E-School

A School Management System

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# **Actors**

This system has 6 actors. They are-

1. Student
2. Course Teacher
3. Class Teacher
4. Parent
5. Headmaster
6. System Administrator

## **Actor’s Glossary**

The actor’s glossary shows the short codes and activity scopes of every actor.

Table 1: Actor's Glossary

|  |  |  |
| --- | --- | --- |
| **Actor** | **Short Key** | **Activity Scope** |
| Student | ST | Viewing notice, routine, syllabus, result, fees status of thyself. |
| Course Teacher | CT | Adding class test schedule, syllabus & mark, giving feedback, inserting exam mark, view duty roster, |
| Class Teacher | CLT | Adding details of students, making result, giving feedback, adding attendance of students, issuing admit card. |
| Parents | PT | Viewing notice, routine, syllabus and result, fees status of their children, viewing notice and getting in contact with teacher. |
| Headmaster | HM | Approving result, appointing system admin, tracking fees status |
| System Admin | SA | Adding & deleting user, updating user role & details, assigning course teacher and class teacher, preparing and sending class & exam routine, preparing duty roster, inserting notice, updating vacation list, prepare and send routine. |

## **Relation between Actors**

The relation between the actors are stated below.

* The actor **Class Teacher** inherits actor **Course Teacher**. Because all **Class Teacher** are **Course Teacher** but all **Course Teacher** are not **Class Teacher**.
* The actor **System Admin** is inherited by the actor **Headmaster.**
* The actor **System Admin** inherits the actor **Course Teacher** because a **Course Teacher** can work as a **System Admin** if the **Headmaster** makes him **System Admin**.
* Each **Parent** is connected to at least one **Student**.



Figure 1: Actors Relation

# **Subsystems**

This system has 6 subsystems. They are-

1. User Profile Subsystem
2. Student Profile Subsystem
3. Course Work Subsystem
4. Examination Subsystem
5. Result Subsystem
6. Notice Subsystem

## **User Profile Subsystem**

### **Use Case Glossary:**

Table 2: Use Case Glossary of User Profile Subsystem

|  |  |  |
| --- | --- | --- |
| **Use Case ID** | **Use Case Name** | **Actor** |
| 1.1 | Add User with Role | SA, HM |
| 1.2 | Add User Details | CLT, SA |
| 1.3 | View User Details | ST, PT, CT, SA, CLT, HM |
| 1.4 | Login | ST, PT, CT, SA, CLT, HM |
| 1.5 | Update Details | CLT, CT, SA, HM |
| 1.6 | Delete User | SA |
| 1.7 | Updating user role | SA, HM |

## 

## **Use Case Diagram:**



Figure 2: Use Case Diagram of User Profile Subsystem

### **Use Case Narrative:**

## **Add User with Role**

#### High Level Table Version:

|  |  |
| --- | --- |
| Use Case Name | Add User with Role |
| Use Case ID | 1.1 |
| Priority | High |
| Primary Actor | System Administrator, Headmaster |
| Secondary Actor | None |
| Description | Adding new users in the system and appointing roles |
| Trigger | By System Administrator or Headmaster |

Table 3: Use Case Narrative: Add User with Role

#### Typical Course of Event:

* Headmaster add user and appoint roles to them.
* Headmaster is by default a System Administrator and he can appoint Course Teachers as system admin
* System Administrator add Students, Parents and other Course Teachers to the system.
* System Administrator can appoint a Course Teacher as Class Teacher.

#### Conclusion:

* Every user gets a username and password which can be used to login to his profile according to roles.

#### Post Condition:

* User got an account and access to the services according to roles.

## **Add User Details**

#### High Level Table Version:

|  |  |
| --- | --- |
| Use Case Name | Add User Details |
| Use Case ID | 1.2 |
| Priority | High |
| Primary Actor | System Administrator, Class Teacher |
| Secondary Actor | None |
| Description | Adding details of Course Teacher, Class Teacher, Student |
| Trigger | User added by System Administrator or Headmaster |

Table 4: Use Case Narrative: Add User Details

#### Typical Course of Event:

* System Admin adds details of thyself (Headmaster and other Course Teacher appointed as System Admin)
* Class Teacher adds details of the Students of his or her class

#### Conclusion:

* All profiles become updated with details

#### Post Condition:

* Details of all user is being updated and can be seen by others according to permissions.

