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| **Use case name:** Record Attendance | **ID: 1** | **Importance level:  High** |
| **Primary actor:** Teacher | **Use case type:** Essential, Overview | |
| **Stakeholders and interests**  Teacher – Wants to accurate store student attendance data for bookkeeping purposes and to see the engagement of their students  Student - Wants to their attendance to be accurate recorded so that they can receive their badges in a timely manner | | |
| **Brief description:**  Teacher records student attendance at a weekly meeting or weekend intensive. | | |
| **Preconditions:**  Students that are to be recorded have been added and the part or topic completed has been added to the system.  **Success Guarantee:**  Upon successful completion, there will be a new attendance record for each student indicating that they attend the event. | | |
| **Relationships:**  Association: Teacher | | |
| **Normal flow:**   1. Teacher has new attendance information to record. 2. Teacher enters date, test / topics / parts completed and students in attendance. 3. System logs attendance record | | |
| **Alternative/exceptional flows:**  2a. Teacher enters illegal date  1. System signals error and reject entry  2. Teacher responds to error:  2a . Teacher inputs alternative date  2b. Teacher cancels entry  2b. Teacher enters unknown test / topic / parts  1. System signals error and rejects entry  2. Teacher responds to error:  2a . Teacher performs Manage Test / Topic / Parts and adds the missing tests  2b. Teacher cancels entry  2c. Teacher enters unknown student  1. System signals error and rejects entry 2. Teacher responds to error:  2a . Teacher performs Manage Students and adds the missing tests  2b. Teacher cancels entry | | |

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| **Use case name:** Search Students | **ID: 2** | **Importance level:  Medium** |
| **Primary actor:** Teacher | **Use case type:** Essential, Overview | |
| **Stakeholders and interests**  Teacher – Wants to search for students based on multiple criteria to understand their student demographics better. | | |
| **Brief description:**  Teacher searches for students dependent on multiple criteria such as name, age, number of badges, etc. | | |
| **Preconditions:**  None  **Success Guarantee:**  Upon competition of this use case, the teacher will have a record of all students which match the provided search criteria. | | |
| **Relationships:**  Association: Teacher  Extension Points: View Student Details, step 4. | | |
| **Normal flow:**   1. Teacher has search criteria they want to apply 2. Teacher enters search criteria 3. System returns students who match the given criteria 4. Teacher reviews returned student information | | |
| **Alternative/exceptional flows:** | | |

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| **Use case name: View Student Details** | **ID: 3** | **Importance level:  Medium** |
| **Primary actor:** Teacher | **Use case type:** Essential, Overview | |
| **Stakeholders and interests**  Teacher – Wants to get a detailed looks at a student’s achievements and attendance records.  Student- Wants the teacher to be informed about their progress and attendance. | | |
| **Brief description:**  Teacher views a students detailed attendance record and badges. | | |
| **Preconditions:**  None  **Success Guarantee:**  Upon competition of this use case, the teacher will have a record of all students which match the provided search criteria. | | |
| **Relationships:**  Association: Teacher  Extends: View matching students in Search Students | | |
| **Normal flow:**   1. Teacher selects student to view details for 2. System presents student attendance and achievements 3. Teacher reviews data | | |
| **Alternative/exceptional flows:** | | |

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| **Use case name: Manage Students** | **ID: 4** | **Importance level:  High** |
| **Primary actor:** Teacher | **Use case type:** Essential, Overview | |
| **Stakeholders and interests**  **Teacher – Wants to track students progress by adding them in the system**  **Student – Wants the teacher to accurate track their progress** | | |
| **Brief description:**  **Teacher adds, modifies or delete a student from the system** | | |
| **Preconditions:**  **Success Guarantee:**  **Upon successful completion, a new student will be added or an existing student will be modified or deleted.** | | |
| **Relationships:**  Association: Teacher  Extends: View matching students in Search Students | | |
| **Normal flow:** | | |
| **Alternative/exceptional flows:** | | |

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| **Use case name: Manage Test / Topic / Parts** | **ID: 5** | **Importance level:  High** |
| **Primary actor:** Teacher | **Use case type:** Essential, Overview | |
| **Stakeholders and interests** | | |
| **Brief description:** | | |
| **Preconditions:**  **Success Guarantee:** | | |
| **Relationships:**  Association: Teacher  Extends: View matching students in Search Students | | |
| **Normal flow:** | | |
| **Alternative/exceptional flows:** | | |

