition, WardenAdditionDone, StudentAdditionDone] | [hms. LoggedIn. AdminModule. UserManagement. UserAddition] |
| 50 | hms. LoggedIn. CentralAdminModule. CreateEscalationPolicy. thirdOfficer | [hms. LoggedIn. CentralAdminModule. CreateEscalationPolicy] | [hms. LoggedIn. CentralAdminModule. CreateEscalationPolicy] |

| 51 | hms. LoggedIn. AdminModule. HostelManagement. RoomAllotment. RoomSelection. selectedWing | [RoomSelection-StudentSelection] | [hms. LoggedIn. AdminModule. HostelManagement. RoomAllotment. RoomSelection] |
|---|---|---|---|
| 52 | hms. LoggedIn. CentralAdminModule. ViewEscalatedComplaints. SearchComplaints. selectedComplaint | [SearchComplaints-ComplaintsDetail] | [hms. LoggedIn. CentralAdminModule. ViewEscalatedComplaints. SearchComplaints] |
| 53 | hms. complaintAcknowledged | [] | [hms] |
| 54 | hms. registeredUsers | [hms. LoggedOut, hms. LoggedIn. AdminModule. UserManagement. ViewUsers, WardenAdditionDone, EnableUserDone, DisableUserDone, UserDeletionDone, StudentAdditionDone] | [WardenAdditionDone, StudentAdditionDone] |
| 55 | hms. LoggedIn. StudentModule. ScheduleHouseKeeping. EnterVacation. outTime | [] | [] |
| 56 | hms. LoggedIn. AdminModule. ComplaintManagement. ForwardComplaints. c | [ForwardComplaints-ComplaintView] | [hms. LoggedIn. AdminModule. ComplaintManagement. ForwardComplaints, ComplaintsView-ForwardComplaints] |
| 57 | hms. LoggedIn. CentralAdminModule. ChangeEscalationPolicy. secondOfficer | [hms. LoggedIn. CentralAdminModule. ChangeEscalationPolicy] | [hms. LoggedIn. CentralAdminModule. ChangeEscalationPolicy] |
| 58 | hms. LoggedIn. AdminModule. ComplaintManagement. ComplaintsView. selectedComplaint | [ComplaintsView-ResolveComplaints, ComplaintsView-ForwardComplaints] | [hms. LoggedIn. AdminModule. ComplaintManagement. ComplaintsView] |
| 59 | hms. complaintForwarded | [hms. LoggedIn. AdminModule. ComplaintManagement. ForwardComplaints] | [hms] |
| 60 | hms. LoggedOut. enteredUser | [LoggedOut-LoggedIn-StudentModule, LoggedOut-LoggedIn-AdminModule, LoggedOut-LoggedIn-EscalationModule, LoggedOut-LoggedIn-CentralAdminModule, LoggedOut-LoggedIn-WorkerModule] | [hms. LoggedOut, LoggedIn-LoggedOut] |
| 61 | hms. LoggedIn. AdminModule. HostelManagement. CloseRoom. selectedWing | [CloseRoom-CloseRoom] | [CloseRoom-CloseRoom] |
| 62 | hms. LoggedIn. CentralAdminModule. ChangeEscalationPolicy. thirdOfficer | [hms. LoggedIn. CentralAdminModule. ChangeEscalationPolicy] | [hms. LoggedIn. CentralAdminModule. ChangeEscalationPolicy] |