## **View User Details**

#### High Level Table Version:

|  |  |
| --- | --- |
| Use Case Name | View User Details |
| Use Case ID | 1.3 |
| Priority | High |
| Primary Actor | System Administrator, Class Teacher, Course Teacher, Headmaster, Student, Parent |
| Secondary Actor | None |
| Description | View details of Course Teacher, Headmaster, Student |
| Trigger | Details added by Class Teacher, System Administrator |

Table 5: Use Case Narrative: View User Details

#### Typical Course of Event:

* Parents can see details of the Student they are connected with.
* Students can see their own profile.
* Headmaster, Course Teacher & Class Teacher can see Student profile
* Course Teacher can see his or her profile and Parents & Students can see some specific details of Course Teacher’s profile.
* Headmaster can see full details of everyone’s profile
* Nobody except Headmaster can see his profile.

#### Conclusion:

* All actors get to see the details of themselves and others according to permission.

#### Post Condition:

* Details of users can be seen according to role of actor.

## **Login:**

#### High Level Table Version:

|  |  |
| --- | --- |
| Use Case Name | Login |
| Use Case ID | 1.4 |
| Priority | High |
| Primary Actor | System Administrator, Class Teacher, Course Teacher, Headmaster, Student, Parent |
| Secondary Actor | None |
| Description | Login to view profile and get services provided by the system |
| Trigger | Receiving username, password after user account is being created by System Administrator and Headmaster |

Table 6: Use Case Narrative: Login

#### Typical Course of Event:

* Login with username and password to receive the services provided by the system.

#### Conclusion:

* All actors get to login to their profile to receive provided services.

#### Post Condition:

* All actors can see what services they are being provided and receive those services.

## **Update Details**

#### High Level Table Version:

|  |  |
| --- | --- |
| Use Case Name | Update Details |
| Use Case ID | 1.5 |
| Priority | Medium |
| Primary Actor | System Administrator, Class Teacher, Course Teacher, Headmaster |
| Secondary Actor | None |
| Description | Update of Course Teacher, Headmaster, Student |
| Trigger | By Class Teacher, System Administrator, Headmaster, System Administrator |

Table 7: Use Case Narrative: Update Details

#### Typical Course of Event:

* Headmaster can update his own details along with details of others
* Course Teacher can update own details
* System Admin can update everybody’s details except Headmaster
* Class Teacher can update details of the Students of his/ her class.

#### Conclusion:

* Details of users are being updated according to need.

#### Post Condition:

* Details of users are made up to date.

## **Delete User**

#### High Level Table Version:

|  |  |
| --- | --- |
| Use Case Name | Delete User |
| Use Case ID | 1.6 |
| Priority | Low |
| Primary Actor | System Administrator |
| Secondary Actor | None |
| Description | User are deleted when they are no longer related to this institution |
| Trigger | User is no longer related to this institution |

Table 8: Use Case Narrative: Delete User

#### Typical Course of Event:

* System Administrator deletes a user when they are no longer related to the institution. Such as- Course Teacher retiring or Resigning, Students getting TC or passed the School.
* When a user in being deleted it deletes the account but preserves all the data for documentation and record.

#### Conclusion:

* Accounts of users having no link to the institution are being deleted.

#### Post Condition:

* Only account whose users are related to the institution is in the system.

## **Updating User Role**

#### High Level Table Version:

|  |  |
| --- | --- |
| Use Case Name | Update User Role |
| Use Case ID | 1.7 |
| Priority | Medium |
| Primary Actor | System Administrator, Headmaster |
| Secondary Actor | None |
| Description | Updating user role. |
| Trigger | none |

Table 9: Use Case Narrative: Update User Role

#### Typical Course of Event:

* System Administrator can appoint a Course Teacher as a Class Teacher and can also remove the role.
* Headmaster can appoint a Course Teacher as System Administrator and also remove the role.

#### Conclusion:

* System Administrator and Class Teacher are being appointed.

#### Post Condition:

* Some Course Teacher are being appointed as System Administrator and Class Teacher.

## **Student Profile Subsystem**

### **Use Case Glossary:**

Table 10: Use Case Glossary of Student Profile Subsystem

|  |  |  |
| --- | --- | --- |
| **Use Case ID** | **Use Case Name** | **Actor** |
| 2.1 | Update Fee Status | CLT |
| 2.2 | View Fee Status | ST, PT, HM |
| 2.3 | Update Behaviour, Class Performance & Feedback | CLT, CT |
| 2.4 | View Behaviour, Class Performance & Feedback | ST, PT |
| 2.5 | Add Co- Curricular Activities | CLT |
| 2.6 | View Co- Curricular Activities | ST, PT |
| 2.7 | Add Attendance | CLT |
| 2.8 | View Attendance | S, PT |

## **Use Case Diagram:**



Figure 3: Use Case Diagram of Student Profile Subsystem

### **Use Case Narrative:**

## **Pay Fees**

#### High Level Table Version:

Table 11: Use Case Narrative: Pay Fees

|  |  |
| --- | --- |
| Use Case Name | Pay fees |
| Use Case ID | 2.1 |
| Priority | High |
| Primary Actor | Class Teacher |
| Secondary Actor | None |
| Description | Inserting monthly fees, dues |
| Trigger | None |

#### Typical Course of Event:

* Class teachers insert Pay fees of every students
* Dues are also inserted by class teacher

#### Conclusion:

* The status of fees is updated.