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| **Use case name: Schedule Test** | **ID: 6** | **Importance level:  Low** |
| **Primary actor:** Teacher | **Use case type:** Essential, Overview | |
| **Stakeholders and interests**  Teacher – Wants to plan tests ahead of time to decrease mental burden on themselves.  Student- Wants teacher to plan tests ahead of time so that they can prepare. | | |
| **Brief description:**  **Teacher schedules a test for some topics** | | |
| **Preconditions:**  **Success Guarantee:**  Upon completion, a test will be added to the schedule for the specified date. | | |
| **Relationships:**  Association: Teacher | | |
| **Normal flow:**   1. Teacher has a test and date the want to schedule it for 2. Teacher enters test and date 3. System adds test to the schedule at the specified date 4. System informs teacher of success. | | |
| **Alternative/exceptional flows:**  2a. Teacher enters date in the past   1. System rejects entry  2. Teacher responds by:  2a. Changing date   1. System checks date again  2b. Cancel scheduling request  1. System cancels scheduling request  2b. Teacher enters date already taken   1. System rejects entry  2. System offers alternate date  3. Teacher responds by:  3a. Changing date   1. System checks date again  3b. Cancel scheduling request  1. System cancels scheduling request | | |

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| **Use case name: View Schedule** | **ID: 7** | **Importance level:  High** |
| **Primary actor:** Teacher | **Use case type:** Essential, Overview | |
| **Stakeholders and interests**  **Teacher – Wants a reminder of what tests are coming up to structure their study plans** | | |
| **Brief description:**  **Teacher views the schedule of upcoming tests** | | |
| **Preconditions:**  None  **Success Guarantee:**  **Upon completion, the teacher will be presented with a schedule of upcoming tests, if any.** | | |
| **Relationships:**  Association: Teacher  Extends: View matching students in Search Students | | |
| **Normal flow:**   1. Teacher elects to view schedule 2. Teacher submits date range 3. System finds all scheduled tests in date range 4. System presents all scheduled tests in order | | |
| **Alternative/exceptional flows:** | | |

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| **Use case name:** Search Test / Topic / Parts | **ID: 2** | **Importance level:  Medium** |
| **Primary actor:** Teacher | **Use case type:** Essential, Overview | |
| **Stakeholders and interests**  Teacher – Wants to search for tests / topics / parts based on multiple critieria | | |
| **Brief description:**  Teacher searches for students dependent on multiple criteria such as name and completion rate. | | |
| **Preconditions:**  None  **Success Guarantee:**  Upon competition of this use case, the teacher will have a record of all tests, topics and parts which match the provided search criteria. | | |
| **Relationships:**  Association: Teacher | | |
| **Normal flow:**   1. Teacher has search criteria they want to apply 2. Teacher enters search criteria 3. System returns tests, topics and parts who match the given criteria 4. Teacher reviews returned test topic and part information | | |
| **Alternative/exceptional flows:**  3a. There are no test topic or part that match the criteria  1. System informs teacher that no test topic or part meet criteria  2. Teacher responds by:  2a. Entering new search criteria  1. System checks new criteria  2b. Teacher cancels search  1. System cancels search | | |

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| **Use case name: Manage Badges** | **ID: 5** | **Importance level:  High** |
| **Primary actor:** Teacher | **Use case type:** Essential, Overview | |
| **Stakeholders and interests** | | |
| **Brief description:** | | |
| **Preconditions:**  **Success Guarantee:** | | |
| **Relationships:**  Association: Teacher  Extends: View matching students in Search Students | | |
| **Normal flow:** | | |
| **Alternative/exceptional flows:** | | |

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| **Use case name: View New Badges** | **ID: 11** | **Importance level:  High** |
| **Primary actor:** Teacher | **Use case type:** Essential, Overview | |
| **Stakeholders and interests** | | |
| **Brief description:** | | |
| **Preconditions:**  **Success Guarantee:** | | |
| **Relationships:**  Association: Teacher  Extends: View matching students in Search Students | | |
| **Normal flow:** | | |
| **Alternative/exceptional flows:** | | |