| 63 | hms. LoggedIn. AdminModule. UserManagement. UserAddition. password | [hms. LoggedIn. AdminModule. UserManagement. UserAddition] | [hms. LoggedIn. AdminModule. UserManagement. UserAddition] |
|---|---|---|---|
| 64 | hms. LoggedIn. AdminModule. WorkerManagement. DepartmentAddition. newDepartment | [DepartmentAddition-Done] | [DepartmentAddition-Done] |
| 65 | hms. LoggedOut. pass | [LoggedOut-LoggedIn-StudentModule, LoggedOut-LoggedIn-AdminModule, LoggedOut-LoggedIn-EscalationModule, LoggedOut-LoggedIn-CentralAdminModule, LoggedOut-LoggedIn-WorkerModule] | [hms. LoggedOut, LoggedIn-LoggedOut] |
| 66 | hms. LoggedIn. AdminModule. HostelManagement. WingAddition. name | [hms. LoggedIn. AdminModule. HostelManagement. WingAddition, WingAddition-WingAddition] | [hms. LoggedIn. AdminModule. HostelManagement. WingAddition] |
| 67 | hms. LoggedIn. AdminModule. HostelManagement. CloseRoom. wing-name | [CloseRoom-CloseRoom] | [hms. LoggedIn. AdminModule. HostelManagement. CloseRoom] |
| 68 | hms. LoggedIn. AdminModule. WorkerManagement. DepartmentAddition. departmentName | [DepartmentAddition-Done] | [hms. LoggedIn. AdminModule. WorkerManagement. DepartmentAddition] |
| 69 | hms. studenttype | [LoggedOut-LoggedIn-StudentModule] | [hms] |
| 70 | hms. LoggedIn. AdminModule. StudentManagement. FineStudents. newFine | [FineStudentsDone] | [FineStudentsDone] |
| 71 | hms. LoggedIn. AdminModule. UserManagement. UserAddition. WardenAddition. w | [WardenAdditionDone] | [hms. LoggedIn. AdminModule. UserManagement. UserAddition. WardenAddition, WardenAdditionDone] |
| 72 | hms. LoggedIn. AdminModule. StudentManagement. FineStudents. amount | [FineStudentsDone] | [hms. LoggedIn. AdminModule. StudentManagement. FineStudents] |
| 73 | hms. LoggedIn. AdminModule. UserManagement. ViewUsers. username | [hms. LoggedIn. AdminModule. UserManagement. ViewUsers, EnableUserDone, DisableUserDone, UserDeletionDone] | [hms. LoggedIn. AdminModule. UserManagement. ViewUsers] |
| 74 | hms. LoggedIn. AdminModule. WorkerManagement. DepartmentAddition. contactno | [DepartmentAddition-Done] | [hms. LoggedIn. AdminModule. WorkerManagement. DepartmentAddition] |

| 75 | hms. wings | [CloseRoom-CloseRoom, WingAddition-WingAddition] | [WingAddition-WingAddition] |
|----|------------|---------------------------------------------------|-----------------------------|
| 76 | hms. LoggedOut. uname | [hms. LoggedOut] | [hms. LoggedOut, LoggedIn-LoggedOut] |
| 77 | hms. LoggedIn. AdminModule. HostelManagement. CloseRoom. roomno | [CloseRoom-CloseRoom] | [hms. LoggedIn. AdminModule. HostelManagement. CloseRoom] |
| 78 | hms. LoggedIn. AdminModule. HostelManagement. CloseRoom. selectedRoom | [CloseRoom-CloseRoom] | [CloseRoom-CloseRoom] |
| 79 | hms. LoggedIn. AdminModule. StudentManagement. StudentSearch. key | [Search-SearchByName, Search-SearchByRollNo] | [hms. LoggedIn. AdminModule. StudentManagement. StudentSearch. SearchByName, hms. LoggedIn. AdminModule. StudentManagement. StudentSearch. SearchByRollNo] |
| 80 | hms. LoggedIn. AdminModule. UserManagement. UserAddition. StudentAddition. batchOfJoining | [hms. LoggedIn. AdminModule. UserManagement. UserAddition. StudentAddition] | [hms. LoggedIn. AdminModule. UserManagement. UserAddition. StudentAddition] |
| 81 | hms. LoggedIn. AdminModule. UserManagement. UserAddition. confirmpassword | [] | [hms. LoggedIn. AdminModule. UserManagement. UserAddition] |
| 82 | hms. LoggedIn. StudentModule. ComplaintModule. MakeComplaints. complaintArea | [] | [hms. LoggedIn. StudentModule. ComplaintModule. MakeComplaints] |
| 83 | hms. LoggedIn. CentralAdminModule. CreateEscalationPolicy. secondOfficer | [hms. LoggedIn. CentralAdminModule. CreateEscalationPolicy] | [hms. LoggedIn. CentralAdminModule. CreateEscalationPolicy] |
| 84 | hms. complaintRejected | [] | [hms] |
| 85 | hms. LoggedIn. AdminModule. ComplaintManagement. ForwardComplaints. toDepartment | [hms. LoggedIn. AdminModule. ComplaintManagement. ForwardComplaints, ForwardComplaints-ComplaintView] | [hms. LoggedIn. AdminModule. ComplaintManagement. ForwardComplaints] |