#### Post Condition:

* No post condition here.

## **2.2 View Fee Status**

#### High Level Table Version:

Table 12: Use Case Narrative: View Fee Status

|  |  |
| --- | --- |
| Use Case Name | View fee status |
| Use Case ID | 2.2 |
| Priority | High |
| Primary Actor | Students, Parents |
| Secondary Actor | Headmaster |
| Description | Parents can see the dues, fees |
| Trigger | None |

#### Typical Course of Event:

* Students can see their tuition fees in this section.
* Parents can also see their corresponding student’s fees and dues.

#### Conclusion:

* Student and Parent is acknowledged about respective fees status.

#### Post Condition:

* No post condition here.

## **2.3 Insert Behaviour, Feedback, Class performance**

#### High Level Table Version:

Table 13: Use Case Narrative: Insert Behaviours, Feedback and Class Performance

|  |  |
| --- | --- |
| Use Case Name | Insert behaviour, feedback, class performance |
| Use Case ID | 2.3 |
| Priority | High |
| Primary Actor | Class teacher, Course teacher |
| Secondary Actor | None |
| Description | Students class activities will be noted here |
| Trigger | None |

#### Typical Course of Event:

* Students’ response will be enlisted here.
* Class behaviour, performance will be noted.

#### Conclusion:

* Student’s Profile is updated with Behaviour, Class Performance and Feedback.

#### Post Condition:

* Behaviour, Class Performance is ready to be seen by Parents

## **2.4 View behaviour, feedback, class performance**

#### High Level Table Version:

Table 14: Use Case Narrative: **View behaviour, feedback, class performance**

|  |  |
| --- | --- |
| Use Case Name | View behaviour, feedback, class performance |
| Use Case ID | 2.4 |
| Priority | High |
| Primary Actor | Students, Parents |
| Secondary Actor | Headmaster |
| Description | Guardians can get their students news and activities easily |
| Trigger | None |

#### Typical Course of Event:

* Parents can easily access their students activities
* They can also get updated news.

#### Conclusion:

* Parents are notified about the performance of their children.

#### Post Condition:

* No post condition here.

## **2.5 Add Co-Curricular Activities**

#### High Level Table Version:

Table 15: Use Case Narrative: Add Co-Curricular Activities

|  |  |
| --- | --- |
| **Use Case Name** | **Add User with Role** |
| **Use Case ID** | 2.5 |
| **Priority** | High |
| **Primary Actor** | Class Teacher |
| **Secondary Actor** | None |
| **Description** | Adding the Co-Curricular activities record list of the student |
| **Trigger** | By Class Teacher |

#### Typical Course of Event:

* Class Teacher adds the Co-Curricular activities record of the student concerned
* All the record of Co-Curricular activities will be updated in the student's profile by the Class Teacher.

#### Conclusion:

* The Student's Co-Curricular activities gets updated in the student’s profile.

#### Post Condition:

* The Student's Co-Curricular activities can now be viewed by the student and the parent from their respective profiles.

## **2.6 View Co-Curricular Activities**

#### High Level Table Version:

Table 16: Use Case Narrative: View Co-Curricular Activities

|  |  |
| --- | --- |
| **Use Case Name** | **Insert Students Activities** |
| **Use Case ID** | 2.6 |
| **Priority** | High |
| **Primary Actor** | Student, Parent |
| **Secondary Actor** | None |
| **Description** | Viewing Co-Curricular activities of the student |
| **Trigger** | Added by Class Teacher |

#### Typical Course of Event:

* Students can view their Co-Curricular activities record from their own respective profile which was added by the Class Teacher.
* Parents can also view their children's co-curricular activities record from their own respective profile.

#### Conclusion:

* All record of Co-Curricular activities of student is now ready to be viewed by the students and their parents.

#### Post Condition:

* The Parents can know about their children's co-curricular activities achievements by viewing the Co-curricular activities record.

## **2.7 Add Attendance**

#### High Level Table Version:

Table 17: Use Case Narrative: Add Attendance

|  |  |
| --- | --- |
| **Use Case Name** | **Insert Students Activities** |
| **Use Case ID** | 2.7 |
| **Priority** | High |
| **Primary Actor** | Class Teacher |
| **Secondary Actor** | None |
| **Description** | Inserting the attendance of students |
| **Trigger** | Added by Class Teacher |

#### Typical Course of Event:

* The Class Teacher has the record of the student's attendance and so enters it into the student’s profile.
* If any mistake is made during entry it can be corrected only by the Class Teacher and The Headmaster as the Headmaster has access to everything.
* After being inserted, the attendance record gets saved in the Students profile and becomes ready to view.

#### Conclusion:

* The Attendance of the students gets inserted in the students profile after having added by the Class Teacher.

#### Post Condition:

* After the attendance of the Students is added in the student's profile it is now ready for the Students, parents and Headmaster to view.

## **2.8 View Attendance**

#### High Level Table Version:

Table 18: Use Case Narrative: View Attendance

|  |  |
| --- | --- |
| Use Case Name | View Attendance |
| Use Case ID | 2.8 |
| Priority | High |
| Primary Actor | Students, Parents |
| Secondary Actor | Headmaster |
| Description | Make the guardians informed about students presence |
| Trigger | None |

#### Typical Course of Event:

* The Parents can monitor the attendance of their children.

#### Conclusion:

* The attendance status is known by the Parents

#### Post Condition:

* No post condition here.

## **Course Work Subsystem**

### **Use Case Glossary:**

Table 19: Use Case Glossary of Course Work Subsystem

|  |  |  |
| --- | --- | --- |
| **Use Case ID** | **Use Case Name** | **Actor** |
| 3.1 | Assign Course Teacher | SA |
| 3.2 | Prepare Routine | SA |
| 3.3 | Send Routine | SA |
| 3.4 | View Routine | ST, PT, CT, SA |
| 3.5 | Add Class Test Schedule & Syllabus | CT |
| 3.6 | Update Class Test Mark | CT |
| 3.7 | View Class Test Mark | ST, PT |
| 3.8 | Post Notice | CT |
| 3.9 | View Notice | ST, PT |

## **Use Case Diagram:**



Figure 4: Use Case Diagram of Course Work Subsystem

### **Use Case Narrative:**

## **Assign Course Teacher**

#### High Level Table Version:

|  |  |
| --- | --- |
| Use Case Name | Assign Course Teacher |
| Use Case ID | 3.1 |
| Priority | High |
| Primary Actor | System Administrator |
| Secondary Actor | None |
| Description | Assigning courses to Course Teacher |
| Trigger | By System Administrator |

Table 20: Use Case Narrative: Assign Course Teacher

#### Typical Course of Event:

* System Administrator will assign courses to Course Teachers

#### Conclusion:

* Every Course Teacher will know which course they are teaching and to which class.

#### Post Condition:

* Course Teacher will get access to the details of the Students whom he/ she will teaches and will get a specific page where he/ she can use the services provided to a course teacher to manage a course by the system.

## **Prepare Routine**

#### High Level Table Version:

|  |  |
| --- | --- |
| Use Case Name | Prepare Routine |
| Use Case ID | 3.2 |
| Priority | High |
| Primary Actor | System Administrator |
| Secondary Actor | None |
| Description | Creates Class Routine for all classes based on the input of classes, courses. |
| Trigger | Assigning Course Teacher |

Table 21: Use Case Narrative: Prepare Routine

#### Typical Course of Event:

* System administers the number of classes, courses for each classes and other details.
* According to the inserted details and list of assigned Course Teachers system generates the class routine for Students and Course Teacher.

#### Conclusion:

* Class Routine for Students and Course Teachers are being made.

#### Post Condition:

* Class Routine for Students and Course Teachers are ready to be send.

## **Send Routine**

#### High Level Table Version:

|  |  |
| --- | --- |
| Use Case Name | Send Routine |
| Use Case ID | 3.3 |
| Priority | Medium |
| Primary Actor | System Administrator |
| Secondary Actor | None |
| Description | Prepared Routines are being published |
| Trigger | Class Routines are prepared. |

Table 22: Use Case Narrative: Send Routine

#### Typical Course of Event:

* The System Administrator will publish the Class Routine in the system.

#### Conclusion:

* The Class Routines are published in the system.

#### Post Condition:

* Class Routines are published in the system to be seen by the users.