| 86 | hms. students | [hms. LoggedIn. AdminModule. StudentManagement. StudentSearch. SearchByName, hms. LoggedIn. AdminModule. StudentManagement. StudentSearch. SearchByRollNo, Search-SearchByName, StudentAdditionDone, Search-SearchByRollNo] | [StudentAdditionDone] |
|---|---|---|---|
| 87 | hms. LoggedIn. AdminModule. WorkerManagement. WorkersView. departmentid | [] | [hms. LoggedIn. AdminModule. WorkerManagement. WorkersView] |
| 88 | hms. complaintReviewedandPropogated | [] | [hms] |
| 89 | hms. LoggedIn. AdminModule. WorkerManagement. WorkersView. workerList | [] | [] |
| 90 | hms. centreheadtype | [LoggedOut-LoggedIn-EscalationModule] | [hms] |
| 91 | hms. LoggedIn. AdminModule. StudentManagement. StudentSearch. SearchByRollNo. no | [hms. LoggedIn. AdminModule. StudentManagement. StudentSearch. SearchByRollNo] | [hms. LoggedIn. AdminModule. StudentManagement. StudentSearch. SearchByRollNo] |
| 92 | hms. LoggedIn. AdminModule. StudentManagement. FineStudents. stud | [FineStudentsDone] | [StudentSearch-FineStudents, FineStudentsDone] |
| 93 | hms. LoggedIn. CentralAdminModule. ChangeEscalationPolicy. firstOfficer | [hms. LoggedIn. CentralAdminModule. ChangeEscalationPolicy] | [hms. LoggedIn. CentralAdminModule. ChangeEscalationPolicy] |
| 94 | hms. LoggedIn. CentralAdminModule. ChangeEscalationPolicy. deadline1 | [hms. LoggedIn. CentralAdminModule. ChangeEscalationPolicy] | [hms. LoggedIn. CentralAdminModule. ChangeEscalationPolicy] |
| 95 | hms. LoggedIn. AdminModule. WorkerManagement. DepartmentAddition. departmentHead | [DepartmentAddition-Done] | [hms. LoggedIn. AdminModule. WorkerManagement. DepartmentAddition] |
| 96 | hms. LoggedIn. CentralAdminModule. ChangeEscalationPolicy. deadline2 | [hms. LoggedIn. CentralAdminModule. ChangeEscalationPolicy] | [hms. LoggedIn. CentralAdminModule. ChangeEscalationPolicy] |
| 97 | hms. LoggedIn. CentralAdminModule. ChangeEscalationPolicy. deadline3 | [hms. LoggedIn. CentralAdminModule. ChangeEscalationPolicy] | [hms. LoggedIn. CentralAdminModule. ChangeEscalationPolicy] |

| | | | |
|---|---|---|---|
| 98 | hms. LoggedIn. CentralAdminModule. ViewEscalatedComplaints. SearchComplaints. complaintList | [] | [hms. LoggedIn. CentralAdminModule. ViewEscalatedComplaints. SearchComplaints] |
| 99 | hms. LoggedIn. AdminModule. ComplaintManagement. ResolveComplaints. c | [ResolveComplaints-ComplaintView] | [hms. LoggedIn. AdminModule. ComplaintManagement. ResolveComplaints, ComplaintsView-ResolveComplaints] |
| 100 | hms. LoggedIn. AdminModule. HostelManagement. RoomAddition. selectedWing | [RoomAddition-RoomAddition] | [hms. LoggedIn. AdminModule. HostelManagement. RoomAddition, RoomAddition-RoomAddition] |
| 101 | hms. policy | [Dashboard-EnableEscalationPolicy, Dashboard-CreateEscalationPolicy, Dashboard-DisableEscalationPolicy, Dashboard-ChangeEscalationPolicy, CreateEscalationPolicy-Done] | [hms. LoggedIn. CentralAdminModule. ChangeEscalationPolicy, Dashboard-EnableEscalationPolicy, Dashboard-DisableEscalationPolicy, CreateEscalationPolicy-Done] |

Table 3: Actual R and W scope for hmsnew.txt