## **View Routine:**

#### High Level Table Version:

|  |  |
| --- | --- |
| Use Case Name | View Routine |
| Use Case ID | 3.4 |
| Priority | High |
| Primary Actor | System Administrator, Course Teacher, Student, Parent |
| Secondary Actor | None |
| Description | See the routine from user profile |
| Trigger | Sending routine by System Administrator |

Table 23: Use Case Narrative: View Routine

#### Typical Course of Event:

* Parents and Students can see the respective class routine from their profile.
* Course Teacher can see their respective routine. (Each Course Teacher gets own routine)
* System Administrator can see all the routines.

#### Conclusion:

* All actors have their class routines.

#### Post Condition:

* All actors can see the respective class routine from their profile.

## **3.5 Add Class Test Schedule & Syllabus**

#### High Level Table Version:

Table 24: Use Case Narrative: Prepare Result

|  |  |
| --- | --- |
| Use Case Name | Add Class Test Schedule & Syllabus |
| Use Case ID | 3.5 |
| Priority | High |
| Primary Actor | Course Teacher (CT) |
| Secondary Actor | Student (ST) |
| Description | CT can give input about Class Test schedule and result |
| Trigger | By CT |

#### Typical Course of Event:

* CT gives the **Class Test Schedule**
* CT also adds the **Syllabus**

#### Conclusion:

* Details about class test is added by CT for ST

#### Post Condition:

* Details about class test is uploaded.

## **3.6 Update Class Test Mark**

#### High Level Table Version:

Table 25: Use Case Narrative: Prepare Result

|  |  |
| --- | --- |
| Use Case Name | Update Class Test Mark |
| Use Case ID | 3.6 |
| Priority | Medium |
| Primary Actor | Course Teacher (CT) |
| Secondary Actor | Student (ST) |
| Description | CT can give input about Class Test marks |
| Trigger | By CT |

#### Typical Course of Event:

* CT gives the **marks of Class test**

#### Conclusion:

* Details about the performance of students in class test is added by CT for ST

#### Post Condition:

* Marks of class test is uploaded.

## **3.7 View Class Test Mark**

#### High Level Table Version:

Table 26: Use Case Narrative: Prepare Result

|  |  |
| --- | --- |
| Use Case Name | View Class Test Mark |
| Use Case ID | 3.7 |
| Priority | Low |
| Primary Actor | Student (ST),Parent(PT) |
| Secondary Actor | None |
| Description | ST and PT can view Class Test marks |
| Trigger | By ST,PT |

#### Typical Course of Event:

* ST and PT can view the **marks of Class test**

#### Conclusion:

* Details about the performance of students in class test is viewed by ST and PT

#### Post Condition:

* Marks of class test is viewed by ST and PT.

## **3.8 Post Notice**

#### High Level Table Version:

Table 27: Use Case Narrative: Prepare Result

|  |  |
| --- | --- |
| Use Case Name | Post Notice |
| Use Case ID | 3.8 |
| Priority | High |
| Primary Actor | Course Teacher(CT) |
| Secondary Actor | Student (ST), Parent (PT) |
| Description | CT updates any upcoming event in the notice section |
| Trigger | By CT |

#### Typical Course of Event:

* CT updates any information or notice about any upcoming events.

#### Conclusion:

* Details about the upcoming events is updated.

#### Post Condition:

* Notice is updated.

## **3.9 View Notice**

#### High Level Table Version:

Table 28: Use Case Narrative: Prepare Result

|  |  |
| --- | --- |
| Use Case Name | Add User with Role |
| Use Case ID | 3.9 |
| Priority | High |
| Primary Actor | Student (ST), Parent (PT) |
| Secondary Actor | None |
| Description | ST and PT view notice |
| Trigger | By ST,PT |

#### Typical Course of Event:

* ST and PT view notice
* ST and PT get aware of any updates any information or notice about any upcoming events.

#### Conclusion:

* ST and PT view details about the upcoming events.

#### Post Condition:

* Notice is viewed by ST and PT.

## **Examination Subsystem**

### **Use Case Glossary:**

Table 29: Use Case Glossary of Examination Subsystem

|  |  |  |
| --- | --- | --- |
| **Use Case ID** | **Use Case Name** | **Actor** |
| 4.1 | Update Examination Schedule | SA |
| 4.2 | View Examination Schedule | ST, PT, CT |
| 4.3 | Prepare Examination Duty Roster | SA |
| 4.4 | View Duty Roster | CT |
| 4.5 | Insert Marks of Exam Paper | CT |
| 4.6 | Issue Admit Card | CT |
| 4.7 | Print Admit Card | CT |

## **Use Case Diagram:**



Figure 5: Use Case Diagram of Examination Subsystem

### **Use Case Narrative:**

## Update Exam Schedule

#### High Level Table Version:

Table 4.1: Use Case Narrative: Update Exam Schedule

|  |  |
| --- | --- |
| Use Case Name | Update Exam Schedule |
| Use Case ID | 4.1 |
| Priority | High |
| Primary Actor | System Administrator, Headmaster |
| Secondary Actor | None |
| Description | SA and HM update exam schedule |
| Trigger | None |

#### Typical Course of Event:

* Head master or System adminitrator inputs the new exam schedule into the system.

#### Post Condition:

* Students are notified about the exam schedule in notice subsystem

## View Examination Schedule

#### High Level Table Version:

Table 4.2: Use Case Narrative: View Examination Schedule

|  |  |
| --- | --- |
| Use Case Name | View Examination Schedule |
| Use Case ID | 4.2 |
| Priority | Medium |
| Primary Actor | Student |
| Secondary Actor | Parent, Course Teacher,Student |
| Description | After Exam Schedule has been updated, PT,ST and CT can view the schedule |
| Trigger | None |

#### Typical Course of Event:

* Students view their exam schedule.
* Parents and course teachers can also view the schedule.

#### Post Condition:

* Students are aware of the exam schedule .

## Prepare Examination Duty Roster

#### High Level Table Version:

Table 4.30: Use Case Narrative: Prepare Examination Duty Roster

|  |  |
| --- | --- |
| Use Case Name | Prepare Examination Duty Roster |
| Use Case ID | 4.3 |
| Priority | High |
| Primary Actor | Headmater, System Adminstrator |
| Secondary Actor | None |
| Description | Defining duty roaster for CT and CLT |
| Trigger | Exam schedule has been announced |

#### Typical Course of Event:

* Headmaster prepares duty roster for teachers and he or system admin inputs it into the system.

#### Post Condition:

* Duty roaster is ready for viweing.

## View Duty Roster

#### High Level Table Version:

Table 4.4: Use Case Narrative: View Duty Roster

|  |  |
| --- | --- |
| Use Case Name | View Duty Roster |
| Use Case ID | 4.4 |
| Priority | Medium |
| Primary Actor | Course Teacher |
| Secondary Actor | None |
| Description | Examination duty roster has been prepared |
| Trigger | None |

#### Typical Course of Event:

* Headmaster prepares duty roster for teachers and he or system admin inputs it into the system.
* Course Teachers view the duty roster to see his duty time

#### Post Condition:

* CT and CLT are aware of their duty roaster .

## Insert Marks of Exam Paper

#### High Level Table Version:

Table 4.5: Use Case Narrative: Insert Marks of Exam Paper

|  |  |
| --- | --- |
| Use Case Name | Insert Marks of Exam Paper |
| Use Case ID | 4.5 |
| Priority | High |
| Primary Actor | Course Teacher |
| Secondary Actor | None |
| Description | After exam papers have been checked,marks are inserted. |
| Trigger | None |

#### Typical Course of Event:

* Course Teacher checks the exam paper & scrutinizes.
* Course Teacher inserts the marks into the system.

#### Post Condition:

* All the marks have been iserted.

## Issue Admit Card

#### High Level Table Version:

Table4.6: Use Case Narrative: Issue Admit Card

|  |  |
| --- | --- |
| Use Case Name | Issue Admit Card |
| Use Case ID | 4.6 |
| Priority | High |
| Primary Actor | Class Teacher |
| Secondary Actor | None |
| Description | If Students have paid their dues they are provided admit card |
| Trigger | None |

#### Typical Course of Event:

* Class Teacher takes tution fees.
* If all dues are paid he issues the Admit Card

#### Post Condition:

* All the marks have been iserted.

## Print Admit Card

#### High Level Table Version:

Table 4.7: Use Case Narrative: Print Admit Card

|  |  |
| --- | --- |
| Use Case Name | Print Admit Card |
| Use Case ID | 4.7 |
| Priority | High |
| Primary Actor | Class Teacher |
| Secondary Actor | None |
| Description | Admit cards have been issued in a printed form. |
| Trigger | None |

#### Typical Course of Event:

* Class Teacher prints Admit card and delibers to the students

#### Post Condition:

* Admit Cards are available in a printed form.

## **Result Subsystem**

### **Use Case Glossary:**

Table 31: Use Case Glossary of Result Subsystem

|  |  |  |
| --- | --- | --- |
| **Use Case ID** | **Use Case Name** | **Actor** |
| 5.1 | Prepare Result | CT, CLT |
| 5.2 | Forwarding Result | CLT |
| 5.3 | View Result Summary and Approve | HM |
| 5.4 | Update Result | CT, CLT |
| 5.5 | Print Result | CLT |
| 5.6 | View Result | ST, PT, CLT |
| 5.7 | Result Publication Notification | PT, ST |

## **Use Case Diagram:**



Figure 6: Use Case Diagram of Result Subsystem

### **Use Case Narrative:**

## **Prepare Result**

#### High Level Table Version:

Table 32: Use Case Narrative: Prepare Result

|  |  |
| --- | --- |
| Use Case Name | Add User with Role |
| Use Case ID | 5.1 |
| Priority | High |
| Primary Actor | Course Teacher (CT), Class Teacher (CLT) |
| Secondary Actor | None |
| Description | After exam papers have been checked and scrutinized , result is prepared |
| Trigger | By CT and CLT |

#### Typical Course of Event:

* Course Teacher and Class Teacher give input of the marks
* CLT checks the results if any error is there
* The given mars with appropriate weight for the respective fields are calculated via our automated system.

#### Conclusion:

* Result of every student (ST) is made by CT and CLT

#### Post Condition:

* Result is prepared and ready for forwarding to HM.

## **Forwarding Result**

#### High Level Table Version:

Table 33: Use Case Narrative: Forwarding Result

|  |  |
| --- | --- |
| Use Case Name | Add User with Role |
| Use Case ID | 5.2 |
| Priority | High |
| Primary Actor | Class Teacher (CLT) |
| Secondary Actor | Head Master (HM) |
| Description | After Grade and Result sheets have been prepared by CT and CLT, CT forwards the result for approval of HM |
| Trigger | By CLT |

#### Typical Course of Event:

* CLT checks for any kind of mistake in the preparation of result of ST.
* If none found CLT forwards the result to HM for approval.

#### Conclusion:

* Result of every student (ST) is forwarded by CT and CLT

#### Post Condition:

* Result is waiting for approval of HM.

## **View Result Summary and Approve**

#### High Level Table Version:

Table 34: Use Case Narrative: Prepare Result

|  |  |
| --- | --- |
| Use Case Name | Add User with Role |
| Use Case ID | 5.3 |
| Priority | High |
| Primary Actor | Head Master (HM) |
| Secondary Actor | Student (ST), Parent (PT), Class Teacher (CT) |
| Description | After results have been forwarded by CLT,HM approves those result |
| Trigger | By HM |

#### Typical Course of Event:

* HM checks the result summary.
* HM approves if everything is fine with the result.

#### Conclusion:

* Result of every student (ST) is approved by HM

#### Post Condition:

* Result Approved and ready for viewing.

## **Update Result**

#### High Level Table Version:

Table 35: Use Case Narrative: Prepare Result

|  |  |
| --- | --- |
| Use Case Name | Add User with Role |
| Use Case ID | 5.4 |
| Priority | Medium |
| Primary Actor | Course Teacher (CT), Class Teacher (CLT) |
| Secondary Actor | None |
| Description | After Grade and Result sheets have been prepared by CT and CLT, updating the content if needed |
| Trigger | By CT and CLT |

#### Typical Course of Event:

* Course Teacher and Class Teacher give update to input of the marks if needed.

#### Conclusion:

* Result of student (ST) is updated by CT and CLT

#### Post Condition:

* Result is prepared and ready for forwarding to HM.

## **Print Result**

#### High Level Table Version:

Table 36: Use Case Narrative: Prepare Result

|  |  |
| --- | --- |
| Use Case Name | Add User with Role |
| Use Case ID | 5.5 |
| Priority | Low |
| Primary Actor | Class Teacher (CLT) |
| Secondary Actor | Student (ST), Parent (PT) |
| Description | After Grade and Result sheets have been prepared by CT and CLT, CLT prints the results |
| Trigger | By CLT |

#### Typical Course of Event:

* Class Teacher print the result for hard copies.

#### Conclusion:

* Result of student (ST) is printed by CLT

#### Post Condition:

* Result ready for viewing in a hard copied form.

## **View Result**

#### High Level Table Version:

Table 37: Use Case Narrative: Prepare Result

|  |  |
| --- | --- |
| Use Case Name | Add User with Role |
| Use Case ID | 5.6 |
| Priority | Medium |
| Primary Actor | Student (ST), Parent (PT), Class Teacher (CLT) |
| Secondary Actor | None |
| Description | After approval by HM,CLT,ST and PT are allowed to view the result |
| Trigger | By ST,PT,CLT |

#### Typical Course of Event:

* ST, PT, CLT can view the result.
* CLT can access the result of all the students of his class.
* PT and ST can view only the result accounted for their profile

#### Conclusion:

* Result of student (ST) is viewed by CLT

#### Post Condition:

* ST and PT are aware of the result.

## **5.7 Result Publication Notification**

#### High Level Table Version:

Table 38: Use Case Narrative: Prepare Result

|  |  |
| --- | --- |
| Use Case Name | Add User with Role |
| Use Case ID | 5.7 |
| Priority | Medium |
| Primary Actor | Student (ST), Parent (PT |
| Secondary Actor | System Admin (SA) |
| Description | After approval by HM;ST and PT are notified to view the result |
| Trigger | By SA<ST<PT |

#### Typical Course of Event:

* ST, PT are notified to view the result.
* Individual notifications are sent to the ST and PT.

#### Conclusion:

ST, PT are notified about result.

#### Post Condition:

* ST and PT are aware of the result.

## **Notice Subsystem**

### **Use Case Glossary:**

|  |  |  |
| --- | --- | --- |
| **Use Case ID** | **Use Case Name** | **Actor** |
| 6.1 | Input Vacation List | SA |
| 6.2 | View Vacation List | ST, PT, CT |
| 6.3 | Input Notice | SA |
| 6.4 | View Notice | ST, PT, CT |

## **Use Case Diagram:**



Figure 7: Use Case Diagram of Notice Subsystem

**Use Case Narrative:**

**6.1 Input Notice**

*High Level Table Version:*

Table 39: Use Case Narrative: Input Notice

|  |  |
| --- | --- |
| **Use Case Name** | **Add User with Role** |
| **Use Case ID** | 6.1 |
| **Priority** | High |
| **Primary Actor** | System Administrator, Headmaster |
| **Secondary Actor** | None |
| **Description** | Posting notice on recent events |
| **Trigger** | Notice posted by Headmaster and System Administrator |

*Typical Course of Event:*

* Headmaster can input notice on any given event.
* System administrator can also input notice on any given event
* The input notice can be modified or updated when needed by the Headmaster as the Headmaster is by default a System administrator.

*Conclusion:*

* Both the System Administrator and Headmaster can input notice in the bulletin board.

*Post Condition:*

* After notice has been input it is ready for the Course Teachers, Students and parents to view.

## **6.2 View Notice**

#### High Level Table Version:

Table 40: Use Case Narrative: Add User with Role

|  |  |
| --- | --- |
| **Use Case Name** | **Add User with Role** |
| **Use Case ID** | 6.2 |
| **Priority** | High |
| **Primary Actor** | Headmaster, Course Teacher, Student, Parent |
| **Secondary Actor** | None |
| **Description** | Viewing the notice input by Headmaster or System Administrator |
| **Trigger** | Notice input by Headmaster or System Administrator |

#### Typical Course of Event:

* Headmaster can view the notice after input but System administrator cannot.
* Course Teachers, Students and Parents all can view the notice from their own accounts or in the bulletin board.

#### Conclusion:

* The notice input by Headmaster and System Administrator can easily be accessed by the course teachers, students and parents.

#### Post Condition:

* All actors can view the notice except the system administrator and receive information from the notices.

## **6.3 Input Vacation List**

#### High Level Table Version:

Table 41: Use Case Narrative: Input Vacation List

|  |  |
| --- | --- |
| **Use Case Name** | **Add User with Role** |
| **Use Case ID** | 6.3 |
| **Priority** | High |
| **Primary Actor** | System Administrator, Headmaster |
| **Secondary Actor** | None |
| **Description** | Posting list of vacations |
| **Trigger** | By System Administrator or Headmaster |

#### Typical Course of Event:

* Headmaster can input and update the list of vacations at any moment.
* System Administrator also has the power to input the list of vacations.

#### Conclusion:

1. Both the System Administrator and the Headmaster can input the vacation list in the system.

#### Post Condition:

* After vacation list has been input it is ready for the course teachers, students and parents to view.

## **6.4 View Vacation List**

#### High Level Table Version:

Table 42: Use Case Narrative: View Vacation List

|  |  |
| --- | --- |
| **Use Case Name** | **Add User with Role** |
| **Use Case ID** | 6.4 |
| **Priority** | High |
| **Primary Actor** | Headmaster, Course Teacher, Student, Parent |
| **Secondary Actor** | None |
| **Description** | Viewing the vacation list input by the Headmaster or the System Administrator |
| **Trigger** | Vacation List input by Headmaster or the System Administrator |

#### Typical Course of Event:

* Headmaster can view the vacation list after input but the System Administrator cannot.
* Course Teachers, Students and Parents can all view the vacation list from their own profiles/accounts.

#### Conclusion:

* The vacation list input by the Headmaster and/or the System Administrator can readily be accessed by the Course Teachers, Students and parents.

#### Post Condition:

* All actors can view the vacation list except the system administrator and receive information regarding vacation from it.